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DRAFT Environmental Monitoring Plan

FINGER LAKES LPG STORAGE, LLC
EAST AND WEST BRINE PONDS
Town of Reading
Schuyler County, New York

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Town of Reading, New York

TABLE OF CONTENTS

1.0 INTRODUCTION 1
- 1.1 Purpose and Scope 1
- 1.2 Plan Organization 1
- 1.3 Site Description 2

2.0 GROUNDWATER QUALITY MONITORING PROGRAM 3
- 2.1 Overview 3
- 2.2 Environmental Monitoring Points 3
- 2.3 Monitoring Wells 3
  - 2.3.1 Hydrogeologic Flow Regimes 3
- 2.4 Underdrain System Discharge 5

3.0 EXISTING GROUNDWATER QUALITY MONITORING PROGRAM 6
- 3.1 Overview 6
- 3.2 Sampling Frequency and Analyses 6
- 3.3 Overview of Analytical Results 6

4.0 OPERATIONAL GROUNDWATER QUALITY MONITORING PROGRAM 10

4.0 OPERATIONAL GROUNDWATER QUALITY MONITORING PROGRAM 10
- 4.1 Overview 10
- 4.2 Sampling Schedule and Analysis 10
- 4.3 Comparison of Analytical Results 10
- 4.4 Reporting Requirements 10

5.0 CONTINGENCY GROUNDWATER QUALITY MONITORING PLAN 11
- 5.1 Overview 11
- 5.2 Method of Implementation 11

6.0 Site analytical plan 14
- 6.1 Overview 14

6.2 Sampling Protocol 14
6.2.1 General Sampling Procedures 14
6.2.2 Measuring the Water Level 16
6.2.3 Well Purging Procedures 16
6.2.4 Sample Collection 17
6.2.5 Field Analyses 19
6.2.6 Sample Handling and Chain of Custody Procedure 20
6.3 Decontamination Procedures 20
6.4 Monitoring Well Development 21
6.5 Disposal of Wastes 22
6.6 Monitoring Quality Assurance/Quality Control 23
6.6.1 General 23
6.6.2 Quality Control Checks 24
6.6.3 Sample Containers 25
6.6.4 Quality Control Sample Collection Procedures 27
6.6.5 Sample Preparation and Analytical Procedures 28
6.6.6 Laboratory Reporting and Data Validation 30

FIGURES

1 Vicinity Map
2 Environmental Monitoring Points – East Brine Pond
3 Environmental Monitoring Points – West Brine Pond

TABLES

1 Monitoring Well Summary – East Brine Pond
2 Monitoring Well Summary – West Brine Pond
3 Groundwater Sampling Results – East Brine Pond
4 Groundwater Sampling Results – West Brine Pond

APPENDICES

A Subsurface Exploration Logs
B Monitoring Well Construction Logs
C Table for Routine and Baseline Parameters
D Groundwater Services Field Log
E Full Analytical Results

EXHIBITS

1 Alpha Laboratory Quality Assurance Manual

1.0 INTRODUCTION

This document constitutes the Environmental Monitoring Plan (EMP) for the proposed Finger Lakes LPG Storage East and West Brine Ponds (the "Site") located in the Town of Reading, Schuyler County, New York (see Figure 1: Vicinity Map). This EMP has been prepared in accordance with 6 NYCRR Part 360-2(c) and the Finger Lakes LPG Storage, LLC Application for an Underground Gas Storage Permit, dated November 10, 2014.

1.1 Purpose and Scope

The purpose of the EMP is to describe the proposed Site monitoring, including the location of all environmental monitoring points, sampling schedule, analyses to be performed, statistical methods, and reporting requirements.

A water quality monitoring program has been developed as a component of the EMP. The water quality monitoring program established an existing water quality database prior to operation of the brine ponds as a benchmark for comparison of water quality data during operation of the brine ponds. The EMP also includes a contingency water quality monitoring plan that will describe actions to be taken in the event of a "significant increase" as defined in Section 4.3 where groundwater quality becomes impacted during operation of the brine ponds.

Comprehensive detail and schematics for the Site and proposed brine ponds are presented in the New York State Department of Environmental Conservation ("DEC" or "Department") approved Engineer's Report and Geotechnical Evaluation Report for Finger Lakes LPG Storage, LLC East and West Brine Ponds prepared by C.T. Male Associates Engineering, Surveying, Architecture & Landscape Architecture, D.P.C, (C.T. Male), dated September 10, 2012 and May 22, 2012, respectively.

1.2 Plan Organization

Section 1.0 of this EMP provides an introduction, discusses the purpose and scope of the EMP and provides a brief Site description. Section 2.0 provides an overview of the water quality monitoring plan and identifies the environmental monitoring points. Section 3.0 discusses the water quality monitoring program and presents existing water quality data that has been collected to date. Section 4.0 discusses the operational water

quality program. Section 5.0 presents the contingency water quality monitoring plan. Section 6.0 presents the Site analytical plan.

1.3 Site Description

There are two (2) brine ponds proposed for construction at locations which are separated by approximately one-half (1/2) mile. The East Brine Pond is located on the east side of Route 14, approximately 2,000 feet south of the intersection of NYS Routes 14 and 14A, approximately 2,500 feet west of Seneca Lake. The West Brine Pond is located approximately 1,500 feet west of the intersection of New York State Routes 14 and 14A. Both ponds are located in the Town of Reading, Schuyler County, New York. The Village of Watkins Glen is located approximately 3.2 miles southeast of the East Brine Pond and 3.8 miles to the southeast of the West Brine Pond. See Figure 1 for the locations of the brine ponds.

2.0 GROUNDWATER QUALITY MONITORING PROGRAM

2.1 Overview

The groundwater quality monitoring program is a component of the EMP and will involve the collection and laboratory analysis of groundwater samples from environmental monitoring points at strategic locations around the perimeter of the brine ponds. The EMP is designed to establish existing water quality for the Site prior to operation of the brine ponds as well as to monitor water quality during operation of the brine ponds, and potentially during a post-closure period which may be required by the Department if groundwater contamination is found to exist. The program will also include a contingency water quality monitoring plan that will be initiated in the event that groundwater quality is compromised during operation of the brine ponds.

2.2 Environmental Monitoring Points

The environmental monitoring points include groundwater monitoring wells for collection of groundwater samples from distinct groundwater bearing zones within the Site's subsurface, and outfall pipes for collection of groundwater samples from the brine ponds' underdrain groundwater collection systems. The environmental monitoring points are depicted on Figure 2 for the East Brine Pond and Figure 3 for the West Brine Pond.

2.3 Monitoring Wells

Thirty-seven (37) monitoring wells were installed in 2012 and 2013 around the perimeter of the East and West Brine Ponds. The subsurface exploration and monitoring well construction logs are presented in Appendices A and B. Figures 2 and 3 depict the locations of the monitoring wells relative to the proposed brine ponds and illustrate the groundwater bearing zones that the screened portions of the wells are straddling. Tables 1 and 2 in the Tables section of this document provide monitoring well construction summaries for the East and West Brine Ponds' monitoring well array.

2.3.1 Hydrogeologic Flow Regimes

Soil borings converted to monitoring wells were advanced at the perimeter of the East and West Brine Ponds to evaluate subsurface conditions and to assess the occurrence of

subsurface groundwater bearing zones (see Appendices A and B for logs). Based on the subsurface evaluation, there are three (3) distinct hydrogeologic flow regimes associated with the brine ponds.

Upper Hydrogeologic Flow Regime

The upper hydrogeologic flow regime consists of groundwater encountered in unconsolidated loose, weathered glacial till material situated atop dense, compact glacial till (i.e., Silt/Glacial Till Interface). The locations of monitoring wells whose screened portions straddle the upper hydrogeologic flow regime are highlighted in red in Figures 2 and 3. Monitoring well summaries are provided in Tables 1 and 2. As depicted in the figures, four (4) monitoring wells (MW2013-40 to MW2013-43) around the perimeter of the East Brine Pond and two (2) monitoring wells (MW2013-53 and MW2013-55) around the perimeter of the West Brine Pond are screened across this hydrogeologic flow regime. The monitoring wells were installed at depths that ranged from 12 to 20 feet beneath the ground surface (bgs) at the East Brine Pond, and 22 and 26.5 feet bgs at the West Brine Pond.

Lower Hydrogeologic Flow Regime

The lower hydrogeologic flow regime consists of groundwater encountered in weathered and competent shale bedrock situated beneath the dense, compact glacial till. As depicted in Figures 2 and 3 and Tables 1 and 2, the wells whose screened portions straddle bedrock are highlighted in blue on the figures and include 15 monitoring wells (MW2012-22 to MW2012-25, MW2012-30 to MW2012-33, and MW2013-44 to MW2013-50) around the perimeter of the East Brine Pond and 14 monitoring wells (MW2012-26 to MW2012-29, MW2012-34 to MW2012-37, MW2013-51, MW2013-52, MW2013-54A, and MW2013-56A to MW2013-58) around the perimeter of the West Brine Pond. The monitoring wells were installed at depths that ranged from 25 to 62 feet bgs at the East Brine Pond and 26 to 51.5 feet bgs at the West Brine Pond.

Isolated Sand Lens Hydrogeologic Flow Regime

The isolated sand lens hydrogeologic flow regime consists of groundwater encountered in an isolated sand deposit present beneath the eastern embankment of the West Brine Pond only. As depicted in Figure 3 and Table 2, the two (2) wells whose screened portions straddle the sand lense include monitoring wells MW2012-38 and MW2012-39.

The wells were installed at 10 feet bgs (MW2012-38) and 13 feet bgs (MW2012-39). These wells are highlighted in green in Figure 3.

2.4 Underdrain System Discharge

Figures 2 and 3 depict the proposed underdrain piping discharge point for each brine pond at concrete headwalls located to the northeast of each brine pond. Because the underdrain system will only become operational during operation of the brine ponds, groundwater sampling will be initiated during the start of operation of the brine ponds.

3.0 EXISTING GROUNDWATER QUALITY MONITORING PROGRAM

3.1 Overview

The purpose of the existing groundwater quality monitoring program is to establish a groundwater quality database prior to operation of the brine ponds and benchmark for comparison of operational groundwater quality data. This EMP includes data obtained from the existing groundwater quality monitoring points.

3.2 Sampling Frequency and Analyses

A total of five (5) rounds of groundwater samples have been collected from the monitoring wells at the East and West Brine Ponds. The four initial (4) quarterly rounds of groundwater samples were analyzed for Baseline Parameters promulgated at 6 NYCRR 360-2.11(d)(6) plus salinity (see table for Routine and Baseline Parameters in Appendix C). The fifth round of groundwater samples was analyzed for Routine Parameters, salinity and volatile organic compounds to further evaluate detections of trichloroethene, which was first encountered in groundwater in the monitoring wells sampled during the fourth quarterly round (March 2014).

The laboratory of record for existing groundwater sample analysis was Alpha Analytical (see laboratory's Quality Assurance Manual in Exhibit 1). Existing groundwater quality analytical results are presented in Tables 3 (East Brine Pond) and 4 (West Brine Pond) in the Tables section of this document. Tables 3 and 4 also depict the arithmetic mean, standard deviation and the mean plus 3 standard deviations for each parameter analyzed. The full analytical results are presented in Appendix E.

3.3 Overview of Analytical Results

<u>Filtered Metals</u>

As depicted in Tables 3 and 4, groundwater samples collected in June 2012 were analyzed for "filtered" metals only from monitoring wells MW2012-22 to MW2012-25 (East Pond) and MW2012-26 to MW2012-29 (West Pond) due to possible analytical matrix interference in analytical results as compared to the preceding quarterly sampling event conducted in May 2012. The analytical matrix interference is believed to have been caused by high suspended silt/clay content in the groundwater samples,

and attributed to the recent installation of the wells at that time. Due to this matrix interference, the May 2012 analytical results for metals, color and turbidity were not used in the calculation of the arithmetic mean and standard deviation.

Trichloroethene

Trichloroethene was initially detected in groundwater from monitoring wells sampled during the March 2014 groundwater sampling event (fourth quarterly round) and was detected above its NYSDEC groundwater standard of 5 ppb at East Pond monitoring wells MW2013-42 (15 ppb), MW2013-43 (10 ppb), MW2013-44 (13 ppb) and MW2013-45 (15 ppb), and West Pond monitoring wells MW2013-51 (5.6 ppb), MW2013-52 (11 ppb), MW2013-54A (29 ppb), MW2013-55 (27 ppb), MW2013-56A (27 ppb), MW2013-57 (20 ppb) and MW2013-58 (25 ppb). The detection of trichloroethene was believed to be an anomaly, as it was not detected in any previous groundwater sampling events, was not detected in the analytical laboratory's internal quality assurance/quality control (QA/QC) samples and was not detected in the field trip blanks submitted to the laboratory with the groundwater samples. As a means to evaluate that the sampling equipment was not contaminated, a Quality Control sample was collected of the same sampling equipment used during the March 2014 groundwater sampling event by passing tap water through equipment at the offices of C.T. Male Associates on April 8, 2014. Using a peristaltic pump, tap water was passed through new, factory sealed tubing and collected in laboratory provided containers and set on ice in a cooler. The sample was forwarded to the laboratory of record for analysis for volatile organic compounds (VOCs) by EPA Method 8260. Analytical results showed trichloroethene as non-detect. The analytical results are included in Appendix E.

A fifth round of groundwater sampling was conducted on all of the East and West Brine Pond monitoring wells in October 2014 for Routine Parameters, and in part to evaluate whether the trichloroethene detections obtained during the March 2014 sampling event were persistent in groundwater or if the detections were a one-time anomaly. To confirm proper field sampling techniques, quality control field (equipment) blanks were collected from all sampling equipment that came into contact with groundwater. The sampling equipment included water level meters, Geosquirt pumps, disposable bailer, and tubing used with the Geosquirt pumps and peristaltic pumps. Analytical results showed trichloroethene as non-detect for the quality control field blanks. Additionally, laboratory prepared trip blank samples submitted for analysis with the field samples

showed trichloroethene as non-detect. A review of analytical results of the laboratory's internal quality control method blank samples shows trichloroethene as non-detect.

The analytical results for the October 2014 sampling event are presented in Tables 3 and 4. As shown, trichloroethene was detected in several of the East Pond and West Pond monitoring wells. Table 3.3 summarizes and compares the analytical results for trichloroethene for the March and October 2014 sampling events.

Table 3.3 - TRICHLOROETHENE DETECTIONS

EAST POND			WEST POND		
MW ID	**March 2014**	**October 2014**	**MW ID**	**March 2014**	**October 2014**
MW-22	NS	ND	MW-26	NS	1.4
MW-23	NS	ND	MW-27	NS	2.3
MW-24	NS	ND	MW-28	NS	1.4
MW-25	NS	ND	MW-29	NS	3
MW-30	NS	**13**	MW-34	NS	3.3
MW-31	NS	**11**	MW-35A	NS	**6.3**
MW-32	NS	ND	MW-36	NS	1.3
MW-33	NS	ND	MW-37	NS	1.4
MW-40	0.41J	**6.8**	MW-38	NS	NS
MW-41	1.1	ND	MW-39	NS	2.3
MW-42	**15**	ND	MW-51	**5.6**	2.5
MW-43	**10**	ND	MW-52	**11**	**5.5**
MW-44	**13**	ND	MW-53	ND	3.2
MW-45	**15**	ND	MW-54A	**29**	**5.2**
MW-46	0.82	ND	MW-55	**27**	1.2
MW-47	0.73	ND	MW-56A	**27**	1
MW-48	0.31J	**13**	MW-57	**20**	1.9
MW-49	ND	ND	MW-58	**25**	**10**
MW-50	0.59	ND			

-NS denotes Not Sampled
-ND denotes Non Detected above method detection limit
-J denotes estimated value
-Trichloroethene detections expressed in ug/l or parts per billion (ppb)
-Trichloroethene detections in bold exceed the NYSDEC groundwater standard of 5 ppb.
-Highlighted monitoring well ID's were observed to have been possibly tampered with in the field during the October 2014 sampling event.

As depicted in Table 3.3, trichloroethene was detected in four monitoring wells at the northern and northeastern portions of the East Pond and in all sampled monitoring

wells at the West Pond. Of interest, trichloroethene detections obtained from the March 2014 sampling event at East Pond monitoring wells MW-41 to MW-47 and MW-50 were non-detect during the October 2014 sampling event. Also, with the exception of MW-53, trichloroethene detections at the West Pond monitoring wells were less persistent during the October 2014 sampling event versus the March 2014 sampling event.

Salinity

Salinity was not detected above the laboratory's method detection limit in any of the wells with the exception of monitoring wells MW-2012-23, MW2013-44, MW2013-49 and MW2013-50 at the East Brine Pond only. These wells are located adjacent to NYS Route 14 and the salinity detections may be attributed to the application of road salt.

4.0 OPERATIONAL GROUNDWATER QUALITY MONITORING PROGRAM

4.1 Overview

Operational groundwater quality monitoring will be conducted during operation of the East and West Brine Ponds. The program will include the collection of groundwater samples for laboratory analysis from the monitoring wells and underdrain outfall pipes identified on Figures 2 and 3.

4.2 Sampling Schedule and Analysis

Groundwater sampling will be conducted quarterly (four times per year) during operation of the brine ponds. The laboratory analysis will be for Routine Parameters promulgated at 6 NYCRR 360-2.11(d)(6) plus salinity (see Table in Appendix C).

4.3 Comparison of Analytical Results

The analytical results for each analyzed parameter will be compared to the arithmetic mean derived for its corresponding parameter from the existing groundwater quality database in Tables 3 and 4.

A "significant increase" in the concentration of operational water quality parameters in comparison to the existing water quality database will be deemed to have occurred if a parameter has exceeded the arithmetic mean of the existing water quality parameter by more than three (3) standard deviations and/or if the operational water quality parameter exceeds both the arithmetic mean for the existing parameter and applicable groundwater standards promulgated at 6 NYCRR Parts 701, 702 or 703. The groundwater standards are identified Tables 3 and 4. In the event of a significant increase, the contingency groundwater quality monitoring plan will be initiated, as described in Section 5.0 of this EMP.

4.4 Reporting Requirements

Unless more rapid reporting is required to address an imminent environmental or public health concern, analytical data will be reported to the Department within 90 days following each sample collection event.

5.0 CONTINGENCY GROUNDWATER QUALITY MONITORING PLAN

5.1 Overview

The contingency groundwater quality monitoring plan describes actions that will be undertaken in the event that a determination is made that there is a significant increase in operational water quality levels in comparison to the existing water quality database for one (1) or more parameters at any of the sampled groundwater monitoring wells and/or underdrain outfall pipes.

5.2 Method of Implementation

The contingency groundwater monitoring plan will be implemented as follows.

- Upon determination that there is a significant increase, the Department will be notified within 14 days indicating which parameters have shown significant increases from the existing water quality levels.

- A minimum of one (1) sample from each monitoring well (upgradient and downgradient) and underdrains will be collected and again analyzed for routine parameters during the next scheduled quarterly groundwater sampling event. If any of the related parameters are detected in the downgradient wells or underdrains as a result of the analysis, a minimum of two (2) independent samples from each well (upgradient and downgradient) and underdrains will be collected within 30 days of obtaining the results of the routine parameter analysis. These samples will be collected within two (2) weeks of each other and compared to applicable existing water quality values.

- If a significant increase in the existing water quality values in the upgradient wells is indicated by the additional sampling described above, the existing water quality arithmetic mean values for these parameters will be revised to become the new arithmetic mean of the results for each parameter which analyses were performed in the upgradient wells within each hydrogeologic flow regime.

- Within 90 days of receipt of analytical results for the above sampling, a demonstration may be made to the Department that the contamination or the significant increase resulted from error in sampling, analysis, or natural variation

in groundwater quality. A written report documenting the demonstration will be submitted to the Department for approval. If a successful demonstration is made, documented and approved by the Department, operational water quality monitoring will continue as specified in the EMP.

- If, after 90 days, a successful demonstration is not made, the Department will be notified in writing within 14 days. Such notice will also include a proposed schedule for an investigation of the double-liner system performance, potentially including the analysis of the liquid in the pond leak detection system and the underdrain below the brine ponds, to identify potential leakage from the double-lined brine pond(s) to confirm the source of contamination. Upon identification of the pond being the contaminating source, a corrective measures report will be submitted to detail measures and a schedule to either pursue necessary repairs or to pursue closure; such corrective measures report will be subject to the Department's approval. All inspections and repairs will be certified by a professional engineer licensed to practice in the State of New York. The written engineering certification report will be submitted to the Department for approval within 45 days of the repairs.

- In addition to investigation of the integrity of the brine pond system(s), a schedule will be submitted to the Department for approval to conduct the following tasks:

    - Characterize the extent of contamination by installing additional monitoring wells and evaluating surface waters as deemed necessary by the Department;

    - Install at least one (1) additional monitoring well at the facility boundary in the direction of contamination migration, and sample the well at the same frequency and for the same routine parameters as the operational water quality analysis;

    - Notify all persons who own the land or reside on the land that is directly over any part of the plume of contamination if contaminants have migrated off-Site as indicated by sampling of the wells; and

    - Submit a corrective measures report acceptable to the Department that includes a corrective measures assessment identifying possible corrective

measures to bring the facility back into compliance with applicable water quality standards or to pursue closure. The corrective measures will be implemented in accordance with the report and schedule as approved by the Department.

6.0 SITE ANALYTICAL PLAN

6.1 Overview

This Site Analytical Plan has been developed in accordance with 6 NYCRR 360-2.11(d). The Data Quality Objectives (DQOs) for the project will be to obtain laboratory analytical data of sufficient quantity, quality and completeness to establish existing water quality for the Site prior to operation of the brine ponds and operational water quality during operation of the brine ponds and potentially during a post-closure period which may be required by the Department if groundwater contamination is found to exist.

Laboratory analyses of groundwater samples will be performed by a laboratory currently certified under the appropriate approval categories by the New York State Department of Health's Environmental Laboratory Approval Program (ELAP). Groundwater samples will not be filtered, unless otherwise approved by the Department. If, due to Site conditions, turbidity cannot be reduced to 50 NTUs or less by good sampling techniques or well redevelopment, the Department may approve collection of both filtered and unfiltered samples for analyses of the inorganic parameters. All other analyses required will be on unfiltered samples.

The existing conditions groundwater samples have been analyzed for the Part 360 - Baseline parameters plus salinity. The operational groundwater samples will be analyzed for the Part 360 Routine parameters plus salinity. The lists of Baseline and Routine parameters are those in the Water Quality Analysis Tables of the 6 NYCRR Part 360 regulations and presented above in Sections 3.2 and 4.2, respectively. The laboratory analyses will be performed in accordance with the NYSDEC Analytical Services Protocol (ASP, revised July 2005 or subsequent revision).

6.2 Sampling Protocol

6.2.1 General Sampling Procedures

During groundwater sampling it is important to follow acceptable protocol during the collection and transportation of groundwater samples. This minimizes the potential for sample variation from well to well and event to event due to sampling and handling techniques.

Prior to sampling, the water level in the well will be measured and the well will be purged and allowed to recover to at least 90% of static conditions. The wells will be purged with bailers, peristaltic pump or submersible pump depending on the depth of the monitoring well. Groundwater samples will be taken for field and laboratory analyses. The field parameters to be measured are pH, temperature, turbidity and specific conductance. All pertinent groundwater sampling information will be recorded on a Groundwater Services Field Log form (refer to Appendix D for blank form). A separate log will be completed for each monitoring well sampled. The well sampling log will serve as the inspection form for the groundwater monitoring well network. Logs will be dated and include the name of the person making the entries, and will be submitted to the project manager for inclusion in the project files. The following information will be included on the log forms:

1. Project name and location.

2. Date and times.

3. Monitoring well identification number.

4. Bailer or pump type and identification number, if any.

5. Well purging procedure and data.

6. Physical characteristics of samples (i.e., color, odor, etc.).

7. Field analyses results.

8. Name of sampler(s).

9. Recovery times of wells.

10. Any additional pertinent observations/information including well integrity.

The sample containers and preservatives to be used for the sampling will conform to NYSDEC ASP (revised July 2005 or subsequent revision) requirements and analytical procedures. Only new pre-cleaned laboratory provided sample containers and caps will be used for sample collection/analyses. All sample containers required to be fixed with a preservative will be prepared by the laboratory before each sampling event.

Sample labels will be prepared prior to sampling and affixed to the sample containers. The client, project name, Site location, matrix, sample type (grab/composite), preservative and laboratory analyses to be performed will be recorded on the sample labels prior to sampling. The sample location (i.e., monitoring well ID), date, sampler's initials and time will be filled out on the sample label at the time of sampling.

Upon arrival at the sampling location, the well will be observed for any damage. Clean polyethylene sheeting will be placed around the well to protect purging and sampling equipment from contamination, and a hole cut in the poly to access the well. The cover of the stick-up protective casing will be cleared of any debris/vegetation and unlocked.

6.2.2 Measuring the Water Level

Prior to sampling and purging, static water heights will be measured using a water level indicator to determine the standing water column height. When necessary for groundwater mapping purposes, a full round of water levels will be taken prior to initiating the water sampling. The water column height and depth of the well are used to calculate the well water volume. Non-vented well caps will be removed for a period of ten minutes to allow the water column to reach static conditions prior to taking the water level measurements.

The water levels will be measured from the surveyed reference point to the nearest 0.01 foot. The water depth levels and reference elevations determined from the monitoring well survey will be recorded on a Water Level Record form and the water table elevations calculated.

To avoid possible cross contamination of the wells, the water level indicator will be decontaminated prior to and following the water measurement of individual wells. The water level indicator will be decontaminated with a non-phosphate detergent wash and a tap water rinse.

6.2.3 Well Purging Procedures

Prior to sampling of the groundwater, it is necessary to purge the wells. Purging of the wells allows for a representative sample to be taken from the screened interval of the well by removing stagnant water from the well.

Three to five well volumes of the standing water will be removed from the well, or purged dry in the event the monitoring well recovers very slowly (greater than 2 hours

for recharge to 90% of the pre-purge static water level). The volume of standing water in the well is calculated by subtracting the water level height from the well depth measurement, and multiplying this value by a conversion factor. The conversion factor is based on the well casing diameter and converts linear feet of water into gallons.

New clean polyethylene bailers, a peristaltic pump with new clean disposable polyethylene tubing, or a field-cleaned submersible pump (i.e., GeoSquirt) with new clean disposable tubing will be used to purge the wells. The purging and sampling methods used will be documented on the Groundwater Services Field Log form. When purging and sampling with a bailer, a new clean piece of polypropylene rope will be used at each individual well. Physical observations of the purge water will be noted and recorded on the Groundwater Services Field Log form. The actual quantity of purge water removed from the well will be measured by using a bucket graduated in gallons, and the volume will be recorded. Once purging is complete, the bailer or tubing will be removed from the well and placed on the clean polyethylene sheeting adjacent to the well until completion of the groundwater sampling.

The purge water from the monitoring wells will be discharged to the ground surrounding the well and allowed to infiltrate the soil, unless a sheen or non-aqueous phase liquid is observed. If a sheen or non-aqueous phase liquid is observed, then the purge water will be collected and placed in NYSDOT approved 55-gallon drum(s) for subsequent characterization and off-Site disposal at a permitted facility.

6.2.4 Sample Collection

Prior to sample collection, the wells will be allowed to recover to at least 90% of their initial static water level. Slow recharging wells will be allowed to recover for a period of at least two hours. Recovery times and water depths will be recorded on the Groundwater Services Field Log form.

The sample will be collected using a new clean disposable bailer or a low flow pump. A new pair of clean disposable gloves will be used to handle the sampling equipment and containers, and collect the samples at each sampling location.

The disposable bailer will be lowered slowly into the well to minimize the aeration of the samples. Volatile samples will be collected first, followed by field parameters and then in decreasing order of the volatility of the parameters being analyzed.

In order to ensure the integrity of samples, sample containers must be filled properly. The following sections contain general procedures for sampling and specific procedures for sampling volatile organic compounds. Care shall be taken in sampling to assure that analytical results represent the actual sample composition.

General Sampling:

1. Do not remove caps until the actual sampling time and only long enough to fill the container.

2. Identify every container by filling out the label with all the required data.

3. Fill all containers completely without overfilling.

4. Some bottles may contain a fixative which should not be rinsed out of the bottle. Read the sample label treatment and fixative section to determine if a preservative/fixative has been added. Be careful not to contact fixatives with skin or clothing. If this should occur, rinse liberally with water and seek medical attention.

5. After the sample is taken and sealed, wipe the container with a paper towel and place the container in a cooler with ice packs or bagged ice, to maintain the cooler at 4°C.

6. Complete the Groundwater Services Field Log and Chain of Custody Record forms.

7. Deliver or ship samples to the laboratory within 24 hours or as soon as possible, but not exceeding 48 hours.

Sampling for Volatile Organic Compounds:

1. Samples are to be collected in glass containers having a total volume in excess of 40 ml with open-top screw caps with Teflon-faced silicone septa. Sample containers could have hydrochloric acid (HCL) added to them as a preservative. This preservative must not be rinsed out.

2. A transport blank will be prepared by the laboratory from organic-free water and carried through the sampling and handling procedure. It will serve as a check for transport and container contamination.

3. Fill sample container slowly to minimize aeration of the sample, until a curved meniscus is observed over the bottle rim.

4. Float the septa, Teflon™ side down on the liquid meniscus. The Teflon™ side is the thin layer observed when viewing the septum from the side horizontally.

5. Carefully set on septum, expelling excess sample and being careful to exclude air. Then screw open-top cap down. Using the index finger to push the center of the cap downward usually assists in expelling excess sample and air.

6. Check for a good seal by inverting bottle and tapping and checking for visible air bubbles. If air bubbles are visible or there is a bad seal, remove cap and add additional sample and repeat steps 4 to 6.

7. Groundwater samples for volatile analysis may be taken in duplicate, triplicate or as required by the analytical laboratory.

At completion of the sampling, the well cap will be put in place, closed, and the cover to the protective stick-up casing will be locked in place. The rope, gloves, tubing, bailers and sheeting used to sample the well will be managed as solid waste.

6.2.5 Field Analyses

The field analyses include pH, temperature, specific conductivity and turbidity. The field analyses will be measured in the field since these constituents change during storage. A minimum 40 ml sample will be collected and placed in clean polyethylene or glass containers for field analysis, or in a new clean disposable plastic cup. The containers will be covered if the measurements are not recorded immediately. All field analyses readings will be recorded on a Groundwater Services Field Log form.

The conductivity, pH and temperature of a sample are measured with a single portable unit capable of measuring all three parameters. The portable unit automatically adjusts to compensate for the temperature of the sample. The temperature, pH and conductivity are displayed on the unit and will be recorded when the instrument reading stabilizes for each parameter.

The turbidity of the field samples is measured with a turbidity meter. A portion of the sample will be poured into the instrument's dedicated VOA vial. The outside of the

VOA vial is wiped with a paper towel and inserted in the instrument. The reading is recorded upon stabilization.

All of the field instrumentation will be calibrated to known standards prior to start of field activities in accordance with the manufacturer's recommendations.

6.2.6 Sample Handling and Chain of Custody Procedure

A chain of custody record will be completed by the sampler in the field. The sampler will be responsible for retaining possession of the samples until they are delivered to the laboratory, to a courier or overnight common carrier for shipment to the laboratory. When the samples are released from the custody of the sampling personnel, the chain of custody will be signed by both relinquishing and receiving parties with the date and time indicated. A copy of the chain of custody form will be retained by the sampler for inclusion in the project files and the original form will accompany the shipment. The chain of custody will then be signed by the relinquishing party and receiving laboratory personnel when the samples are received at the laboratory.

If samples are shipped, the chain of custody form will be placed in the cooler, a custody seal signed and dated by the sampler will be affixed to the cooler, and the cooler will be securely wrapped with clear tape to protect it from tampering.

6.3 Decontamination Procedures

Well purging and sampling equipment including water level indicator, field parameter meters, submersible pump, etc. will be cleaned prior to use, in between each sample/measurement and at completion of the work using the following procedures:

1. Remove any excess material remaining on the equipment, as applicable.

2. Prepare a solution of tap water and non-phosphate detergent in a wash bucket, and scrub the equipment with a brush to remove any adhering particles. For the pump, pass decontamination water through the pump.

3. Rinse the equipment with copious amounts of tap water.

4. Rinse the equipment with deionized or distilled water.

5. Place clean equipment on clean polyethylene sheeting, or wrap in aluminum foil if the equipment will not be immediately used for sampling.

6. New disposable gloves will be worn when cleaning and handling the equipment to avoid contamination.

7. The water in the wash and rinse buckets will be changed frequently to avoid cross contamination.

6.4 Monitoring Well Development

The following describes monitoring well development procedures utilized for the existing monitoring wells and for any additional wells that may be required to be installed.

Development of monitoring wells is conducted to remove sediments (weathered rock, silt, clay, and fine sand) from the well screen, well bottom, sand pack, and formation. This will increase the hydraulic conductivity immediately around the well, thus increasing the well yield for sampling. Just as importantly, it will decrease turbidity that could potentially interfere with chemical analysis of the groundwater samples. The wells are developed by surging, bailing, and pumping. The back and forth flow created within the screened interval dislodges fine sediments in the formation, sand pack and screen, suspending fines so they can be removed.

Reasonable means are employed to develop the wells to a turbidity of 50 NTUs or less, however, if the Site soils are composed of a high percentage of silt and/or clay, a turbidity value of 50 NTU or less may not be achieved.

The wells are surged using a new clean disposable polyethylene bailer attached to new polypropylene rope. The surging is accomplished by rapidly raising and lowering the bailer within the screened interval, and then utilizing the bailer to remove sediment and silt within the water column. If the over pumping method is utilized, new clean polyethylene tubing attached to a peristaltic pump or a field-cleaned submersible pump (i.e., GeoSquirt) is oscillated within the screened interval of the monitoring well while water is removed with the pump. The bailer and/or peristaltic pump is used to obtain an initial water sample to check the turbidity, pH, specific conductivity and temperature of the well water prior to the start of well development, and during well development to monitor whether the well is stabilizing or not. The color, odor, and

sand and silt content of the removed water is also noted. Silt and sediment are removed from the bottom of the well utilizing the bailer and/or pump.

6.5 Disposal of Wastes

Wastes generated from work on the Site will consist of decontamination water, monitoring well development water, groundwater sampling purge water, disposable bailers, polypropylene rope, polyethylene tubing, polyethylene sheeting, and spent personal protective equipment. The wastes will be handled and disposed of as follows.

Decontamination water generated from cleaning of equipment that comes into contact with ground or underdrain water will be discharged to the ground surface a minimum of five (5) feet from the sample collection point and allowed to infiltrate the soil. If the decontamination water appears impacted (i.e., sheen or non-aqueous phase liquid), it will be collected and stored in NYSDOT approved 55-gallon drums. Each drum will be affixed with a non-hazardous waste label that will be completed with owner and Site information, and the contents of the drum. The well(s) designation for the contained development water will also be clearly illustrated on the label.

The purge water from the monitoring wells during groundwater sampling will be discharged to the ground surrounding the well and allowed to infiltrate the soil, unless a sheen or non-aqueous phase liquid is observed. If a sheen or non-aqueous phase liquid is observed, then the purge water will be collected and placed in NYSDOT approved 55-gallon drums, and the drums labeled as described previously.

Personal protective equipment (PPE) and expendable materials to be used during the completion of the field work tasks will likely include gloves, paper towels, plastic sheeting, and disposable sampling equipment (bailers, tubing, rope, etc.). These materials will be managed and properly disposed of off-Site as solid waste.

Waste characterization profiles will be completed for the drummed wastes and submitted to the treatment, storage or disposal facility (TSDF), as applicable, for processing. A copy of the TSDF's operating permit and the transporters' 6 NYCRR Part 364 transporter permit will be obtained and reviewed prior to any shipments of waste from the Site to document the appropriate permits are in place prior to waste being removed from the Site.

The drummed wastes generated will be removed from the Site, transported by a 6 NYCRR Part 364 permitted waste transporter and disposed of at a TSDF permitted to accept the wastes being delivered. A waste manifest or bill of lading will be utilized for each shipment of waste.

6.6 Monitoring Quality Assurance/Quality Control

6.6.1 General

All sampling and analyses during operational groundwater sampling will be performed following the quality assurance/quality control procedures described in this Section which include:

- Quality Control Checks:
    - Field QC samples (i.e., trip blanks, replicate/duplicate samples, equipment blanks, matrix spike, matrix spike duplicates) will be collected as necessary.
    - Laboratory QC and checks.
- Sampling Program:
    - Sample containers will be properly washed, decontaminated, and appropriate preservative will be added (if applicable) prior to their use by the analytical laboratory. Containers with preservative will be tagged as such.
- Quality Control Sample Collection Procedures.
- Calibration Procedures:
    - All field analytical equipment will be calibrated immediately prior to each day's use. Calibration procedures will conform to manufacturer's standard instructions.

- The laboratory will follow all calibration procedures and schedules as specified in USEPA SW-846 and subsequent updates that apply to the instruments used for the analytical methods.

- Analytical Procedures:
  - Sample holding times will be in accordance with the NYSDEC ASP requirements.
  - Laboratory reporting will be in accordance with Part 360 and NYSDEC ASP requirements.

The overall quality assurance/quality control of the sampling activities will include project management, coordination, and scheduling of in-house activities and subcontractors. The laboratory will be certified by the NYSDOH Environmental Laboratory Approval Program (ELAP).

6.6.2 Quality Control Checks

To monitor and document the integrity of such factors as sample variability, sampling equipment cleanliness, sampling technique, analytical reproducibility and sample handling which can affect data quality, several field quality control checks will be implemented during operational groundwater sampling. These will include taking equipment blanks after the sampling equipment has been decontaminated to check for cross contamination and equipment cleanliness; taking field duplicate samples to monitor analytical precision/reproducibility and sampling technique; and using Site specific samples for matrix spike/matrix spike duplicate (MS/MSD) analysis by the laboratory. The MS/MSD samples are used to measure percent recoveries and the relative percent difference, and used to determine if matrix interference affected the method. Transport blanks will also be prepared when VOCs analysis is to be performed. The transport blanks are taken to monitor whether the samples have been contaminated during transport, as a result of handling in the field, during shipment or during storage in the laboratory.

For this project the field Quality Control (QC) checks during operational groundwater sampling will consist of one equipment blank (only if new disposable sampling equipment is not utilized), one field duplicate sample, and one matrix spike/matrix

spike duplicate during sampling activities for every 20 groundwater samples. A transport blank will also be prepared for each sample set to be submitted for volatile analyses. The QC sample collection procedures are described in Section 6.6.4.

Laboratory quality control checks will be those specified in EPA Methods or in the NYSDEC ASP (revised July 2005 or subsequent revision) for the analytical method performed and could consist of some of the following:

- Blanks (method, preparation),
- Initial and continuing calibrations,
- Surrogate spikes,
- Matrix spikes/matrix spike duplicates,
- Duplicate samples, and
- Control samples/matrix spike blanks.

The laboratory will be responsible for complying with appropriate standards and certifications of the selected EPA method and ASP requirements. The laboratory quality control acceptance criteria are method specific and it will be the laboratory's responsibility to meet ASP criteria.

6.6.3 Sample Containers

Only new pre-cleaned laboratory provided sample containers and caps will be used for sample collection/analyses. The container type, cap type and preservative requirements for the analytical parameters (groundwater and equipment blank water sample, when applicable) to be analyzed are summarized in Table 6.6.3-1.

Table 6.6.3-1
Analytical Requirements for Containers and Preservatives for Groundwater Samples

PARAMETER	CONTAINER	TOP	PRESERVATIVE	COMMENTS
Part 360 Baseline VOCs EPA 8260B	2-40 ml Glass Vials	Teflon Lined Septum	Cool, 4°C HCL to pH <2 (Preserved)	None
Part 360 Metals, Except Mercury EPA 6010B	250 ml or 500 ml Plastic or Glass	Poly	HNO_3 to pH <2	None
Mercury EPA 7470	250 ml or 500 ml Plastic or Glass	Poly	HNO_3 to pH <2	None
Total Cyanide	250 or 500 ml Plastic or Glass	Poly	NaOH to pH >12	Ascorbic, 0.6g
Alkalinity	250 ml or 500 ml Plastic or Glass	Poly	Cool, 4°C	Fill Completely
Ammonia	500 ml Plastic or Glass	Poly	H_2SO_4 to pH <2	None
Biochemical Oxygen Demand	500 ml Plastic or Glass	Poly	Cool, 4°C	None
Boron	250 ml or 500 ml Plastic or Glass	Poly	HNO_3 to pH <2	None
Bromide	500 ml Plastic or Glass	Poly	Cool, 4°C	None
Chloride	500 ml Plastic or Glass	Poly	Cool, 4°C	None
Color	500 ml Plastic or Glass	Poly	Cool, 4°C	None
Chemical Oxygen Demand	2-40 ml Glass Vials	Teflon Lined	H_2SO_4 to pH <2, Cool	None
Total Dissolved Solids	500 ml Plastic	Poly	Cool, 4°C	None
Hardness	250 ml or 500 ml Plastic or Glass	Poly	HNO_3 to pH <2	None
Hexavalent Chromium	250 ml Plastic or Glass	Poly	Cool, 4°C	None
Nitrate	250 ml Plastic or Glass	Poly	Cool, 4°C H_2SO_4 to pH <2	Chlorinated Non-Chlorinated

PARAMETER	CONTAINER	TOP	PRESERVATIVE	COMMENTS
Phenols	1L Glass	Poly	Cool, 4°C H_2SO_4 to pH <2	None
Sulfate	250 ml Plastic or Glass	Poly	Cool, 4°C	None
Total Kjeldahl Nitrogen	500 ml Plastic or Glass	Poly	H_2SO_4 to pH <2	None
Total Organic Carbon	2-40 ml Glass Vials	Teflon Lined	H_3PO_4 to pH <2	None
Turbidity	250 ml Plastic or Glass	Poly	Cool, 4°C	None
Salinity	250 ml Poly	Poly	Cool, 4°C	None

6.6.4 Quality Control Sample Collection Procedures

Quality control samples include equipment blanks, field duplicate samples, matrix spike/matrix spike duplicate samples and transport blank for the groundwater samples. The following paragraphs describe how these samples are prepared and collected.

Equipment Blank: Pour laboratory provided deionized or distilled water into the bailer and then into the sample container(s). If a peristaltic pump is utilized to collect the samples, place the tubing in the container of laboratory provided deionized or distilled water and transfer the water into the sample container with the peristaltic pump. The equipment blank will be analyzed for the same parameters as the project samples.

Field Duplicate: A field duplicate sample is an additional sample collected from the same location as the original sample. Duplicate samples are collected simultaneously using identical procedures, but placing the samples in separate containers. The groundwater field duplicate samples for analytes other than volatile organic compounds will be taken by splitting the collected groundwater between both sets of containers (sample and duplicate containers) until the containers are filled. The duplicate groundwater sample for VOCs analysis is typically collected in duplicate or triplicate, so this procedure will be repeated two or three times.

The field duplicates will be analyzed for the same parameters as the original sample, yet the sample designation is "blind" so that the laboratory can't determine which sample it is a duplicate of.

Matrix Spike/Matrix Spike Duplicate: These samples are designated from Site specific groundwater samples collected whereby the laboratory spikes the sample with a known concentration. The MS/MSD samples will be collected following the same procedures as the field duplicate samples.

Transport Blank: The transport blanks for the groundwater samples are prepared in the laboratory when the sample containers are prepared. Transport blanks will be prepared by filling 40 ml glass containers (with Teflon™ lined septum) with organic-free water. These containers will travel unopened with the sample containers and be analyzed for the same volatile constituents as the samples being submitted.

The groundwater field duplicate sample will be identified as GWFD01. The groundwater equipment blank will be identified as GWEB01. The location where the field duplicates are collected and where the equipment blank is collected before will be identified in the sampling log. The MS/MSD samples will be labeled as required for the sample location except that in the comment section of the chain of custody record shall read "use this sample for the MS/MSD" or equal. The transport blank will be identified as Transport Blank followed by the month/day/year.

6.6.5 Sample Preparation and Analytical Procedures

The analytical parameters, analysis methods, acceptable holding times and required method detection limits are presented in Table 6.6.5-1. The analytical methods specified reflect the requirements of the NYSDEC ASP (revised July 2005) and Part 360.

Table 6.6.5-1
Analytical Methods and Requirements

ANALYTICAL PARAMETERS	SAMPLE ANALYSIS METHOD	HOLDING TIMES (1)	PRACTICAL QUANTITATION LIMIT (2)
Part 360 Baseline Parameters (Water):			
VOCs	EPA 8260B	10 Days Preserved (HCL to pH <2)	1 - 10 ug/l
Baseline Metals (3)	EPA 200.7/EPA 6010B	180 Days	3 - 5,000 ug/l
Mercury	EPA 245.1/EPA 7470	26 Days	0.2 ug/l

ANALYTICAL PARAMETERS	SAMPLE ANALYSIS METHOD	HOLDING TIMES (1)	PRACTICAL QUANTITATION LIMIT (2)
Hexavalent Chromium	EPA 7196	24 Hours	0.010 mg/l
Cyanide	EPA 335.4/EPA9012B	12 Days	10 ug/l
Total Kjeldahl Nitrogen	EPA 351.3/351.2	26 Days	0.5 mg/l
Ammonia	EPA 350.1/SM 4500	26 Days	0.1 mg/l
Bromide	EPA 300.0	26 Days	0.1 mg/l
Nitrate	EPA 353.2/300.0	24 Hours	0.1 mg/l
Chemical Oxygen Demand	EPA 410.1/410.4/ SM5220	26 Days	10 mg/l
Biochemical Oxygen Demand	EPA 405.1/SM5210B	24 Hours	2 mg/l
Total Organic Carbon	EPA 415.1/9060/SM5310	26 Days	1 mg/l
Total Dissolved Solids	EPA 160.1/SM2540C	7 Days	10 mg/l
Sulfate	EPA 375.4/300.0	26 Days	1 mg/l
Alkalinity	EPA 310.1/SM2820B	12 Days	2 mg/l
Phenols	EPA 420.1/420.4	26 Days	0.005 mg/l
Chloride	EPA 325.3/300.0	26 Days	5 mg/l
Total Hardness as $CaCO_3$	EPA 130.2/SM2340B	6 Months	0.5 mg/l
Color	EPA 110.2/SM2120B	24 Hours	5 CPU
Boron	EPA 6010B	6 Months	0.05 mg/l
Turbidity	EPA 180.1	24 Hours	0.05 NTU
Salinity	EPA 2520B	8 days	2.0 SU
Part 360 Routine Parameters (Water):			
Routine Metals (3)	EPA 200.7/EPA 6010B	180 Days	3 - 5,000 ug/l
Total Kjeldahl Nitrogen	EPA 351.3/351.2	26 Days	0.5 mg/l
Ammonia	EPA 350.1/SM 4500	26 Days	0.1 mg/l
Bromide	EPA 300.0	26 Days	0.1 mg/l
Nitrate	EPA 353.2/300.0	24 Hours	0.1 mg/l
Chemical Oxygen Demand	EPA 410.1/410.4/ SM5220	26 Days	10 mg/l
Biochemical Oxygen	EPA 405.1/SM5210B	24 Hours	2 mg/l

ANALYTICAL PARAMETERS	SAMPLE ANALYSIS METHOD	HOLDING TIMES (1)	PRACTICAL QUANTITATION LIMIT (2)
Demand			
Total Organic Carbon	EPA 415.1/9060/SM5310	26 Days	1 mg/l
Total Dissolved Solids	EPA 160.1/SM2540C	7 Days	10 mg/l
Sulfate	EPA 375.4/300.0	26 Days	1 mg/l
Alkalinity	EPA 310.1/SM2820B	12 Days	2 mg/l
Phenols	EPA 420.1/420.4	26 Days	0.005 mg/l
Chloride	EPA 325.3/300.0	26 Days	5 mg/l
Total Hardness as $CaCO_3$	EPA 130.2/SM2340B	6 Months	0.5 mg/l
Turbidity	EPA 180.1	24 Hours	0.05 NTU
Salinity	EPA 2520B	8 days	2.0 SU

(1) Holding times are in accordance with NYSDEC ASP (revised July 2005) requirements. Holding times are relative to the verifiable time of receipt at the laboratory.

(2) The listed detection limits are Practical Quantitation Limits (PQLs). The Method Detection Limit (MDL) is the best possible detection. Laboratories report the Practical Quantitation Limit, which is generally 4 times the MDL. The PQL is the lowest concentration analytes can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. Efforts should be made to obtain the best detection possible when selecting a laboratory. When the guidance value or standard is below the detection limit, achieving the detection limit will be considered acceptable for meeting the guidance value or standard.

(3) The Part 360 routine metals include cadmium, calcium, iron, lead, magnesium, manganese, potassium and sodium. The Part 360 baseline metals include the routine metals plus aluminum, antimony, arsenic, barium, beryllium, chromium, hexavalent chromium, cobalt, copper, cyanide, mercury, nickel, selenium, silver, thallium, vanadium and zinc.

Where matrix interference is noted, analytical clean-ups will be required to be performed by the laboratory following the procedures specified in SW-846 or the NYSDEC ASP, as applicable. In general, samples shall not be diluted more than 1 to 5.

6.6.6 Laboratory Reporting and Data Validation

The laboratory will prepare ASP Category A data deliverable packages for the laborarory analyses of the groundwater samples collected during the operational sampling events for the Part 360 Baseline and/or Routine parameters. They will include Sample Data Summary Package, sample preparation and analysis forms,

analytical results and quality control data deliverables as required by NYSDEC ASP (revised June 2005 or subsequent revision).

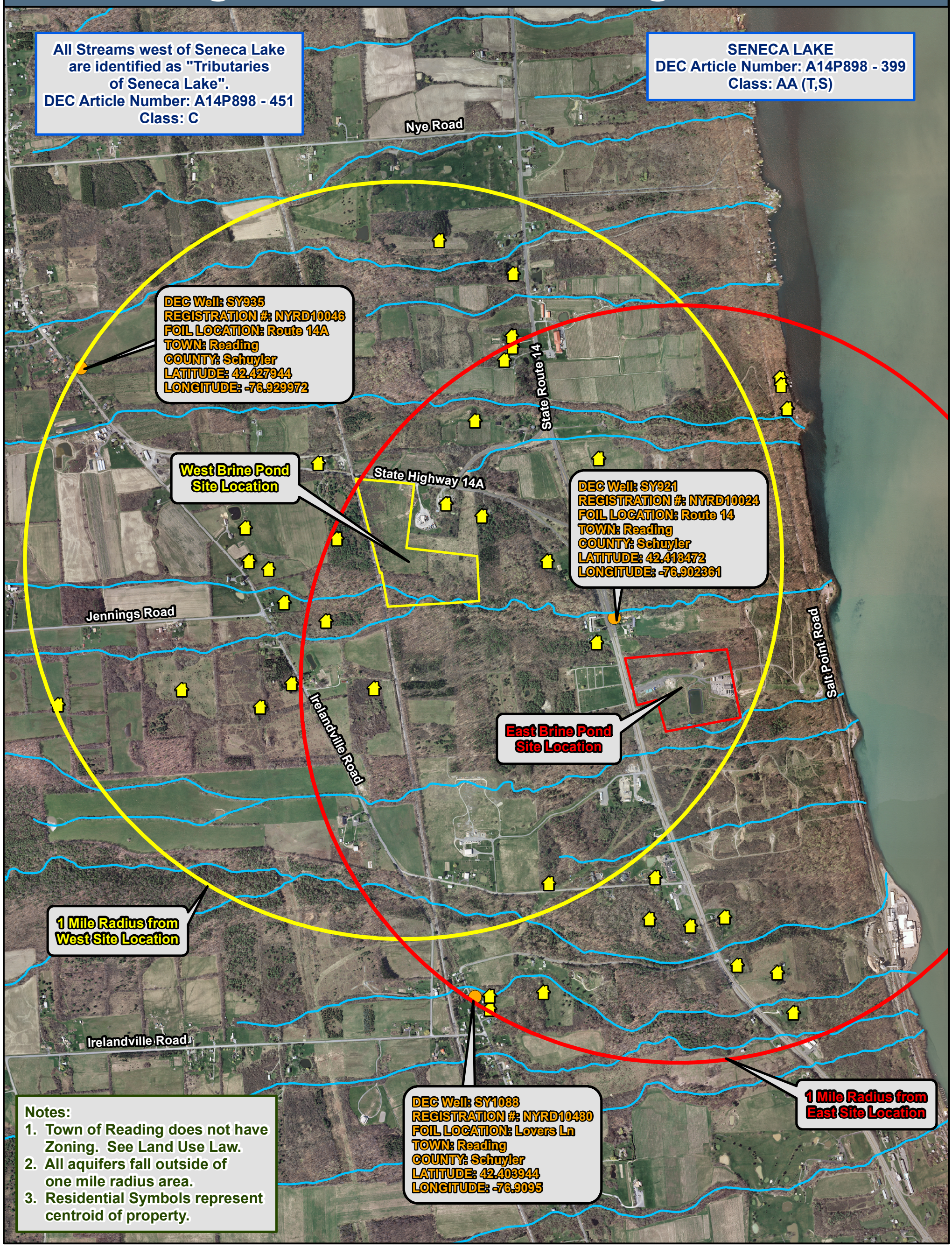
The analytical laboratory will also provide the analytical results in an Electronic Data Deliverable (EDD) formatted to meet the most current requirements of the NYSDEC Environmental Information Management System (EIMS) which uses the database software application EQuIS™ from EarthSoft® Inc.

Internal data validation will be performed by the laboratory QA officer for ASP Category A data deliverable packages to document that the data package is complete and meets the criteria of this Section. Any problems encountered in performing the analyses by the laboratory such as out of limits surrogate recoveries, comments on the quality and limitations of specific data, and the validity of the data will be described in the case narrative of the data deliverable package.

FIGURE 1

Vicinity Map

Finger Lakes LPG Storage, LLC



Notes:
1. Town of Reading does not have Zoning. See Land Use Law.
2. All aquifers fall outside of one mile radius area.
3. Residential Symbols represent centroid of property.

Map Note: Aerial Photography Flown spring 2011, 6" resolution

0 625 1,250 2,500 Feet

1 inch = 1,250 feet

Project Number: 08.8696
Data Source: NYSGIS Clearinghouse,
Projection: State Plane NAD83 NY Central
Date: May 22, 2012
File: US_Salt_Aquifer_Wells11x17_update.mxd
GIS: CH/RK

Legend

- Public Water Wells
- Residential Property (Count: 50)
- East Site Location: Tax ID 43.00-1-15
- West Site Location: Tax ID 43.00-1-29.12
- DEC Streams

N W E S

Figure 1: Vicinity Map
Proposed Finger Lakes LPG Storage Brine Ponds

Town of Reading **Schuyler County, New York**

C.T. MALE ASSOCIATES
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50 CENTURY HILL DRIVE, LATHAM, NEW YORK 12110
(518) 786-7400 * FAX (518) 786-7299 * WWW.CTMALE.COM
Architecture * Building Systems Engineering * Civil Engineering * Environmental Services * Geographic Information Services (GIS) * Land Development * Land Surveying
FOUNDED IN 1910

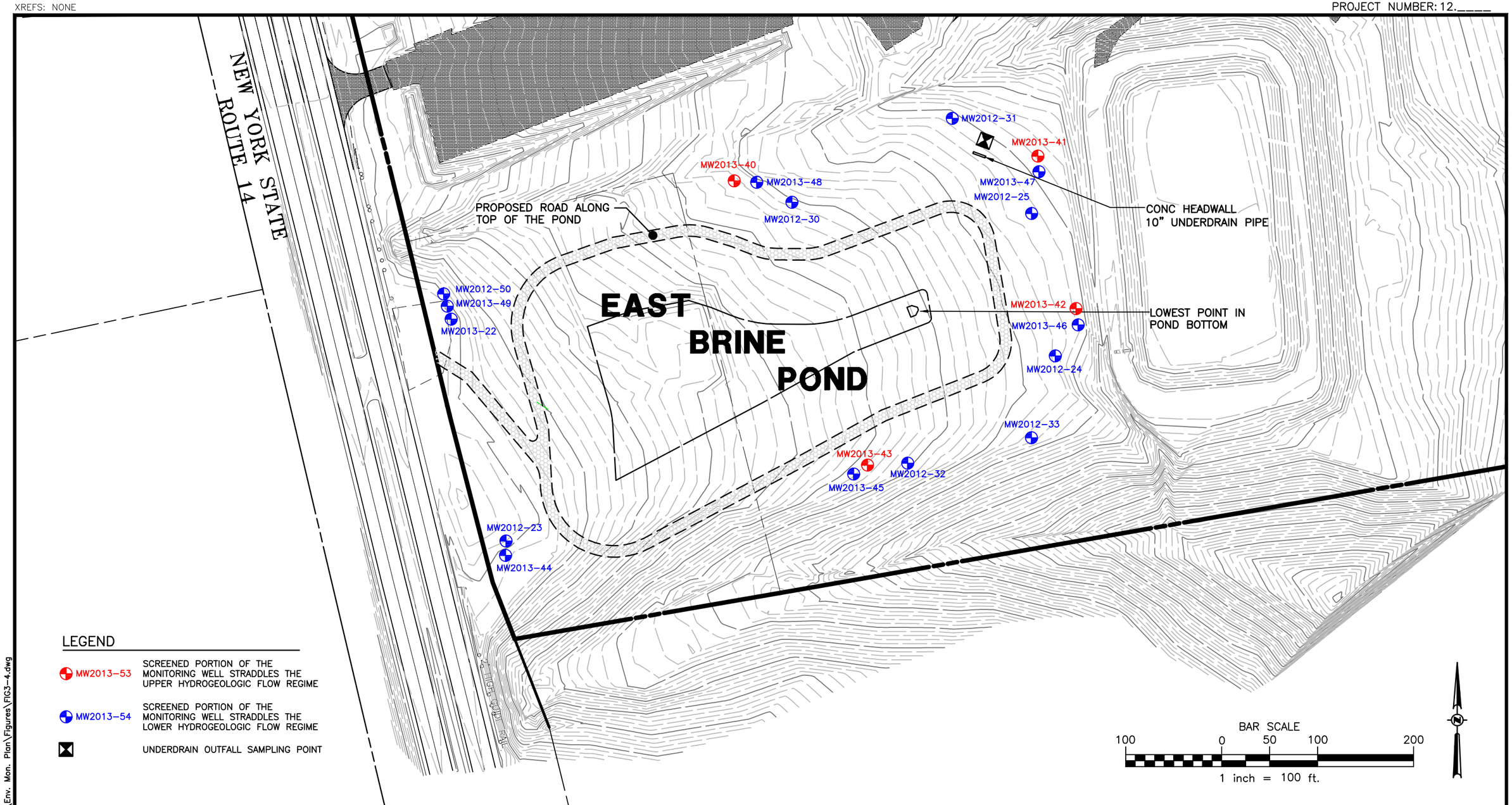
FIGURE 2

Environmental Monitoring Points

(East Brine Pond)

XREFS: NONE

PROJECT NUMBER: 12.____



LEGEND

- MW2013-53 — SCREENED PORTION OF THE MONITORING WELL STRADDLES THE UPPER HYDROGEOLOGIC FLOW REGIME
- MW2013-54 — SCREENED PORTION OF THE MONITORING WELL STRADDLES THE LOWER HYDROGEOLOGIC FLOW REGIME
- UNDERDRAIN OUTFALL SAMPLING POINT

DATE		REVISIONS RECORD/DESCRIPTION	DRAFTED	CHECK	APPR.
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DESIGNED :
DRAFTED : MMB
CHECKED : S.BIEBER
PROJ. NO: 08.8696
SCALE : AS SHOWN
DATE : JULY 29, 2013

FIGURE 2: EAST BRINE POND ENVIRONMENTAL MONITORING POINTS

FINGER LAKES LPG STORAGE, LLC EAST AND WEST BRINE PONDS

TOWN OF READING — SCHUYLER COUNTY, N.Y.

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FIG2

SHEET 1 OF 2

DWG. NO: 13-0441

CAD DWG. FILE NAME: K:\Projects\088696\Admin\Env. Mon. Plan\Figures\FIG3-4.dwg

CAD DWG. FILE NAME:FILENAME

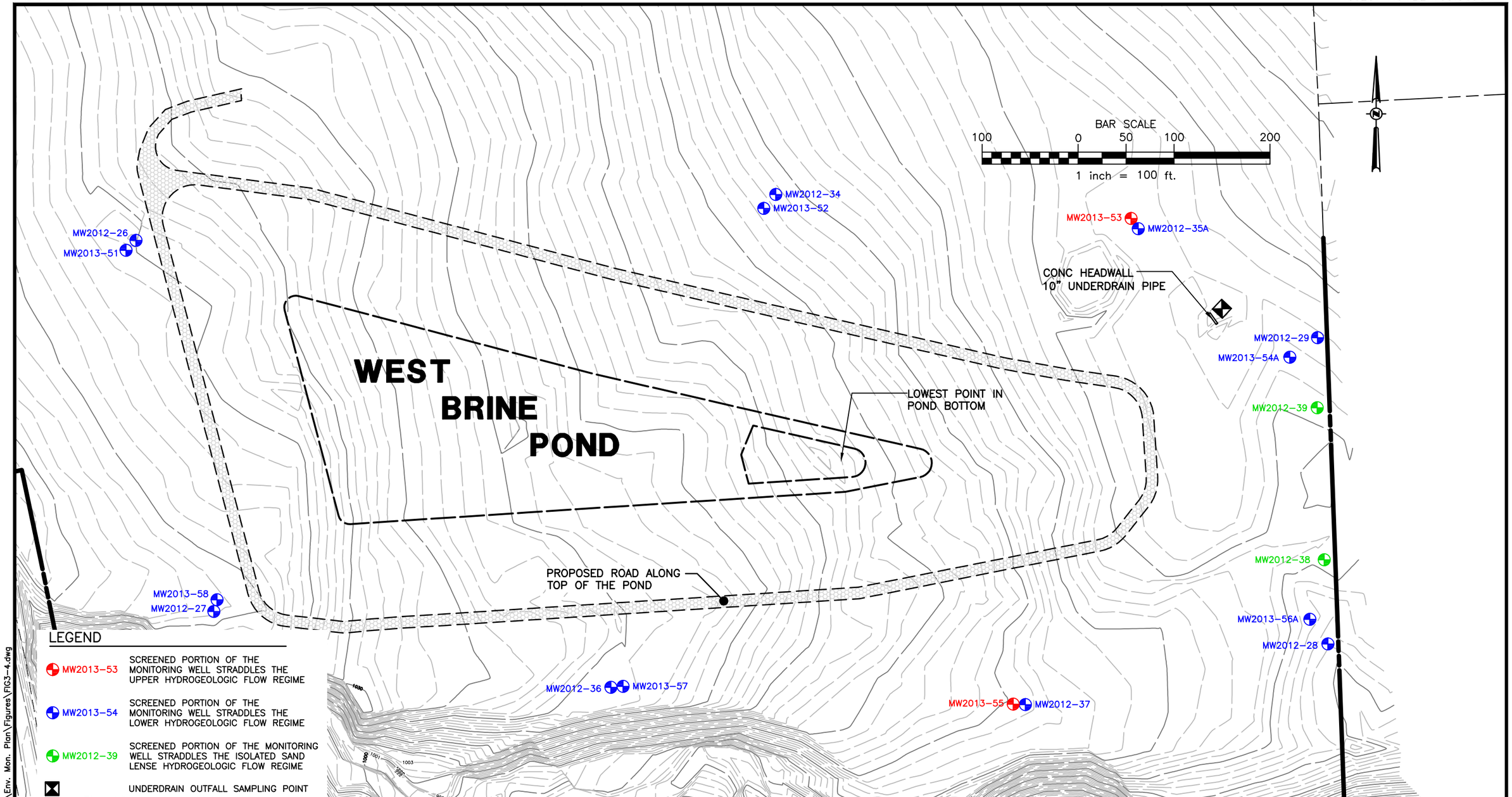
FIGURE 3

Environmental Monitoring Points

(West Brine Pond)

XREFS: NONE

PROJECT NUMBER: 08.8696



CAD DWG. FILE NAME: FIG3-4.dwg

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SCALE : AS SHOWN
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FIGURE 3: WEST BRINE POND ENVIRONMENTAL MONITORING POINTS

FINGER LAKES LPG STORAGE, LLC EAST AND WEST BRINE PONDS

TOWN OF READING — SCHUYLER COUNTY, N.Y.

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FIG3

SHEET 2 OF 2

DWG. NO: 13-0440

CAD DWG. FILE NAME: FIG3-4.dwg

TABLE 1

Monitoring Well Summary

(East Brine Pond)

TABLE 1: MONITORING WELL SUMMARY
EAST BRINE POND
FINGER LAKES LPG STORAGE
TOWN OF READING, SCHUYLER COUNTY

Monitoring Well ID	MW2012-22	MW2012-23	MW2012-24	MW2012-25	MW2012-30	MW2012-31	MW2012-32	MW2012-33	MW2013-40	MW2013-41
Installation Date	4/18/2012	4/19/2012	4/19-20/2012	4/23-24/2012	6/18-19/2012	6/19-20/2012	6/20 & 22/2012	6/25-26/2012	3/8/2013	3/11/2013
Approximate Ground Surface Elevation (feet)	851.26	851.26	813.08	811.58	820.05	811.61	821.79	813.85	822.37	809.65
Approximate Top of PVC Riser Elevation (feet)	853.48	854.37	815.86	813.94	823.10	814.03	824.28	816.46	824.11	813.18
Approximate Total Depth of Monitoring Well (feet bgs)	30	25	41	38.2	35	33	53.5	42	12	17
Approximate Depth to Top of Screen (feet bgs)	25	20	31	28.2	30	28	33.5	37	5	9
Length of Screen (feet)	5	5	10	10	5	5	20	5	7	8
Approximate Depth to Top of Filter Pack (feet bgs)	23	17.9	13.8	12.2	12	3	12	5	3	6.5
Approximate Thickness of Filter Pack (feet)	7	7.1	27.2	26	23	30	41.5	37	9	10.5
Type of Seal Above Filter Pack	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite
Approximate Depth to Groundwater (feet below top of PVC riser)	13.75 on 5/3/13	13.95 on 5/3/13	10.58 on 5/3/13	8.46 on 5/3/13	4.03 on 5/3/13	5.07 on 5/3/13	6.12 on 5/3/13	3.80 on 5/3/13	4.28 on 5/3/13	11.98 on 5/3/13
Soil Lithology in Screened Interval	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Silt/Glacial Till Interface	Silt/Glacial Till Interface
Hydrogeologic Flow Regime	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Upper	Upper

Monitoring Well ID	MW2013-42	MW2013-43	MW2013-44	MW2013-45	MW2013-46	MW2013-47	MW2013-48	MW2013-49	MW2013-50
Installation Date	3/12/2013	3/12/2013	3/14/2013	3/18/2013	3/21/2013	3/26/2013	3/27/2013	3/29/2013	4/2/2013
Approximate Ground Surface Elevation (feet)	811.23	823.94	849.54	824.53	811.41	810.18	821.18	851.14	851.02
Approximate Top of PVC Riser Elevation (feet)	815.09	826.55	852.43	827.09	814.65	812.89	823.46	854.06	853.67
Approximate Total Depth of Monitoring Well (feet bgs)	20	13	45	38.2	55	43.6	38	62	36
Approximate Depth to Top of Screen (feet bgs)	10	8	25	24.2	38	28.6	18	52	21
Length of Screen (feet)	10	5	20	14	17	15	20	10	15
Approximate Depth to Top of Filter Pack (feet bgs)	7.2	5.5	20.3	20.5	33	25	13.1	49	17.5
Approximate Thickness of Filter Pack (feet)	12.8	7.5	24.7	17.7	22	18.6	24.9	13	18.5
Type of Seal Above Filter Pack	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite
Approximate Depth to Groundwater (feet below top of PVC riser)	10.05 on 5/3/13	7.44 on 5/3/13	12.06 on 5/3/13	8.39 on 5/3/13	14.11 on 5/3/13	11.03 on 5/3/13	5.15 on 5/3/13	14.06 on 5/3/13	13.19 on 5/3/13
Soil Lithology in Screened Interval	Silt/Glacial Till Interface	Silt/Glacial Till Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface
Hydrogeologic Flow Regime	Upper	Upper	Lower	Lower	Lower	Lower	Lower	Lower	Lower

TABLE 2

Monitoring Well Summary

(West Brine Pond)

TABLE 2: MONITORING WELL SUMMARY
WEST BRINE POND
FINGER LAKES LPG STORAGE
TOWN OF READING, SCHUYLER COUNTY

Monitoring Well ID	MW2012-26	MW2012-27	MW2012-28	MW2012-29	MW2012-34	MW2012-35A	MW2012-36	MW2012-37	MW2012-38
Installation Date	4/24-4/25/2012	4/25/2012	4/26/2012	4/30/2012	6/26-27/2012	6/28/2012	7/3/2012	6/29-7/2/2012	6/28/2012
Approximate Ground Surface Elevation (feet)	1034.92	1041.72	986.41	988.06	1001.46	987.55	1020.52	999.51	990.87
Approximate Top of PVC Riser Elevation (feet)	1037.29	1044.31	989.26	990.65	1003.66	990.16	1023.69	1002.28	993.42
Approximate Total Depth of Monitoring Well (feet bgs)	35	26	32.7	43	37	37.1	35	34	10
Approximate Depth to Top of Screen (feet bgs)	30	21	22.7	33	32	32	30	29	5
Length of Screen (feet)	5	5	10	10	5	5	5	5	5
Approximate Depth to Top of Filter Pack (feet bgs)	27.7	18	4.8	5	3	3	18	3	3
Approximate Thickness of Filter Pack (feet)	7.3	8	27.9	28	34	34.1	17	31	7
Type of Seal Above Filter Pack	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite
Approximate Depth to Groundwater	10.07 on 5/7/13	14.60 on 5/7/13	6.09 on 5/7/13	5.88 on 5/7/13	8.01 on 5/7/13	4.05 on 5/7/13	13.64 on 5/7/13	16.53 on 5/7/13	9.04 on 5/7/13
Soil Lithology in Screened Interval	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Sand Lense
Hydrogeologic Flow Regime	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Lower	Isolated Sand Lense

Monitoring Well ID	MW2012-39	MW2013-51	MW2013-52	MW2013-53	MW2013-54A	MW2013-55	MW2013-56A	MW2013-57	MW2013-58
Installation Date	6/28/2012	4/10/2013	4/15/2013	4/11/2013	4/29/2013	4/17/2013	4/24-25/2013	4/18/2013	4/23/2013
Approximate Ground Surface Elevation (feet)	990.49	1035.23	1002.16	987.54	988.54	999.57	988.1	1020.38	1041.33
Approximate Top of PVC Riser Elevation (feet)	992.99	1037.6	1004.74	990.11	991.32	1002.37	990.99	1023.07	1044.02
Approximate Total Depth of Monitoring Well (feet bgs)	13	50	51.3	26.5	49	22	46	48	51.5
Approximate Depth to Top of Screen (feet bgs)	8	30	31	21.5	34	17	33	30	36.5
Length of Screen (feet)	5	20	20.3	5	15	5	13	18	15
Approximate Depth to Top of Filter Pack (feet bgs)	7	25.5	26.9	19.3	30.5	14.5	29.5	25.5	33
Approximate Thickness of Filter Pack (feet)	6	24.5	24.4	7.2	18.5	7.5	16.5	22.5	18.5
Type of Seal Above Filter Pack	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite	Bentonite
Approximate Depth to Groundwater	8.17 on 5/7/13	8.25 on 5/7/13	9.21 on 5/7/13	3.31 on 5/7/13	7.19 on 5/7/13	13.12 on 5/7/13	8.58 on 5/7/13	15.54 on 5/7/13	21.35 on 5/7/13
Soil Lithology in Screened Interval	Sand Lense	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Sand/Glacial Till Interface	Glacial Till/Bedrock Interface	Sand/Glacial Till Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface	Glacial Till/Bedrock Interface
Hydrogeologic Flow Regime	Isolated Sand Lense	Lower	Lower	Upper	Lower	Upper	Lower	Lower	Lower

bgs=Below Ground Surface

TABLE 3

Groundwater Sampling Results

(East Brine Pond)

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	PH (Standard Units)	6.5 - 8.5	7.49			7.15			8.2			7.48																	
June 2012	(field measured)		7.49			7.22			7.56			7.5																	
August 2012															7.61			NA			7.36			7.27					
February 2013			7.76			7.22			NA			NA			NA			NA			NA			NA					
May 2013			7.36			7.27			8.04			7.57			7.46			7.6			7.36			7.27			7.88		
August 2013			7.86			7.57			8.42			7.7			7.9			8.08			7.86			7.8			8.13		
December 2013																											7.91		
March 2014																											7.76		
October 2014			8.4			7.65			8.37			7.7			7.61			7.82			7.88			7.37			7.74		
Mean			**7.73**			**7.35**			**8.12**			**7.59**			**7.65**			**7.83**			**7.62**			**7.43**			**7.88**		
Standard Deviation			**0.38**			**0.21**			**0.35**			**0.11**			**0.18**			**0.24**			**0.29**			**0.25**			**0.16**		
Mean + 3 Standard Deviations			**8.86**			**7.97**			**9.16**			**7.91**			**8.20**			**8.55**			**8.50**			**8.19**			**8.35**		
May 2012	Turbidity (NTU)	5 NTU	**9.73**			**7.33**			**16.2**			**8.07**																	
June 2012(2)	(field measured)		**12.7**			**12.4**			**10.25**			**12.4**																	
August 2012															**14.7**			NA			**14.2**			**5.12**					
February 2013			**6.13**			**19.4**			**5.11**			**5.8**			**5.47**			**7.08**			**12.1**			**25.3**					
May 2013			**6.94**			**5.26**			**5.74**			**9.65**			3.53			**6.9**			**12.5**			**8.42**			**5.57**		
August 2013			**10.06**			**16.2**			**13.8**			**12**			**6.14**			2.93			**18.5**			**8.35**			**15.2**		
December 2013																											**5.77**		
March 2014																											**12.6**		
October 2014			**52.2**			**35.8**			**18**			**10.43**			**21.6**			**14.4**			**22**			**18**			**10.53**		
Mean			**17.61**			**17.81**			**10.58**			**10.06**			**10.29**			**7.83**			**15.86**			**13.04**			**9.93**		
Standard Deviation			**19.51**			**11.35**			**5.45**			**2.63**			**7.64**			**4.78**			**4.27**			**8.38**			**4.23**		
Mean + 3 Standard Deviations			**76.15**			**51.87**			**26.93**			**17.95**			**33.21**			**22.17**			**28.66**			**38.18**			**22.62**		
May 2012	Specific	No Standard	232			306			767			1,111																	
June 2012	Conductivity (uS)		1,953			1,772			777			1,142																	
August 2012	(field measured)														2,310			NA			1,353			1,336					
February 2013															NA			NA			NA			NA					
May 2013			1,775			2,490			710			1,137			1,821			1,012			1,283			1,285			1,092		
August 2013			1,578			1,055			672			1,006			1,539			1,640			1,156			1,164			1,098		
December 2013																											1,122		
March 2014																											1,554		
October 2014			1,939			5,340			896			1,178			1,947			1,005			1,357			1,354			1,480		
Mean			**1,495.4**			**2,192.6**			**764.4**			**1,114.8**			**1,904.3**			**1,219.0**			**1,287.3**			**1,284.8**			**1,269.2**		
Standard Deviation			**722.4**			**1,938.1**			**85.1**			**65.3**			**319.8**			**364.6**			**93.9**			**85.6**			**228.0**		
Mean + 3 Standard Deviations			**3,662.6**			**8,006.9**			**1,019.8**			**1,310.8**			**2,863.6**			**2,312.8**			**1,568.8**			**1,541.7**			**1,953.2**		
May 2012	Color (CPU)	15 Apha	**130**		50	**140**		50	**120**		50	**140**		50															
June 2012(2)																													
August 2012															**43**		5.0	NA			**86**		10	**23**		5.0			
February 2013			**16**		5.0	**80**		25	**16**		5.0	14		5.0	**50**		10	**36**		5.0	**19**		5.0	**70**		25			
May 2013			5.0	U	5.0	5.0	U	5.0	6		5.0	5.0	U	5.0	**23**		5.0	6		5.0	12		5.0	12		5.0	5.0	U	5.0
August 2013			7		5.0	8		5.0	**19**		5.0	8		5.0	**17**		5.0	7		5.0	**18**		5.0	6		5.0	8		5.0
December 2013																											10		5.0
March 2014																											5.0	U	5.0
Mean			**9.3**			**31.0**			**13.7**			**9.0**			**33.3**			**16.3**			**33.8**			**27.8**			**7.0**		
Standard Deviation			**5.9**			**42.5**			**6.8**			**4.6**			**15.8**			**17.0**			**35.0**			**29.0**			**2.4**		
Mean + 3 Standard Deviations			**26.9**			**158.4**			**34.1**			**22.7**			**80.5**			**67.5**			**138.7**			**114.8**			**14.3**		
May 2012	Total Dissolved	500	**1,200**		4.4	**18,000**		4.4	450		4.4	**650**		4.4															
June 2012	Solids (mg/l)																												
August 2012	CAS #C-010														**1,200**		4.4	NA			**740**		4.4	**750**		4.4			
February 2013			**1,000**		4.4	**2,300**		4.4	460		4.4	**650**		4.4	**1,100**		4.4	**520**		4.4	**790**		4.4	**790**		4.4			
May 2013			**1,000**		4.4	**1,500**		4.4	410		4.4	**690**		4.4	**1,200**		4.4	**620**		4.4	**820**		4.4	**740**		4.4	**710**		4.4
August 2013			**1,100**		4.4	**3,200**		4.4	360		4.4	**640**		4.4	**1,100**		4.4	**630**		4.4	**780**		4.4	**770**		4.4	**750**		4.4
December 2013																											**740**		3.6
March 2014																											**810**		3.6
October 2014			**1,100**		3.6	**3,700**		3.6	**510**		3.6	**720**		3.6	**1,100**		3.6	**590**		3.6	**800**		3.6	**750**		3.6	**810**		3.6
Mean			**1,080.0**			**5,740.0**			**438.0**			**670.0**			**1,140.0**			**590.0**			**786.0**			**760.0**			**764.0**		
Standard Deviation			**83.7**			**6,905.3**			**56.3**			**33.9**			**54.8**			**49.7**			**29.7**			**20.0**			**44.5**		
Mean + 3 Standard Deviations			**1,331.0**			**26,455.9**			**606.9**			**771.7**			**1,304.3**			**739.0**			**875.0**			**820.0**			**897.5**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Chemical Oxygen	No Standard	30		7.0	42		7.0	23		7.0	7.0	U	7.0															
June 2012	Demand (mg/l)																												
August 2012	CAS #C-004														31		7.0	NA			20		7.0	40		7.0			
February 2013			24		7.0	45		7.0	20		7.0	7.0	U	7.0	34		7.0	8.3	J	7.0	7.0	U	7.0	7.0	U	7.0			
May 2013			7.0	U	7.0	4.9	J	3.5	3.5	U	3.5	4.9	J	3.5	7.4	J	3.5	9.9	J	3.5	7.4	J	3.5	3.5	U	3.5	12		3.5
August 2013			3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	5.5	J	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	9.8	J	3.5
December 2013																											9.2	J	3.5
March 2014																											14		3.5
October 2014			3.5	U	3.5	19		3.5	7.3	J	3.5	3.5	U	3.5	19		3.5	12		3.5	9.5	J	3.5	12		3.5	14		3.5
Mean			**13.6**			**22.9**			**11.5**			**5.6**			**19.0**			**8.4**			**9.5**			**13.2**			**11.8**		
Standard Deviation			**12.5**			**19.8**			**9.4**			**1.5**			**13.6**			**3.6**			**6.3**			**15.4**			**2.3**		
Mean + 3 Standard Deviations			**51.1**			**82.3**			**39.5**			**10.0**			**59.9**			**19.3**			**28.3**			**59.3**			**18.6**		
May 2012	Biochemical Oxygen	No Standard	0	ND	NA	0	ND	NA	6.5		NA	19		NA															
June 2012	Demand (mg/l)(3)																												
August 2012	CAS #C-003														6.2		NA	NA			0	ND	NA	0	ND	NA			
February 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	2.8		NA	0	ND	NA	0	ND	NA	0	ND	NA			
May 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	3.7		NA	3.2		NA	0	ND	NA	0	ND	NA	0	ND	NA
August 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	5.9		NA	0	ND	NA	0	ND	NA	0	ND	NA
December 2013																											0	ND	NA
March 2014																											0	ND	NA
October 2014			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	6.7		NA	0	ND	NA	0	ND	NA	0	ND	NA
Mean			**0.00**			**0.00**			**1.30**			**3.80**			**2.54**			**3.95**			**0.00**			**0.00**			**0.00**		
Standard Deviation			**0.00**			**0.00**			**2.91**			**8.50**			**2.63**			**3.03**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.0**			**0.0**			**10.02**			**29.29**			**10.44**			**13.04**			**0.00**			**0.00**			**0.00**		
May 2012	Total Organic	No Standard	3.8		0.10	3.5		0.10	5.2		0.10	3.8		0.10															
June 2012	Carbon (mg/l)																												
August 2012	CAS #C-012														4.3		0.05	12		0.05	1.9		0.05	1.6		0.05			
February 2013			2.07		0.052	1.21		0.052	2.04		0.052	1.26		0.052	2.23		0.052	4.19		0.052	1.4		0.052	1.14		0.052			
May 2013			2.37		0.052	2.07		0.052	2.56		0.052	3.15		0.052	3.09		0.052	2.06		0.052	2.02		0.052	1.9		0.052	2.99		0.052
August 2013			1.88		0.052	1.8		0.052	2.23		0.052	1.89		0.052	1.93		0.052	2.18		0.052	2.07		0.052	1.88		0.052	2.37		0.052
December 2013																											1.23		0.236
March 2014																											1.11		0.236
October 2014			0.79		0.118	0.44	J	0.118	1.02		0.118	0.8		0.118	1.09		0.236	1.07		0.118	0.87		0.118	0.73		0.118	0.84		0.118
Mean			**1.8**			**1.4**			**2.0**			**1.8**			**2.5**			**4.3**			**1.7**			**1.5**			**1.7**		
Standard Deviation			**0.7**			**0.7**			**0.7**			**1.0**			**1.2**			**4.5**			**0.5**			**0.5**			**0.9**		
Mean + 3 Standard Deviations			**3.8**			**3.5**			**4.0**			**4.8**			**6.2**			**17.7**			**3.2**			**3.0**			**4.5**		
May 2012	Sulfate (mg/l)	250	50		1.6	110		1.6	52		1.6	82		1.6															
June 2012	CAS #18785-72-3																												
August 2012															28	J	8.1	NA			140		8.1	120		8.1			
February 2013			59.7		2.29	99.9		11.5	108		1.15	101		2.29	31.4		0.229	102		2.29	100		2.29	82.8		0.229			
May 2013			53.5		0.229	142		11.4	94.8		0.229	89		0.229	32.7		0.229	85.3		0.229	114		5.72	92.2		0.229	61.2		0.229
August 2013			51.7		0.229	88.4		0.229	61.2		0.229	94.8		0.229	26		0.229	96.6		0.229	97		0.229	83.4		0.229	54.4		0.229
December 2013																											53.2		0.229
March 2014																											70.1		2.29
October 2014			66.7		3.25	144		6.5	76.8		0.65	112		1.3	54.7		3.25	102		1.3	147		3.25	119		3.25	74.1		1.3
Mean			**56.3**			**116.9**			**78.6**			**95.8**			**34.6**			**96.5**			**119.6**			**99.5**			**62.6**		
Standard Deviation			**6.9**			**25.1**			**23.1**			**11.5**			**11.6**			**7.9**			**22.9**			**18.7**			**9.3**		
Mean + 3 Standard Deviations			**76.9**			**192.1**			**148.0**			**130.2**			**69.3**			**120.1**			**188.2**			**155.4**			**90.5**		
May 2012	Alkalinity (mg/l)	No Standard	360		NA	340		NA	230		NA	380		NA															
June 2012	CAS #10001																												
August 2012															260		NA	NA			370		NA	350		NA			
February 2013			363		NA	332		NA	257		NA	372		NA	277		NA	269		NA	345		NA	342		NA			
May 2013			377		NA	345		NA	265		NA	364		NA	279		NA	369		NA	372		NA	355		NA	191		NA
August 2013			371		NA	321		NA	281		NA	377		NA	273		NA	354		NA	372		NA	355		NA	188		NA
December 2013																											257		NA
March 2014																											236		NA
October 2014			375		NA	330		NA	393		NA	392		NA	300		NA	345		NA	382		NA	374		NA	286		NA
Mean			**369.2**			**333.6**			**285.2**			**377.0**			**277.8**			**334.3**			**368.2**			**355.2**			**231.6**		
Standard Deviation			**7.4**			**9.3**			**63.0**			**10.3**			**14.4**			**44.6**			**13.8**			**11.8**			**42.3**		
Mean + 3 Standard Deviations			**391.5**			**361.5**			**474.3**			**408.0**			**321.1**			**468.1**			**409.6**			**390.5**			**358.6**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Salinity (SU)	No Standard	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0															
June 2012	CAS #10047																												
August 2012															2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0			
February 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0			
May 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
August 2013			2.0	U	2.0	3.2		2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
December 2013																											2.0	U	2.0
March 2014																											2.0	U	2.0
October 2014			2	U	2	3.5		2	2	U	2	2	U	2	2	U	2	2	U	2	2	U	2	2	U	2	2.0	U	2
Mean			**2.0**			**2.5**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**		
Standard Deviation			**0.0**			**0.7**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**		
Mean + 3 Standard Deviations			**2.0**			**4.8**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**		
May 2012	Bromide (mg/l)	2 (GV)	0.22		0.01	0.24		0.01	0.15		0.01	0.17		0.01															
June 2012	CAS #7726-95-6																												
August 2012															0.68	U	0.68	NA			0.01	U	0.01	0.13		0.01			
February 2013			0.108	J	0.100	0.254		0.010	0.067		0.010	0.133		0.010	0.242		0.010	0.124		0.010	0.133		0.010	0.145		0.010			
May 2013			0.08		0.010	0.091		0.010	0.01	U	0.010	0.101		0.010	0.233		0.010	0.072		0.010	0.082		0.010	0.086		0.010	0.142		0.010
August 2013			0.105		0.010	0.37		0..010	0.041	J	0.010	0.119		0.010	0.233		0.010	0.075		0.010	0.113		0.010	0.118		0.010	0.134		0.010
December 2013																											0.147		0.010
March 2014																											0.153		0.010
October 2014			0.408	U	0.408	0.815	U	0.815	0.081	U	0.081	0.163	U	0.163	0.408	U	0.408	0.163	U	0.163	0.408	U	0.408	0.408	U	0.408	0.163	U	0.163
Mean			**0.184**			**0.354**			**0.067**			**0.137**			**0.359**			**0.109**			**0.149**			**0.177**			**0.148**		
Standard Deviation			**0.136**			**0.276**			**0.060**			**0.029**			**0.194**			**0.043**			**0.152**			**0.131**			**0.011**		
Mean + 3 Standard Deviations			**0.593**			**1.182**			**0.247**			**0.225**			**0.942**			**0.239**			**0.605**			**0.570**			**0.181**		
May 2012	Chloride (mg/l)	250	**560**		8.9	**810**		8.9	52		0.89	91		2.2															
June 2012	CAS #16887-00-6																												
August 2012															**520**		4.4	NA			200		4.4	240		4.4			
February 2013			**457**		1.68	**1,120**		8.40	37.7		0.168	114		1.68	**523**		4.20	89.2		1.68	230		1.68	**269**		1.68			
May 2013			**396**		8.40	**551**		8.40	19.5		0.168	124		1.68	**482**		4.20	78.3		1.68	183		4.20	196		4.20	242		1.68
August 2013			**439**		4.20	**1,710**		16.8	26		0.168	122		8.40	**505**		8.40	84.6		1.68	208		4.20	222		4.20	**263**		4.20
December 2013																											**307**		1.68
March 2014																											**284**		1.68
October 2014			**385**		2.44	**1,590**		4.87	20		0.487	109		0.974	**431**		2.44	78.4		0.974	148		2.44	172		2.44	**293**		0.974
Mean			**447.4**			**1,156.2**			**31.0**			**112.0**			**492.2**			**82.6**			**193.8**			**219.8**			**277.8**		
Standard Deviation			**69.6**			**495.6**			**13.8**			**13.2**			**37.9**			**5.3**			**30.7**			**37.7**			**25.6**		
Mean + 3 Standard Deviations			**656.2**			**2,642.9**			**72.5**			**151.6**			**605.8**			**98.5**			**285.8**			**332.9**			**354.6**		
May 2012	Total Hardness	No Standard	660		0.24	990		0.24	150		0.24	450		0.24															
June 2012	(mg/l)																												
August 2012															750		NA	530		NA	630		0.24	620		0.24			
February 2013			720		NA	1,100		NA	280		NA	470		NA	660		NA	270		NA	600		NA	610		NA			
May 2013			680		NA	930		NA	290		NA	540		NA	820		NA	530		NA	640		NA	630		NA	440		NA
August 2013			640		NA	1,600		NA	260		NA	540		NA	720		NA	400		NA	630		NA	600		NA	430		NA
December 2013																											620		NA
March 2014																											520		NA
October 2014			590		NA	1600		NA	420		NA	550		NA	760		NA	420		NA	660		NA	610		NA	610		NA
Mean			**658.0**			**1,244.0**			**280.0**			**510.0**			**742.0**			**430.0**			**632.0**			**614.0**			**524.0**		
Standard Deviation			**48.2**			**330.7**			**96.2**			**46.4**			**58.5**			**107.9**			**21.7**			**11.4**			**90.2**		
Mean + 3 Standard Deviations			**802.5**			**2,236.0**			**568.5**			**649.1**			**52.3**			**753.8**			**697.0**			**648.2**			**794.5**		
May 2012	Total Kjeldahl	No Standard	1.0		0.06	0.45		0.06	2.5		0.06	0.74		0.06															
June 2012	Nitrogen (mg/l)																												
August 2012	CAS #7727-37-9														3.3		0.06	NA			0.94		0.06	1.6		0.06			
February 2013			0.48		0.06	0.28	J	0.06	1.4		0.06	0.69		0.06	1.5		0.06	2.9		0.06	0.31		0.06	0.33		0.06			
May 2013			0.57		0.060	0.22	J	0.060	1.2		0.060	0.77		0.060	1.3		0.060	1.1		0.060	0.42		0.060	0.38		0.060	0.72		0.060
August 2013			0.53		0.060	0.19	J	0.060	1.3		0.060	0.45		0.060	1.5		0.060	2.2		0.060	0.6		0.060	0.39		0.060	0.66		0.060
December 2013																											0.21	J	0.093
March 2014																											0.83		0.093
October 2014			0.47		0.093	0.24	J	0.093	0.67		0.093	0.54		0.093	1.3		0.093	1.2		0.093	0.42		0.093	0.46		0.093	0.25	J	0.093
Mean			**0.61**			**0.28**			**1.41**			**0.64**			**1.78**			**1.85**			**0.54**			**0.63**			**0.53**		
Standard Deviation			**0.22**			**0.10**			**0.67**			**0.14**			**0.86**			**0.86**			**0.25**			**0.54**			**0.28**		
Mean + 3 Standard Deviations			**1.28**			**0.58**			**3.42**			**1.05**			**4.35**			**4.42**			**1.28**			**2.26**			**1.39**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Nitrogen, Ammonia	No Standard	0.666		0.017	0.156		0.017	2.24		0.017	0.544		0.017															
June 2012	(mg/l)																												
August 2012	CAS #7664-41-7														3.34		0.017	NA			0.447		0.017	0.22		0.017			
February 2013			0.358		0.032	0.093		0.032	1.2		0.032	0.553		0.032	1.32		0.032	2.66		0.032	0.172		0.032	0.209		0.032			
May 2013			0.281		0.031	0.069	J	0.031	0.913		0.031	0.377		0.031	1.18		0.031	0.906		0.031	0.267		0.031	0.212		0.031	0.179		0.031
August 2013			0.376		0.031	0.088		0.031	1.01		0.031	0.329		0.031	1.21		0.031	1.86		0.031	0.235		0.031	0.213		0.031	0.273		0.031
December 2013																											0.043	J	0.021
March 2014																											0.075		0.021
October 2014			0.292		0.021	0.066	J	0.021	0.596		0.021	0.28		0.021	1.1		0.021	1.24		0.021	0.186		0.021	0.187		0.021	0.249		0.021
Mean			**0.395**			**0.094**			**1.192**			**0.417**			**1.630**			**1.667**			**0.261**			**0.208**			**0.164**		
Standard Deviation			**0.157**			**0.036**			**0.625**			**0.125**			**0.959**			**0.771**			**0.111**			**0.013**			**0.102**		
Mean + 3 Standard Deviations			**0.866**			**0.203**			**3.068**			**0.792**			**4.507**			**3.980**			**0.593**			**0.246**			**0.471**		
May 2012	Nitrogen, Nitrate	10	0.09	J	0.02	0.09	J	0.02	0.03	J	0.02	0.07	J	0.02															
June 2012	(mg/l)																												
August 2012	CAS #14797-55-8														0.14		0.02	NA			0.02	J	0.02	0.02	U	0.02			
February 2013			0.04	J	0.02	0.19		0.02	0.09	J	0.02	0.08	J	0.08	0.12		0.02	0.1		0.02	0.099	J	0.015	0.1		0.02			
May 2013			0.12		0.015	0.015	U	0.015	0.081	J	0.015	0.02	U	0.015	0.02	U	0.015	0.046	J	0.015	0.02	U	0.015	0.022	J	0.015	0.02	U	0.015
August 2013			0.017	J	0.015	0.018	J	0.015	0.02	U	0.015	0.046	J	0.015	0.02	U	0.015	0.26		0.015	0.04	J	0.015	0.028	J	0.015	0.052	J	0.015
December 2013																											0.12		0.015
March 2014																											0.082	J	0.021
October 2014			0.021	U	0.021	0.6		0.021	0.12		0.021	0.17		0.021	0.021	U	0.021	0.47		0.021	0.021	U	0.021	0.021	U	0.021	0.39		0.021
Mean			**0.06**			**0.18**			**0.07**			**0.08**			**0.06**			**0.22**			**0.04**			**0.04**			**0.13**		
Standard Deviation			**0.05**			**0.24**			**0.04**			**0.06**			**0.06**			**0.19**			**0.03**			**0.03**			**0.15**		
Mean + 3 Standard Deviations			**0.19**			**0.91**			**0.19**			**0.25**			**0.25**			**0.79**			**0.14**			**0.14**			**0.58**		
May 2012	Total Phenols (mg/l)	0.001	**0.02**	J	0.01	**0.04**		0.01	**0.04**		0.01	**0.03**		0.01															
June 2012	CAS #C-020																												
August 2012															**0.06**		0.01	NA			**0.06**		0.01	**0.07**		0.01			
February 2013			**0.03**		0.01	**0.03**		0.01	**0.03**		0.01	0.01	U	0.01	0.01	U	0.01	0.01	U	0.01	**0.02**	J	0.01	**0.02**	J	0.01			
May 2013			**0.01**	J	0.009	**0.02**	J	0.009	**0.03**		0.009	**0.03**		0.009	**0.03**		0.009	**0.03**		0.009	**0.03**		0.009	**0.03**		0.009	**0.02**	J	0.009
August 2013			**0.02**	J	0.009	**0.06**		0.009	**0.02**	J	0.009	0.01	U	0.009	**0.03**		0.009	**0.04**		0.009	**0.03**		0.009	**0.04**		0.009	**0.06**		0.009
December 2013																											**0.02**	J	0.012
March 2014																											0.01	U	0.01
October 2014			0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009
Mean			**0.02**			**0.03**			**0.03**			**0.02**			**0.03**			**0.02**			**0.03**			**0.03**			**0.02**		
Standard Deviation			**0.01**			**0.02**			**0.01**			**0.01**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**		
Mean + 3 Standard Deviations			**0.04**			**0.09**			**0.06**			**0.05**			**0.09**			**0.07**			**0.09**			**0.10**			**0.09**		
May 2012	Total Cyanide (ug/l)	200	2	U	2	2	J	2	2	J	2	2	U	2															
June 2012	CAS #57-12-5																												
August 2012															2	J	2	NA			2	J	2	2	J	2			
February 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1			
May 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	J	1	1	U	1	1	J	1	1	U	1	1	U	1
August 2013			1	U	1	3	J	1	1	J	1	2	J	1	2	J	1	1	U	1	1	U	1	1	J	1	1	J	1
December 2013																											2	J	1
March 2014																											1	U	1
Mean			**1.25**			**1.75**			**1.25**			**1.50**			**1.50**			**1.00**			**1.25**			**1.25**			**1.25**		
Standard Deviation			**0.50**			**0.96**			**0.50**			**0.58**			**0.58**			**0.00**			**0.50**			**0.50**			**0.50**		
Mean + 3 Standard Deviations			**2.75**			**4.62**			**2.75**			**3.23**			**3.23**			**1.00**			**2.75**			**2.75**			**2.75**		
Metals																													
May 2012	Aluminum (ug/l)	2,000	360		20	140		20	820		20	170		20															
June 2012(2)	CAS #7429-90-5		9	J	2	7	J	2	17		2	10		2															
August 2012															177		10	**67,800**		400	414		10	25		2			
February 2013			61		2	460		2	55		2	37		2	50		2	107		2	105		2	220		2			
May 2013			41.2		2.0	13		2.0	38		2.0	26.3		2.0	19.6		2.0	68.1		2.0	70.9		2.0	29.3		2.0	44.3		2.0
August 2013			55.4		2.0	152		4.0	22.7		2.0	137		2.0	174		2.0	30.7		2.0	101		2.0	168		2.0	132		2.0
December 2013																											125		2.0
March 2014																											304		2.0
Mean			**105.3**			**154.4**			**190.5**			**76.1**			**105.2**			**17,001.5**			**172.7**			**110.6**			**151.3**		
Standard Deviation			**143.8**			**183.9**			**352.2**			**72.3**			**82.2**			**33,865.7**			**161.6**			**98.7**			**109.3**		
Mean + 3 Standard Deviations			**536.7**			**706.2**			**1,247.1**			**292.9**			**351.7**			**118,598.6**			**657.4**			**406.5**			**479.2**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Antimony (ug/l)	3	0.7		0.1	0.5		0.1	1.1		0.1	0.6		0.1															
June 2012(2)	CAS #7440-36-0		1.2		0.1	0.8		0.1	0.6		0.1	0.8		0.1															
August 2012															1.1	J	0.5	1.2	J	0.5	0.7		0.1	0.3	J	0.1			
February 2013			**3.7**		0.1	0.9		0.1	0.2	J	0.1	0.6		0.1	0.9		0.1	0.6		0.1	0.7		0.1	0.3	J	0.1			
May 2013			0.31	J	0.10	0.46	J	0.10	0.24	J	0.10	0.32	J	0.10	0.57		0.10	0.87		0.10	0.2	J	0.10	0.2	J	0.10	0.87		0.10
August 2013			0.1	U	0.10	0.2	U	0.20	0.1	U	0.10	0.11	J	0.10	0.1	U	0.10	0.47	J	0.10	0.1	U	0.10	0.1	U	0.10	0.22	J	0.10
December 2013																											0.7	J	0.10
March 2014																											0.3	J	0.10
Mean			**1.33**			**0.59**			**0.29**			**0.46**			**0.67**			**0.79**			**0.43**			**0.23**			**0.52**		
Standard Deviation			**1.65**			**0.32**			**0.22**			**0.30**			**0.44**			**0.32**			**0.32**			**0.10**			**0.31**		
Mean + 3 Standard Deviations			**6.28**			**1.55**			**0.94**			**1.37**			**1.98**			**1.75**			**1.39**			**0.51**			**1.46**		
May 2012	Arsenic (ug/l)	25	3	U	3	3	U	3	3	U	3	3	U	3															
June 2012(2)	CAS #7440-38-2		0.9		0.2	0.7		0.2	0.4	J	0.2	3.6		0.2															
August 2012															1.0	U	1.0	**31.7**		**1.0**	2.6		0.2	4.1		0.2			
February 2013			1.5		0.2	1.7		0.2	0.7		0.2	3.3		0.2	1.8		0.2	4.2		0.2	2.3		0.2	3.5		0.2			
May 2013			0.7		0.20	0.62		0.20	0.29	J	0.20	2.8		0.20	1.14		0.20	0.98		0.20	3.11		0.20	1.8		0.20	0.84		0.20
August 2013			1.14		0.20	2.23		0.40	0.54		0.20	3.35		0.20	1.18		0.20	1.59		0.20	3.87		0.20	4.03		0.20	1.83		0.20
December 2013																											0.95		0.10
March 2014																											0.87		0.10
Mean			**1.1**			**1.3**			**0.5**			**3.3**			**1.3**			**9.62**			**2.97**			**3.36**			**1.12**		
Standard Deviation			**0.3**			**0.8**			**0.2**			**0.3**			**0.4**			**14.79**			**0.69**			**1.07**			**0.47**		
Mean + 3 Standard Deviations			**2.1**			**3.7**			**1.0**			**4.3**			**2.3**			**53.98**			**5.03**			**6.57**			**2.54**		
May 2012	Barium (ug/l)	1,000	99		1	66		1	82		1	61		1															
June 2012(2)	CAS #7440-39-3		84		0.1	46.5		0.1	88.7		0.1	56.3		0.1															
August 2012															178.7		0.5	582		0.5	59.3		0.1	48.3		0.1			
February 2013			114.7		0.1	135.1		0.1	146.9		0.1	63		0.1	218.9		0.1	48.9		0.1	67.3		0.1	66.3		0.1			
May 2013			108.9		0.10	68.5		0.10	108.8		0.10	60.17		0.10	190.3		0.10	61.71		0.10	55.54		0.10	57.17		0.10	44.21		0.10
August 2013			93.25		0.10	184.3		0.20	119.5		0.10	54.3		0.10	168.6		0.10	58.46		0.10	52.79		0.10	54.35		0.10	49.36		0.10
December 2013																											57.03		0.10
March 2014																											59.19		0.10
Mean			**100.21**			**108.60**			**115.98**			**58.44**			**189.13**			**187.77**			**58.73**			**56.53**			**52.45**		
Standard Deviation			**14.10**			**62.97**			**24.25**			**3.89**			**21.74**			**262.88**			**6.30**			**7.49**			**6.92**		
Mean + 3 Standard Deviations			**142.52**			**297.52**			**188.73**			**70.13**			**254.35**			**976.40**			**77.65**			**79.00**			**73.22**		
May 2012	Beryllium (ug/l)	3 (GV)	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
June 2012(2)	CAS #7440-41-7		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.5	U	0.5	2.6		0.5	0.1	U	0.1	0.1	U	0.1			
February 2013			0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1			
May 2013			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
August 2013			0.1	U	0.10	0.2	U	0.20	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
December 2013																											0.1	U	0.10
March 2014																											0.1	U	0.10
Mean			**0.1**			**0.1**			**0.1**			**0.1**			**0.2**			**0.7**			**0.1**			**0.1**			**0.1**		
Standard Deviation			**0.0**			**0.1**			**0.0**			**0.0**			**0.2**			**1.3**			**0.0**			**0.0**			**0.0**		
Mean + 3 Standard Deviations			**0.1**			**0.3**			**0.1**			**0.1**			**0.8**			**4.5**			**0.1**			**0.1**			**0.1**		
May 2012	Boron (ug/l)	1,000	94		8	32		8	124		8	262		8															
June 2012(2)	CAS #7440-42-8		123		8	75		8	112		8	236		8															
August 2012															266		8	213		8	136		8	145		8			
February 2013			107		8	44		8	145		8	260		8	228		8	355		8	142		8	153		8			
May 2013			77.9		8.0	29.9	J	8.0	139		8.0	267		8.0	226		8.0	204		8.0	130		8.0	139		8.0	119		8.0
August 2013			84.4		7.0	33.9		7.0	145		7.0	250		7.0	206		7.0	310		7.0	127		7.0	131		7.0	163		7.0
December 2013																											157		7.0
March 2014																											119		7.0
Mean			**98.08**			**45.70**			**135.25**			**253.25**			**231.50**			**270.50**			**133.75**			**142.00**			**139.50**		
Standard Deviation			**20.78**			**20.41**			**15.76**			**13.45**			**25.05**			**74.00**			**6.65**			**9.31**			**23.80**		
Mean + 3 Standard Deviations			**160.40**			**106.94**			**182.52**			**293.60**			**306.66**			**492.51**			**153.71**			**169.93**			**210.89**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Cadmium (ug/l)	5	1	U	1	1	U	1	1	U	1	1	U	1															
June 2012(2)	CAS #7440-43-9		0.3	J	0.1	0.3	J	0.1	0.1	U	0.1	0.1	J	0.1															
August 2012															0.3	U	0.3	0.3	U	0.3	0.1	U	0.1	0.1	U	0.1			
February 2013			0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1			
May 2013			0.57		0.05	0.06	J	0.05	0.06	J	0.05	0.35	J	0.05	0.1	J	0.05	0.09	J	0.05	0.05	U	0.05	0.05	U	0.05	0.09	J	0.05
August 2013			0.05	J	0.05	0.1	U	0.10	0.09	J	0.05	0.05	U	0.05	0.05	U	0.05	0.07	J	0.05	0.05	U	0.05	0.07	J	0.05	0.05	U	0.05
December 2013																											0.06	J	0.05
March 2014																											0.1	J	0.05
October 2014			0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.1	J	0.1
Mean			**0.21**			**0.12**			**0.08**			**0.13**			**0.12**			**0.12**			**0.07**			**0.07**			**0.08**		
Standard Deviation			**0.22**			**0.10**			**0.02**			**0.13**			**0.10**			**0.10**			**0.03**			**0.03**			**0.02**		
Mean + 3 Standard Deviations			**0.89**			**0.43**			**0.15**			**0.51**			**0.43**			**0.43**			**0.15**			**0.15**			**0.15**		
May 2012	Calcium (ug/l)	No Standard	150,000		20	260,000		20	30,000		20	110,000		20															
June 2012(2)	CAS #7440-70-2		168,000		320	16,100		320	40,500		32	119,000		320															
August 2012															159,000		160	101,000		160	152,000		160	151,000		160			
February 2013			175,000		160	368,000		320	57,000		160	135,000		160	192,000		160	68,800		160	166,000		160	172,000		160			
May 2013			155,000		320	244,000		320	57,400		320	130,000		320	200,000		20	100,000		20	157,000		320	160,000		320	110,000		20
August 2013			150,000		30	410,000		30	48,000		30	130,000		30	170,000		30	85,000		30	150,000		30	150,000		30	100,000		30
December 2013																											150,000		30
March 2014																											120,000		30
October 2014			140,000		30	430,000		30	69,000		30	120,000		30	170,000		30	82,000		30	150,000		30	140,000		30	140,000		30
Mean			**157,600**			**363,000**			**54,380**			**126,800**			**178,200**			**87,360**			**155,000**			**154,600**			**124,000**		
Standard Deviation			**14,011**			**83,435**			**10,760**			**6,979**			**17,094**			**13,459**			**6,782**			**12,033**			**20,736**		
Mean + 3 Standard Deviations			**199,632**			**613,304**			**86,659**			**147,736**			**229,482**			**127,737**			**175,347**			**190,700**			**186,209**		
May 2012	Chromium (ug/l)	50	2	U	2	2	U	2	2	U	2	2	U	2															
June 2012(2)	CAS #7440-47-3		0.4	J	0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2															
August 2012															1.1	J	1.0	**126.6**		1.0	1.5		0.2	0.4	J	0.2			
February 2013			0.3	J	0.2	1.2		0.2	0.3	J	0.2	0.2	J	0.2	0.3	J	0.2	0.4	J	0.2	0.4	J	0.2	0.8	J	0.2			
May 2013			0.31	J	0.20	0.28	J	0.20	0.21	J	0.20	0.21	J	0.20	0.2	U	0.20	0.25	J	0.20	0.35	J	0.20	0.28	J	0.20	0.4	J	0.20
August 2013			0.92	J	0.20	1.54	J	0.40	0.87	J	0.20	1.02		0.20	1.15		0.20	0.89	J	0.20	0.98	J	0.20	1.06		0.20	1.17		0.20
December 2013																											0.83	J	0.20
March 2014																											1.05		0.20
Mean			**0.48**			**0.81**			**0.40**			**0.41**			**0.69**			**32.04**			**0.81**			**0.64**			**0.86**		
Standard Deviation			**0.30**			**0.67**			**0.32**			**0.41**			**0.51**			**63.04**			**0.54**			**0.36**			**0.34**		
Mean + 3 Standard Deviations			**1.37**			**2.81**			**1.35**			**1.63**			**2.21**			**221.17**			**2.44**			**1.72**			**1.88**		
May 2012	Chromium,	50	1	U	1	1	U	1	1	U	1	1	U	1															
June 2012	Hexavalent (ug/l)																												
August 2012	CAS #18540-29-9														1	U	1	NA			1	J	1	1	U	1			
February 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1			
May 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	J	1	1	J	1	1	J	1	1	U	1	1	J	1
August 2013			1	U	1	1	U	1	1	J	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1
December 2013																											3	U	3
March 2014																											3	U	3
Mean			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**2.0**		
Standard Deviation			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**1.2**		
Mean + 3 Standard Deviations			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**5.5**		
May 2012	Cobalt (ug/l)	No Standard	2	U	2	2	U	2	2	U	2	2	U	2															
June 2012(2)	CAS #7440-48-4		0.1	U	0.1	0.1	J	0.1	0.1	U	0.1	0.3	J	0.1															
August 2012															0.5	U	0.5	70.1		0.5	0.5	J	0.1	0.1	U	0.1			
February 2013			0.4	J	0.1	1		0.1	0.3	J	0.1	0.2	J	0.1	0.2	J	0.1	0.5		0.1	0.9		0.1	0.4	J	0.1			
May 2013			1.1		0.10	1.47		0.10	0.12	J	0.10	0.29	J	0.10	0.2	J	0.10	0.67		0.10	0.14	J	0.10	0.1	U	0.10	0.5		0.10
August 2013			0.62		0.10	1.81		0.20	0.11	J	0.10	0.46	J	0.10	0.27	J	0.10	0.56		0.10	0.24	J	0.10	0.25	J	0.10	0.66		0.10
December 2013																											0.54		0.10
March 2014																											0.86		0.10
Mean			**0.56**			**1.10**			**0.16**			**0.31**			**0.29**			**17.96**			**0.45**			**0.21**			**0.64**		
Standard Deviation			**0.42**			**0.74**			**0.10**			**0.11**			**0.14**			**34.76**			**0.34**			**0.14**			**0.16**		
Mean + 3 Standard Deviations			**1.82**			**3.32**			**0.44**			**0.64**			**0.72**			**122.24**			**1.46**			**0.64**			**1.12**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Copper (ug/l)	200	5	U	5	5	U	5	5	U	5	5	U	5															
June 2012(2)	CAS #7440-50-8		0.2	J	0.1	0.3	J	0.1	0.1	U	0.1	0.2	J	0.1															
August 2012															1.2	J	0.5	77.8		0.5	1		0.1	0.4	J	0.1			
February 2013			0.2	J	0.1	0.9	J	0.1	0.1	U	0.1	0.2	J	0.1	0.1	U	0.1	0.97	J	0.10	0.2	J	0.1	0.8	J	0.1			
May 2013			0.35	J	0.10	0.42	J	0.10	0.22	J	0.10	0.15	J	0.10	0.1	U	0.10	0.35	J	0.10	0.24	J	0.10	0.12	J	0.10	0.69	J	0.10
August 2013			0.64	J	0.10	2.01		0.20	0.54	J	0.10	0.68	J	0.10	0.73	J	0.10	0.88	J	0.10	0.84	J	0.10	0.81	J	0.10	1.07		0.10
December 2013																											0.71	J	0.10
March 2014																											1.31		0.10
Mean			**0.35**			**0.91**			**0.24**			**0.31**			**0.53**			**20.00**			**0.57**			**0.53**			**0.95**		
Standard Deviation			**0.21**			**0.78**			**0.21**			**0.25**			**0.54**			**38.53**			**0.41**			**0.33**			**0.30**		
Mean + 3 Standard Deviations			**0.97**			**3.25**			**0.86**			**1.06**			**2.14**			**135.60**			**1.80**			**1.54**			**1.84**		
May 2012	Iron (ug/l)	300	**2,000**		20	**2,000**		20	**1,500**		20	**500**		20															
June 2012(2)	CAS #7439-89-6		111		13	33	J	13	39	J	13	32	J	13															
August 2012															**1,410**		65	**150,000**		65	**4,200**		13	**1,090**		13			
February 2013			**369**		13	**1,750**		13	**310**		13	**520**		0.13	**2,280**		13	**333**		13	**714**		13	**1,170**		13			
May 2013			251		13.0	201		13.0	277		13.0	291		13.0	**2,236**		13.0	122		13.0	**2,340**		13.0	**1,220**		13.0	84.6		13.0
August 2013			**1,110**		13.0	**3,210**		26.0	**1,020**		13.0	**1,160**		13.0	**2,370**		13.0	**341**		13.0	**2,200**		13.0	**1,660**		13.0	**702**		13.0
December 2013																											225		13.0
March 2014																											**596**		13.0
October 2014			**2,440**		12	**1,990**		12	**2,050**		12	**669**		12	**3,360**		12	**592**		12	**2,380**		12	**1,750**		12	**448**		12
Mean			**856.2**			**1,436.8**			**739.2**			**534.4**			**2,331.2**			**30,277.6**			**2,366.8**			**1,378.0**			**411.1**		
Standard Deviation			**965.9**			**1,327.2**			**819.3**			**424.7**			**692.9**			**66,927.1**			**1,237.0**			**303.8**			**255.6**		
Mean + 3 Standard Deviations			**3,753.9**			**5,418.5**			**3,197.2**			**1,808.4**			**4,409.8**			**231,058.8**			**6,077.9**			**2,289.3**			**1,178.0**		
May 2012	Lead (ug/l)	25	3	U	3	3	U	3	3	U	3	3	U	3															
June 2012(2)	CAS 37439-92-1		0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2															
August 2012															1	U	1.0	14.1		1.0	0.2	J	0.2	0.2	U	0.2			
February 2013			0.2	U	0.2	1.4		0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	0.3	J	0.2			
May 2013			0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20
August 2013			0.2	J	0.20	0.71	J	0.40	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.45	J	0.20
December 2013																											0.23	J	0.20
March 2014																											0.65	J	0.20
October 2014			0.97	J	0.12	0.69	J	0.12	0.12	U	0.12	0.12	U	0.12	0.23	J	0.12	0.12	U	0.12	0.28	J	0.12	0.15	J	0.12	0.2	J	0.1
Mean			**0.4**			**0.6**			**0.2**			**0.2**			**0.4**			**3.0**			**0.2**			**0.2**			**0.3**		
Standard Deviation			**0.3**			**0.5**			**0.0**			**0.0**			**0.4**			**6.2**			**0.0**			**0.1**			**0.2**		
Mean + 3 Standard Deviations			**1.4**			**2.1**			**0.3**			**0.3**			**1.4**			**21.6**			**0.3**			**0.4**			**0.9**		
May 2012	Magnesium (ug/l)	35,000 (GV)	**68,000**		50	**83,000**		50	19,000		50	**44,000**		50															
June 2012(2)	CAS #7439-95-4		**76,600**		230	**57,000**		230	29,900		23	**46,300**		23															
August 2012															**85,200**		115	**68,200**		115	**65,200**		115	**57,800**		115			
February 2013			**82,200**		115	**126,000**		230	**39,400**		23	**55,800**		115	**83,500**		115	**43,600**		23	**67,200**		115	**68,800**		23			
May 2013			**63,400**		230	**76,800**		230	**42,000**		23	**54,800**		230	**82,000**		40	**64,000**		40	**65,300**		230	**65,600**		230	**39,000**		40
August 2013			**65,000**		10	**140,000**		10	35,000		10	**50,000**		10	**71,000**		10	**47,000**		10	**62,000**		10	**56,000**		10	**41,000**		10
December 2013																											**59,000**		10
March 2014																											**52,000**		10
October 2014			**59,000**		10	**130,000**		10	**60,000**		10	**56,000**		10	**80,000**		10	**52,000**		10	**70,000**		10	**62,000**		10	**62,000**		10
Mean			**69,240**			**105,960**			**41,260**			**52,580**			**80,340**			**54,960**			**65,940**			**62,040**			**50,600**		
Standard Deviation			**9,735**			**36,693**			**11,439**			**4,275**			**5,561**			**10,703**			**2,939**			**5,311**			**10,359**		
Mean + 3 Standard Deviations			**98,445**			**216,040**			**75,578**			**65,404**			**97,024**			**87,068**			**74,757**			**77,973**			**81,676**		
May 2012	Manganese (ug/l)	300	**349**		1	**450**		1	91		1	275		1															
June 2012(2)	CAS #7439-96-5		**359.5**		0.1	**948.2**		1	82.1		0.1	257.6		0.1															
August 2012															285		0.5	**2,473**		1.0	**406.7**		0.1	**389.5**		0.1			
February 2013			**334.3**		0.1	**516.6**		1.0	107.4		0.1	289.6		0.1	**370.2**		0.1	166.4		0.1	**498.6**		0.5	**439**		0.1			
May 2013			**349.8**		0.10	**451.6**		0.10	100.9		0.10	**318**		0.10	**349.7**		0.10	210		0.10	**389.9**		0.10	**407.3**		0.10	**726.5**		0.50
August 2013			**307.3**		0.10	**629**		0.20	69.95		0.10	**303.6**		0.10	**336.4**		0.10	187.4		0.10	**386.7**		0.10	**371.4**		0.10	**1,066**		1.0
December 2013																											**948**		0.10
March 2014																											**1,210**		0.50
October 2014			**351.6**		0.3	**754.6**		6.04	107.4		0.3	285.2		0.3	**353.5**		0.3	151.6		0.3	**419.3**		0.3	**376.8**		0.3	**1,045**		3
Mean			**340.5**			**660.0**			**93.6**			**290.8**			**339.0**			**637.7**			**420.2**			**396.8**			**999.1**		
Standard Deviation			**20.7**			**198.1**			**16.8**			**22.6**			**32.5**			**1,026.2**			**45.7**			**27.3**			**178.9**		
Mean + 3 Standard Deviations			**402.6**			**1,254.3**			**143.9**			**358.5**			**436.4**			**3,716.3**			**557.5**			**478.8**			**1,535.7**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Mercury (ug/l)	0.7	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
June 2012(2)	CAS #7439-97-6		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.1	U	0.1	0.1	J	0.1	0.1	U	0.1	0.1	U	0.1			
February 2013			0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1			
May 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
August 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
December 2013																											0.06	U	0.06
March 2014																											0.06	U	0.06
Mean			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.06**		
Standard Deviation			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.00**		
Mean + 3 Standard Deviations			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.06**		
May 2012	Nickel (ug/l)	100	3	U	3	3	U	3	3	U	3	3	U	3															
June 2012(2)	CAS #7440-02-0		0.3	J	0.1	0.4	J	0.1	0.6		0.1	0.9		0.1															
August 2012															0.5	U	0.5	**143.2**		0.5	1.1		0.1	0.2	J	0.1			
February 2013			0.7		0.1	2.2		0.1	1.6		0.1	0.3	J	0.1	0.2	J	0.1	0.8		0.1	1.6		0.1	0.6		0.1			
May 2013			0.9		0.10	1.21		0.10	0.34	J	0.10	0.47		0.10	0.51		0.10	0.76		0.10	0.51		0.10	0.12	J	0.10	3.02		0.10
August 2013			1.27		0.10	4.38		0.20	0.59		0.10	1.42		0.10	1.35		0.10	1.11		0.10	1.34		0.10	1.23		0.10	2.93		0.10
December 2013																											4.53		0.10
March 2014																											4.38		0.10
Mean			**0.79**			**2.05**			**0.78**			**0.77**			**0.64**			**36.47**			**1.14**			**0.54**			**3.72**		
Standard Deviation			**0.40**			**1.72**			**0.56**			**0.50**			**0.49**			**71.16**			**0.47**			**0.51**			**0.86**		
Mean + 3 Standard Deviations			**2.01**			**7.21**			**2.46**			**2.27**			**2.12**			**249.93**			**2.53**			**2.06**			**6.29**		
May 2012	Potassium (ug/l)	No Standard	12,000		800	7,100		800	55,000		800	9,800		800															
June 2012(2)	CAS #7440-09-7		21,200		27	18,900		27	44,100		27	6,870		27															
August 2012															59,800		135	70,800		135	8,390		27	2,840		27			
February 2013			7,960		27	7,570		27	43,800		27	5,560		27	28,400		27	51,000		135	6,620		27	3,460		27			
May 2013			5,970		27	4,830		27	34,900		27	5,180		27	20,900		27	25,700		27	4,550		27	3,160		27	16,800		27
August 2013			6,060		27	6,110		54	33,200		27	5,120		27	19,800		27	34,100		27	4,030		27	2,860		27	19,300		27
December 2013																											15,900		27
March 2014																											14,500		27
October 2014			5,100		19.3	4,680		19.3	26,400		19.3	3,980		19.3	19,000		19.3	28,700		19.3	1,550		19.3	1,300		19.3	15,300		19
Mean			**9,258**			**8,418**			**36,480**			**5,342**			**29,580**			**42,060**			**5,028**			**2,724**			**16,360**		
Standard Deviation			**6,757**			**5,974**			**7,525**			**1,038**			**17,303**			**18,811**			**2,606**			**835**			**1,846**		
Mean + 3 Standard Deviations			**29,529**			**26,341**			**59,055**			**8,457**			**81,489**			**98,493**			**12,845**			**5,230**			**21,898**		
May 2012	Selenium (ug/l)	10	3	U	3	3	U	3	3	U	3	3	U	3															
June 2012(2)	CAS #7782-49-2		0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3															
August 2012															2	U	2	2	J	2	0.3	U	0.3	0.3	U	0.3			
February 2013			0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3			
May 2013			0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30
August 2013			0.91	J	0.30	3.29	J	0.60	0.31	J	0.30	0.78	J	0.30	1.12	J	0.30	0.8	J	0.30	0.89	J	0.30	0.92	J	0.30	0.6	J	0.30
December 2013																											0.3	U	0.30
March 2014																											0.3	U	0.30
Mean			**0.45**			**1.05**			**0.30**			**0.42**			**0.93**			**0.85**			**0.45**			**0.46**			**0.38**		
Standard Deviation			**0.31**			**1.50**			**0.01**			**0.24**			**0.81**			**0.80**			**0.30**			**0.31**			**0.15**		
Mean + 3 Standard Deviations			**1.37**			**5.53**			**0.32**			**1.14**			**3.36**			**3.26**			**1.33**			**1.39**			**0.83**		
May 2012	Silver (ug/l)	50	2	U	2	2	U	2	2	U	2	2	U	2															
June 2012(2)	CAS #7440-22-4		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.5	U	0.5	2.9		0.5	0.6		0.1	0.8		0.1			
February 2013			0.2	J	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1			
May 2013			0.1	U	0.10	0.19	J	0.10	0.13	J	0.10	0.15	J	0.10	0.1	U	0.10	0.1	U	0.10	0.18	J	0.10	0.14	J	0.10	0.1	U	0.10
August 2013			0.1	U	0.10	0.2	U	0.20	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
December 2013																											0.1	U	0.10
March 2014																											0.1	U	0.10
Mean			**0.13**			**0.15**			**0.11**			**0.11**			**0.20**			**0.80**			**0.25**			**0.29**			**0.10**		
Standard Deviation			**0.05**			**0.06**			**0.01**			**0.03**			**0.20**			**1.40**			**0.24**			**0.34**			**0.00**		
Mean + 3 Standard Deviations			**0.28**			**0.31**			**0.15**			**0.19**			**0.80**			**5.00**			**0.96**			**1.32**			**0.10**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Sodium (ug/l)	20,000	**140,000**		800	**140,000**		800	**51,000**		800	**35,000**		800															
June 2012(2)	CAS #7440-23-5		**79,300**		150	**81,300**		150	**30,900**		15	**31,600**		15															
August 2012															**87,900**		75	**56,600**		75	**30,700**		15	**34,100**		15			
February 2013			**160,000**		75	**253,000**		150	**35,200**		15	**38,000**		15	**83,600**		75	**49,500**		75	**43,000**		15	**46,400**		15			
May 2013			**162,000**		150	**123,000**		150	**28,500**		15	**42,300**		15	**68,400**		75	19,300		15	**31,800**		15	**42,000**		15	**52,800**		75
August 2013			**138,000**		150	**279,000**		300	**27,000**		15	**33,900**		15	**67,700**		150	**28,500**		15	**33,700**		15	**37,200**		15	**52,500**		150
December 2013																											**52,000**		15
March 2014																											**48,400**		15
October 2014			**131,000**		322	**340,000**		322	**24,900**		16.1	**34,800**		16.1	**51,400**		322	**30,300**		16.1	**33,100**		16.1	**36,800**		16.1	**44,100**		161
Mean			**134,060**			**215,260**			**29,300**			**36,120**			**71,800**			**36,840**			**34,460**			**39,300**			**49,960**		
Standard Deviation			**33,455**			**108,977**			**3,958**			**4,148**			**14,517**			**15,578**			**4,914**			**4,884**			**3,723**		
Mean + 3 Standard Deviations			**234,426**			**542,192**			**41,174**			**48,564**			**115,351**			**83,574**			**49,201**			**53,951**			**61,130**		
May 2012	Thallium (ug/l)	0.5 (GV)	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	J	0.03															
June 2012(2)	CAS #7440-28-0		0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03															
August 2012															0.2	U	0.2	0.2	U	0.2	0.03	U	0.03	0.03	U	0.03			
February 2013			0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03			
May 2013			0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.5	J	0.03	0.25	J	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03
August 2013			0.03	U	0.03	0.06	U	0.06	0.03	U	0.03	0.04	J	0.03	0.03	U	0.03	0.08	J	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03
December 2013																											0.03	U	0.03
March 2014																											0.03	U	0.03
Mean			**0.03**			**0.04**			**0.03**			**0.03**			**0.19**			**0.14**			**0.03**			**0.03**			**0.03**		
Standard Deviation			**0.00**			**0.02**			**0.00**			**0.01**			**0.22**			**0.10**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.03**			**0.08**			**0.03**			**0.05**			**0.85**			**0.45**			**0.03**			**0.03**			**0.03**		
May 2012	Vanadium (ug/l)	No Standard	2	U	2	2	U	2	2	U	2	2	U	2															
June 2012(2)	CAS #7440-62-2		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.2	J	0.1															
August 2012															0.5	U	0.5	89		0.5	0.1	U	0.1	0.1	U	0.1			
February 2013			0.2	J	0.1	0.8	J	0.1	0.1	J	0.1	0.3		0.01	0.1	U	0.1	0.2	J	0.1	0.2	J	0.1	0.2	J	0.1			
May 2013			0.28	J	0.10	0.1	U	0.10	0.1	U	0.10	0.13	J	0.10	0.1	U	0.10	0.82	J	0.10	0.1	U	0.10	0.1	U	0.10	0.83	J	0.10
August 2013			0.19	J	0.10	0.25	J	0.20	0.1	U	0.10	0.31	J	0.10	0.28	J	0.10	0.72	J	0.10	0.16	J	0.10	0.24	J	0.10	1.55	J	0.10
December 2013																											1.41	J	0.10
March 2014																											1.51	J	0.10
Mean			**0.19**			**0.31**			**0.10**			**0.24**			**0.25**			**22.69**			**0.14**			**0.16**			**1.33**		
Standard Deviation			**0.07**			**0.33**			**0.00**			**0.09**			**0.19**			**44.21**			**0.05**			**0.07**			**0.34**		
Mean + 3 Standard Deviations			**0.41**			**1.31**			**0.10**			**0.49**			**0.82**			**155.32**			**0.29**			**0.37**			**2.33**		
May 2012	Zinc (ug/l)	2,000 (GV)	27	J	5	23	J	5	19	J	5	17	J	5															
June 2012(2)	CAS #7440-66-6		10.4		1.2	15.9		1.2	11.2		1.2	12.6		1.2															
August 2012															11.9	J	6.0	276.6		12.0	14.6		1.2	10		1.2			
February 2013			8.4	J	1.2	9.3	J	1.2	7	J	1.2	7.5	J	1.2	2.4	J	1.2	7.5	J	1.2	10.2		1.2	10.7		1.2			
May 2013			14.55		1.20	8.23	J	1.20	14.92		1.20	8.37	J	1.20	6.68	J	1.20	6.82	J	1.20	8.4	J	1.20	14.9		1.20	8.07	J	1.20
August 2013			13.96		1.20	16.37	J	2.40	10.76		1.20	12.57		1.20	11.65		1.20	13.69		1.20	11.68		1.20	13.57		1.20	13.66		1.20
December 2013																											2.33	J	1.20
March 2014																											4.21	J	1.20
Mean			**11.83**			**12.45**			**10.97**			**10.26**			**8.16**			**76.15**			**11.22**			**12.29**			**7.07**		
Standard Deviation			**2.93**			**4.28**			**3.24**			**2.71**			**4.53**			**133.67**			**2.62**			**2.33**			**5.00**		
Mean + 3 Standard Deviations			**20.62**			**25.30**			**20.68**			**18.38**			**21.74**			**477.15**			**19.09**			**19.27**			**22.08**		
Volatile Organics																													
May 2012	Acetone (ug/l)	50 (GV)	1.5	J	1.0	1.0	U	1.0	**51**		1.0	2	J	1.0															
June 2012	CAS #67-64-1																												
August 2012															1.9	J	1.0	**57**		1.0	1.1	J	1.0	1.0	U	1.0			
February 2013			1.0	U	1.0	1.0	U	1.0	3.9	J	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0			
May 2013			1.0	U	1.0	1.0	U	1.0	2	J	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.5	J	1.0
August 2013			1.5	J	1.0	2	J	1.0	2.1	J	1.0	1.0	U	1.0	2.1	J	1.0	1.3	J	1.0	1.5	J	1.0	1.6	J	1.0	2	J	1.0
December 2013																											1.0	U	1.0
March 2014																											1.0	U	1.0
October 2014			1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.6	J	1.5
Mean			**1.3**			**1.3**			**12.1**			**1.3**			**1.5**			**12.4**			**1.2**			**1.2**			**1.4**		
Standard Deviation			**0.3**			**0.4**			**21.8**			**0.4**			**0.5**			**25.0**			**0.3**			**0.3**			**0.4**		
Mean + 3 Standard Deviations			**2.1**			**2.6**			**77.4**			**2.6**			**3.0**			**87.2**			**2.0**			**2.1**			**2.7**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Benzene (ug/l)	1	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19															
June 2012	CAS #71-43-2																												
August 2012															0.72		0.19	**1.2**		0.19	0.19	U	0.19	0.19	U	0.19			
February 2013			0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.22	J	0.19	0.55		0.19	0.19	U	0.19	0.19	U	0.19			
May 2013			0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.24	J	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19
August 2013			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.25	J	0.16	0.38	J	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
December 2013																											0.16	U	0.16
March 2014																											0.16	U	0.16
October 2014			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.2	J	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
Mean			**0.18**			**0.18**			**0.18**			**0.18**			**0.35**			**0.51**			**0.18**			**0.18**			**0.18**		
Standard Deviation			**0.02**			**0.02**			**0.02**			**0.02**			**0.25**			**0.42**			**0.02**			**0.02**			**0.02**		
Mean + 3 Standard Deviations			**0.23**			**0.23**			**0.23**			**0.23**			**1.10**			**1.75**			**0.23**			**0.23**			**0.24**		
May 2012	2-Butanone (ug/l)	50 (GV)	1	U	1.0	1	U	1.0	2.1	J	1.0	1	U	1.0															
June 2012	CAS #78-93-3																												
August 2012															1	U	1.0	7.3		1.0.	1	U	1.0	1	U	1.0			
February 2013			1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0			
May 2013			1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0
August 2013			1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0	1	U	1.0
December 2013																											1	U	1.0
March 2014																											1	U	1.0
October 2014			1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9
Mean			**1.2**			**1.2**			**1.4**			**1.2**			**1.2**			**2.4**			**1.2**			**1.2**			**1.2**		
Standard Deviation			**0.4**			**0.4**			**0.6**			**0.4**			**0.4**			**2.7**			**0.4**			**0.4**			**0.4**		
Mean + 3 Standard Deviations			**2.4**			**2.4**			**3.1**			**2.4**			**2.4**			**10.7**			**2.4**			**2.4**			**2.4**		
May 2012	Carbon disulfide	60 (GV)	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0															
June 2012	(ug/l)																												
August 2012	CAS #75-15-0														1.0	U	1.0	1.6	J	1.0	1.0	U	1.0	1.0	U	1.0			
February 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0			
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
December 2013																											1.0	U	1.0
March 2014																											1.0	U	1.0
October 2014			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1.0	U	1
Mean			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.1**			**1.0**			**1.0**			**1.0**		
Standard Deviation			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.3**			**0.0**			**0.0**			**0.0**		
Mean + 3 Standard Deviations			**1.0**			**1.0**			**1.0**			**1.0**			**1.0**			**1.9**			**1.0**			**1.0**			**1.0**		
May 2012	Chloroform (ug/l)	7	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70															
June 2012	CAS #67-66-3																												
August 2012															0.70	U	0.70	1.4	J	0.70	0.70	U	0.70	0.70	U	0.70			
February 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70			
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013																											0.70	U	0.70
March 2014																											0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.84**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.31**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**1.78**			**0.70**			**0.70**			**0.70**		
May 2012	Methylene	5	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70															
June 2012	Chloride (ug/l)																												
August 2012	Cas #75-09-2														0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70			
February 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70			
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013																											0.70	U	0.70
March 2014																											0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-22			MW2012-23			MW2012-24			MW2012-25			MW2012-30			MW2012-31			MW2012-32			MW2012-33			MW2013-40		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Toluene	5	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70															
June 2012	(ug/l)																												
August 2012	CAS #108-88-3														0.70	U	0.70	1.3	J	0.70	0.70	U	0.70	0.70	U	0.70			
February 2012			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70			
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013																											0.70	U	0.70
March 2014																											0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.82**			**0.70**			**0.70**			**0.7**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.27**			**0.00**			**0.00**			**0.0**		
Mean + 3 Standard Deviations			**0.7**			**0.7**			**0.7**			**0.7**			**0.7**			**1.6**			**0.7**			**0.7**			**0.7**		
May 2012	Trichloroethene(4)	5	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17															
June 2012	(ug/l)																												
August 2012	CAS #79-01-6														0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17			
February 2012			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17			
May 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
August 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
December 2013																											0.17	U	0.17
March 2014																											0.41	J	0.17
October 2014			0.18	U	0.18	0.18	U	0.18	0.18	U	0.18	0.18	U	0.18	**13**		0.18	**11**		0.18	0.18	U	0.18	0.18	U	0.18	**6.8**		0.18
Mean			**0.17**			**0.17**			**0.17**			**0.17**			**2.74**			**2.34**			**0.17**			**0.17**			**1.54**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**5.74**			**4.84**			**0.00**			**0.00**			**2.94**		
Mean + 3 Standard Deviations			**0.19**			**0.19**			**0.19**			**0.19**			**19.95**			**16.87**			**0.19**			**0.19**			**10.36**		

Notes:

(1) NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998, and Addenda dated April 2000 and June 2004.

(2) June 2012 groundwater samples were collected for "filtered" metals analysis only from Monitoring Wells MW2012-22 to MW2012-25 due to matrix interference from samples analyzed from the May 2012 sampling event. The matrix interference is believed to have been caused by high silt content in groundwater from the recently installed wells. Due to matrix interference, the May 2012 analytical results for metals and color, and the field measurement for turbidity, will not be included in the calculation of the mean and standard deviation.

(3) Non-detect analytical results are given a value of "0" if there is no associated laboratory MDL for the analyzed parameter.

(4) Trichloroethene was detected in groundwater from monitoring wells sampled in March 2014 only. The detection of Trichloroethene is believed to be an anomally, as it was not detected in the laboratory's internal QA/QC samples and trip blank sample. Analytical results from a sample collected by passing tap water through the same sampling equipment used during the March 2014 groundwater sampling did not show the presence of Trichloroethene.

This table summarizes detections only for VOC parameters and does not represent all VOC parameters that were analyzed.

NSD denotes that the monitoring well was dry at time of sampling.

GV denotes a Guidance Value.

NA denotes Not Applicable.

U indicates that the parameter was analyzed for but not detected. The analytical result is reported as the MDL.

J indicates an estimated value. The analytical result lies between the Laboratory's Method Detection Limit (MDL) and Reporting Limit (RL).

Parameter concentrations in bold have exceeded their respective groundwater standard and/or guidance value

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

Sampling Date	Parameter	NYSDEC Standard [1]	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
			Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	PH (Standard Units)	6.5 - 8.5																														
June 2012	(field measured)																															
August 2012																																
February 2013																																
May 2013			7.84			7.67			8.01			7.13			7.44			7.4			7.47			7.38			7.07			7.45		
August 2013			8.02			7.85			8.25			7.59			7.87			8.11			7.65			7.85			7.43			7.69		
December 2013			7.73			7.48			7.78			7.17			7.47			7.35			7.5			7.34			7.72			7.79		
March 2014			7.61			7.47			7.75			7.08			7.34			7.6			7.53			7.43			6.97			7.6		
October 2014			7.8			7.72			8.3			7.25			7.43			7.76			7.64			7.39			7.58			7.07		
Mean			**7.80**			**7.64**			**8.02**			**7.24**			**7.51**			**7.64**			**7.56**			**7.48**			**7.35**			**7.52**		
Standard Deviation			**0.15**			**0.16**			**0.26**			**0.20**			**0.21**			**0.31**			**0.08**			**0.21**			**0.32**			**0.28**		
Mean + 3 Standard Deviations			**8.25**			**8.13**			**8.79**			**7.85**			**8.13**			**8.57**			**7.80**			**8.11**			**8.32**			**8.36**		
May 2012	Turbidity (NTU)	5 NTU																														
June 2012[2]	(field measured)																															
August 2012																																
February 2013																																
May 2013			**9.99**			4.98			**6.29**			**9.18**			**6.65**			**9.66**			**21.7**			**8.83**			**5.44**			**5.55**		
August 2013			**12.4**			**34.7**			**30.4**			**16.6**			**12.7**			**7.92**			**14.4**			**8.22**			**11.8**			**7.93**		
December 2013			4.36			NA			**6.43**			**8.46**			**12**			**15.2**			3.15			**6.86**			**7.6**			4.45		
March 2014			**11.9**			**14.3**			**12.33**			**16**			**26.6**			**8.01**			**7.47**			**12.3**			**6.6**			**17.5**		
October 2014			**14.5**			**36.5**			**51.1**			**19.1**			**37.8**			**11.05**			**14.4**			**39**			**9.54**			**41.6**		
Mean			**10.63**			**22.62**			**21.31**			**13.87**			**19.15**			**10.37**			**12.22**			**15.04**			**8.20**			**15.41**		
Standard Deviation			**3.86**			**15.48**			**19.35**			**4.76**			**12.77**			**2.99**			**7.14**			**13.54**			**2.51**			**15.52**		
Mean + 3 Standard Deviations			**22.20**			**69.06**			**79.36**			**28.15**			**57.46**			**19.35**			**33.66**			**55.67**			**15.74**			**61.97**		
May 2012	Specific	No Standard																														
June 2012	Conductivity (uS)																															
August 2012	(field measured)																															
February 2013																																
May 2013			804			747			868			3,510			1,201			1,218			1,045			2,920			4,230			3,750		
August 2013			823			736			795			4,550			1,143			1,058			937			1,228			3,850			2,560		
December 2013			702			630			717			4,090			962			951			845			1,610			3,560			2,330		
March 2014			984			843			1,044			523			1,287			1,264			1,179			2,320			5,560			2,650		
October 2014			931			815			867			5,590			1,284			1,163			1,043			2,800			4,510			4,890		
Mean			**848.8**			**754.2**			**858.2**			**3,652.6**			**1175.4**			**1130.8**			**1,009.8**			**2,175.6**			**4,342.0**			**3,236.0**		
Standard Deviation			**111.0**			**82.8**			**121.1**			**1,908.2**			**133.7**			**126.5**			**125.9**			**738.7**			**771.0**			**1,074.8**		
Mean + 3 Standard Deviations			**1,182**			**1,002**			**1,221**			**9,377**			**1,576**			**1,510**			**1,388**			**4,392**			**6,655**			**6,461**		
May 2012	Color (CPU)	15 Apha																														
June 2012[2]																																
August 2012																																
February 2013																																
May 2013			5.0	U	5.0	5.0	U	5.0	13		5.0	6		5.0	12		5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	7		5.0
August 2013			5.0	U	5.0	5.0	U	5.0	**18**		5.0	12		5.0	9		5.0	5.0	U	5.0	7		5.0	7		5.0	7		5.0	**21**		5.0
December 2013			10		5.0	14		5.0	**17**		5.0	14		5.0	12		5.0	8		5.0	5.0	U	5.0	12		5.0	12		5.0	**18**		5.0
March 2014			**52**		10	14		5.0	6		5.0	**20**		5.0	**29**		5.0	9		5.0	5.0	U	5.0	9		5.0	10		5.0	15		5.0
Mean			**18.00**			**9.50**			**13.50**			**13.00**			**15.50**			**6.75**			**5.50**			**8.25**			**8.50**			**15.25**		
Standard Deviation			**22.79**			**5.20**			**5.45**			**5.77**			**9.11**			**2.06**			**1.00**			**2.99**			**3.11**			**6.02**		
Mean + 3 Standard Deviations			**86.37**			**25.09**			**29.84**			**30.32**			**42.83**			**12.93**			**8.50**			**17.21**			**17.83**			**33.31**		
May 2012	Total Dissolved	500																														
June 2012	Solids (mg/l)																															
August 2012	CAS #C-010																															
February 2013																																
May 2013			490		4.4	460		4.4	**600**		4.4	**2,400**		4.4	**790**		4.4	**730**		4.4	**670**		4.4	**1,600**		4.4	**2,600**		4.4	**1,400**		4.4
August 2013			500		4.4	**510**		4.4	**550**		4.4	**3,400**		4.4	**750**		4.4	**710**		4.4	**620**		4.4	**820**		4.4	**2,800**		4.4	**2,600**		4.4
December 2013			**510**		3.6	480		3.6	**540**		3.6	**3,300**		3.6	**730**		3.6	**710**		3.6	**620**		3.6	**1,200**		3.6	**2,600**		3.6	**1,400**		3.6
March 2014			**550**		3.6	490		3.6	**540**		3.6	**3,200**		3.6	**770**		3.6	**740**		3.6	**680**		3.6	**1,200**		3.6	**1,500**		7.1	**1,600**		3.6
October 2014			**550**		3.6	490		3.6	**530**		3.6	**3,800**		3.6	**820**		3.6	**670**		3.6	**630**		3.6	**1,900**		3.6	**3,000**		3.6	**3,400**		3.6
Mean			**520**			**486**			**552**			**3,220**			**772**			**712**			**644**			**1,344**			**2,500**			**2,080**		
Standard Deviation			**28**			**18**			**28**			**512**			**35**			**27**			**29**			**416**			**583**			**890**		
Mean + 3 Standard Deviations			**605**			**540**			**635**			**4,756**			**877**			**792**			**730**			**2,591**			**4,249**			**4,750**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Chemical Oxygen	No Standard																														
June 2012	Demand (mg/l)																															
August 2012	CAS #C-004																															
February 2013																																
May 2013			56		3.5	4.9	J	3.5	340		14	12		3.5	9.9	J	3.5	4.9	J	3.5	7.4	J	3.5	15		3.5	40		7.0	15		3.5
August 2013			27		3.5	3.5	U	3.5	120		3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	7.7	J	3.5	7.7	J	3.5
December 2013			3.5	U	3.5	4.4	J	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	10		3.5	4.4	J	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5
March 2014			12		3.5	19		3.5	16		3.5	17	J	14	6.8	J	3.5	12		3.5	3.5	U	3.5	6.8	J	3.5	56		14	6.8	J	3.5
October 2014			28		3.5	19		3.5	3.5	U	3.5	14		3.5	3.5	U	3.5	5	J	3.5	3.5	U	3.5	9.5	J	3.5	9.5	J	3.5	5	J	3.5
Mean			**25.3**			**10.2**			**96.6**			**10.0**			**5.4**			**7.1**			**4.5**			**7.7**			**23.3**			**7.6**		
Standard Deviation			**20.0**			**8.1**			**144.6**			**6.2**			**2.9**			**3.7**			**1.7**			**4.8**			**23.3**			**4.4**		
Mean + 3 Standard Deviations			**85.4**			**34.4**			**530.4**			**28.6**			**14.1**			**18.2**			**9.5**			**22.1**			**93.3**			**20.9**		
May 2012	Biochemical Oxygen	No Standard																														
June 2012	Demand (mg/l)(3)																															
August 2012	CAS #C-003																															
February 2013																																
May 2013			38		NA	0	ND	NA	200		NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	7.1		NA	4.3		NA
August 2013			0	ND	NA	0	ND	NA	62		NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA
December 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA
March 2014			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	2.3		NA	0	ND	NA
October 2014			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	4.3		NA	0	ND	NA
Mean			**7.6**			**0.0**			**52.4**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**2.7**			**0.9**		
Standard Deviation			**17.0**			**0.0**			**86.8**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**3.0**			**1.9**		
Mean + 3 Standard Deviations			**58.6**			**0.0**			**312.7**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**11.8**			**6.6**		
May 2012	Total Organic	No Standard																														
June 2012	Carbon (mg/l)																															
August 2012	CAS #C-012																															
February 2013																																
May 2013			18.6		0.052	3.36		0.052	262		1.04	2.56		0.130	1.77		0.052	1.77		0.052	1.79		0.052	2.54		0.052	3.78		0.052	5.28		0.130
August 2013			2.43		0.052	2.08		0.052	70.4		0.520	1.8		0.052	2.05		0.052	1.77		0.052	1.97		0.052	1.69		0.052	2.13		0.052	2.57		0.052
December 2013			1.42		0.236	1.33		0.236	3.51		0.236	1.89		0.236	2.32		0.236	1.93		0.236	1.86		0.236	1.74		0.236	2.31		0.236	2.5		0.236
March 2014			1.51		0.236	1.21		0.236	2.31		0.236	0.91	J	0.236	1.59		0.236	1.09		0.236	1.24		0.236	0.66	J	0.236	2.01		0.236	1.43		0.236
October 2014			2.01		0.236	0.99		0.118	2.67		0.118	0.4	J	0.118	1		0.118	1.3		0.236	0.95		0.118	0.42	J	0.118	0.5		0.118	0.49	J	0.118
Mean			**5.19**			**1.79**			**68.18**			**1.51**			**1.75**			**1.57**			**1.56**			**1.41**			**2.15**			**2.45**		
Standard Deviation			**7.51**			**0.97**			**112.23**			**0.85**			**0.50**			**0.36**			**0.44**			**0.87**			**1.16**			**1.80**		
Mean + 3 Standard Deviations			**27.71**			**4.69**			**404.87**			**4.08**			**3.25**			**2.65**			**2.89**			**4.01**			**5.64**			**7.84**		
May 2012	Sulfate (mg/l)	250																														
June 2012	CAS #18785-72-3																															
August 2012																																
February 2013																																
May 2013			72.5		0.229	61.3		0.229	44.2		0.229	95.7		0.229	122		2.29	88.4		0.229	86.3		0.229	38.8		0.229	69.3		0.229	61.4		0.229
August 2013			75.9		0.229	71.8		0.229	0.96	J	0.229	73.1		0.229	105		5.72	75.3		0.229	84.4		0.229	51.2		0.229	67.3		0.229	74		0.229
December 2013			85		0.229	73.1		0.229	75.9		0.229	92.5		11.4	136		2.29	87		2.29	92.9		2.29	50		5.72	83.1		11.4	71.8		11.4
March 2014			86.5		2.29	69.9		2.29	76.7		2.29	102		2.29	149		2.29	86.9		2.29	92.5		2.29	50.5		2.29	105		11.4	73.6		2.29
October 2014			86.5		1.3	71.3		0.65	73		0.65	126		6.5	142		1.3	89.8		1.3	105		1.3	59.6		3.25	104		6.5	112		3.25
Mean			**81.3**			**69.5**			**54.2**			**97.9**			**130.8**			**85.5**			**92.2**			**50.0**			**85.7**			**78.6**		
Standard Deviation			**6.6**			**4.7**			**32.7**			**19.1**			**17.5**			**5.8**			**8.1**			**7.4**			**18.2**			**19.4**		
Mean + 3 Standard Deviations			**101.1**			**83.6**			**152.1**			**155.1**			**183.3**			**102.9**			**116.4**			**72.2**			**140.3**			**136.7**		
May 2012	Alkalinity (mg/l)	No Standard																														
June 2012	CAS #10001																															
August 2012																																
February 2013																																
May 2013			361		NA	349		NA	285		NA	338		NA	407		NA	353		NA	378		NA	294		NA	347		NA	398		NA
August 2013			390		NA	390		NA	751		NA	322		NA	386		NA	352		NA	377		NA	349		NA	342		NA	361		NA
December 2013			426		NA	359		NA	407		NA	312		NA	392		NA	344		NA	375		NA	303		NA	328		NA	380		NA
March 2014			421		NA	359		NA	380		NA	323		NA	406		NA	361		NA	365		NA	297		NA	342		NA	400		NA
October 2014			426		NA	389		NA	404		NA	326		NA	406		NA	369		NA	370		NA	295		NA	362		NA	357		NA
Mean			**405**			**369**			**445**			**324**			**399**			**356**			**373**			**308**			**344**			**379**		
Standard Deviation			**29**			**19**			**178**			**9**			**10**			**10**			**5**			**23**			**12**			**20**		
Mean + 3 Standard Deviations			**491**			**426**			**979**			**352**			**429**			**384**			**389**			**378**			**381**			**439**		

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FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Salinity (SU)	No Standard																														
June 2012	CAS #10047																															
August 2012																																
February 2013																																
May 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.1		2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.7		2.0	2.0	U	2.0
August 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	3.6		2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	3		2.0	2.0	U	2.0
December 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	3.6		2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.8		2.0	2.0	U	2.0
March 2014			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	3.1		2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	3.1		2.0	2.0	U	2.0
October 2014			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	3.7		2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.9		2.0	3.4		2.0
Mean			**2.00**			**2.00**			**2.00**			**3.22**			**2.00**			**2.00**			**2.00**			**2.00**			**2.90**			**2.28**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.67**			**0.00**			**0.00**			**0.00**			**0.00**			**0.16**			**0.63**		
Mean + 3 Standard Deviations			**2.00**			**2.00**			**2.00**			**5.23**			**2.00**			**2.00**			**2.00**			**2.00**			**3.37**			**4.16**		
May 2012	Bromide (mg/l)	2 (GV)																														
June 2012	CAS #7726-95-6																															
August 2012																																
February 2013																																
May 2013			0.034	J	0.010	0.1	U	0.010	0.157		0.010	0.221		0.010	0.068		0.010	0.108		0.010	0.115		0.010	0.238		0.010	0.292		0.010	0.117		0.010
August 2013			0.1	U	0.10	0.1	U	0.010	0.142		0.010	0.416		0.010	0.092		0.010	0.117		0.010	0.113		0.010	0.13		0.010	0.364		0.010	0.276		0.010
December 2013			0.029	J	0.010	0.1	U	0.010	0.093		0.010	0.5	U	0.500	0.1	U	0.100	0.1	U	0.100	0.11	J	0.100	0.25	U	0.250	0.5	U	0.500	0.608	J	0.500
March 2014			0.032	J	0.010	0.1	U	0.010	0.124		0.010	0.5	U	0.500	0.1	U	0.100	0.1	U	0.100	0.122	J	0.050	0.25	U	0.250	0.5	U	0.500	0.25	U	0.250
October 2014			0.163	U	0.163	0.081	U	0.081	0.081	U	0.081	0.815	U	0.815	0.163	U	0.163	0.163	U	0.163	0.163	U	0.163	0.408	U	0.408	0.815	U	0.815	0.408	U	0.408
Mean			**0.072**			**0.096**			**0.119**			**0.490**			**0.105**			**0.118**			**0.125**			**0.255**			**0.494**			**0.332**		
Standard Deviation			**0.059**			**0.008**			**0.032**			**0.214**			**0.035**			**0.026**			**0.022**			**0.099**			**0.201**			**0.186**		
Mean + 3 Standard Deviations			**0.249**			**0.122**			**0.216**			**1.133**			**0.210**			**0.197**			**0.190**			**0.553**			**1.096**			**0.889**		
May 2012	Chloride (mg/l)	250																														
June 2012	CAS #16887-00-6																															
August 2012																																
February 2013																																
May 2013			19.7		0.168	11.4		0.168	58.6		1.68	**1,010**		8.40	122		1.68	170		1.68	95.7		1.68	**742**		8.40	**1,300**		8.40	**562**		8.40
August 2013			15.2		0.168	13.8		0.168	42.9		0.168	**1,790**		16.8	159		4.20	176		4.20	97.8		8.40	**257**		4.20	**1,440**		16.8	**1,360**		16.8
December 2013			14.9		0.168	12.7		0.168	25.7		0.168	**1,800**		8.40	139		1.68	197		1.68	107		1.68	**576**		4.20	**1,400**		8.40	**723**		8.40
March 2014			13.9		0.168	10.6		0.168	26.6		0.168	**1,490**		8.40	99.7		1.68	142		1.68	101		0.840	**464**		4.20	**1,600**		8.40	**689**		4.20
October 2014			10.4		0.974	9.58		0.487	21.4		0.487	**1,670**		4.87	127		0.974	128		0.974	92.2		0.974	**870**		2.44	**1,310**		4.870	**1480**		9.74
Mean			**14.8**			**11.6**			**35.0**			**1,552.0**			**129.3**			**162.6**			**98.7**			**581.8**			**1,410.0**			**962.8**		
Standard Deviation			**3.3**			**1.7**			**15.5**			**327.7**			**21.9**			**27.6**			**5.6**			**238.8**			**121.7**			**423.8**		
Mean + 3 Standard Deviations			**24.8**			**16.6**			**81.5**			**2,535.2**			**194.9**			**245.3**			**115.6**			**1,298.2**			**1,775.0**			**2,234.2**		
May 2012	Total Hardness	No Standard																														
June 2012	(mg/l)																															
August 2012																																
February 2013																																
May 2013			420		NA	390		NA	360		NA	1,300		NA	670		NA	610		NA	560		NA	1,100		NA	1,500		NA	760		NA
August 2013			370		NA	420		NA	360		NA	1,600		NA	590		NA	510		NA	480		NA	610		NA	1,600		NA	1,000		NA
December 2013			520		NA	450		NA	410		NA	1,700		NA	600		NA	570		NA	500		NA	880		NA	1,500		NA	850		NA
March 2014			450		NA	380		NA	380		NA	1,600		NA	570		NA	500		NA	490		NA	760		NA	1,600		NA	680		NA
October 2014			490		NA	420		NA	360		NA	1,600		NA	580		NA	500		NA	520		NA	1200		NA	1,400		NA	1400		NA
Mean			**450**			**412**			**374**			**1,560**			**602**			**538**			**510**			**910**			**1,520**			**938**		
Standard Deviation			**59**			**28**			**22**			**152**			**40**			**50**			**32**			**242**			**84**			**284**		
Mean + 3 Standard Deviations			**626**			**495**			**440**			**2,015**			**721**			**687**			**605**			**1,635**			**1,771**			**1,791**		
May 2012	Total Kjeldahl	No Standard																														
June 2012	Nitrogen (mg/l)																															
August 2012	CAS #7727-37-9																															
February 2013																																
May 2013			0.24	J	0.060	0.18	J	0.060	0.37		0.060	0.27	J	0.060	0.37		0.060	0.54		0.060	0.51		0.060	1.3		0.060	1.2		0.060	0.16	J	0.060
August 2013			0.5		0.060	0.060	U	0.060	0.75		0.060	0.37		0.060	0.52		0.060	0.51		0.060	0.6		0.060	0.6		0.060	1.3		0.060	0.27	J	0.060
December 2013			0.13	J	0.093	0.27	J	0.093	0.54		0.093	0.39		0.093	0.32		0.093	0.5		0.093	0.46		0.093	0.65		0.093	1.4		0.093	0.1	J	0.093
March 2014			0.39		0.093	0.23	J	0.093	0.42		0.093	0.4		0.093	0.34		0.093	0.51		0.093	0.75		0.093	0.74		0.093	0.82		0.093	0.4		0.093
October 2014			0.34		0.093	0.23	J	0.093	0.58		0.093	0.27	J	0.093	0.34		0.093	0.43		0.093	0.58		0.093	1.2		0.093	1.1		0.093	0.3		0.093
Mean			**0.32**			**0.23**			**0.53**			**0.34**			**0.38**			**0.50**			**0.58**			**0.90**			**1.16**			**0.25**		
Standard Deviation			**0.14**			**0.04**			**0.15**			**0.06**			**0.08**			**0.04**			**0.11**			**0.33**			**0.22**			**0.12**		
Mean + 3 Standard Deviations			**0.74**			**0.34**			**0.98**			**0.53**			**0.62**			**0.62**			**0.91**			**1.88**			**1.83**			**0.60**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

Sampling Date	Parameter	NYSDEC Standard [1]	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
			Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Nitrogen, Ammonia	No Standard																														
June 2012	(mg/l)																															
August 2012	CAS #7664-41-7																															
February 2013																																
May 2013			0.036	J	0.031	0.047	J	0.031	0.039	J	0.031	0.171		0.031	0.198		0.031	0.369		0.031	0.413		0.031	1.04		0.031	1.04		0.031	0.102		0.031
August 2013			0.053	J	0.031	0.035	J	0.031	0.071	J	0.031	0.124		0.031	0.191		0.031	0.352		0.031	0.433		0.031	0.379		0.031	1.13		0.031	0.123		0.031
December 2013			0.021	U	0.021	0.051	J	0.021	0.083		0.021	0.371		0.021	0.144		0.021	0.314		0.021	0.343		0.021	0.561		0.021	1.1		0.021	0.062	J	0.021
March 2014			0.047	J	0.021	0.021	U	0.021	0.107		0.021	0.165		0.021	0.158		0.021	0.317		0.021	0.378		0.021	0.513		0.021	0.646		0.021	0.059	J	0.021
October 2014			0.021	U	0.021	0.024	J	0.021	0.154		0.021	0.133		0.021	0.165		0.021	0.227		0.021	0.355		0.021	1.03		0.021	0.993		0.021	0.109		0.021
Mean			**0.036**			**0.036**			**0.091**			**0.193**			**0.171**			**0.316**			**0.384**			**0.705**			**0.982**			**0.091**		
Standard Deviation			**0.015**			**0.013**			**0.043**			**0.102**			**0.023**			**0.055**			**0.038**			**0.309**			**0.195**			**0.029**		
Mean + 3 Standard Deviations			**0.080**			**0.076**			**0.220**			**0.498**			**0.239**			**0.480**			**0.499**			**1.631**			**1.567**			**0.178**		
May 2012	Nitrogen, Nitrate	10																														
June 2012	(mg/l)																															
August 2012	CAS #14797-55-8																															
February 2013																																
May 2013			0.015	U	0.015	0.074	J	0.015	0.015	U	0.015	0.028	J	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.047	J	0.015
August 2013			0.015	U	0.015	0.078	J	0.015	0.015	U	0.015	0.015	U	0.015	0.021	J	0.015	0.071	J	0.015	0.018	J	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015
December 2013			0.14		0.015	0.12		0.015	0.045	J	0.015	0.015	U	0.015	0.084	J	0.015	0.047	J	0.015	0.043	J	0.015	0.015	U	0.015	0.074	J	0.015	0.015	U	0.015
March 2014			0.072	J	0.021	0.16		0.021	0.073	J	0.021	0.021	U	0.021	0.021	U	0.021	0.075	J	0.021	0.041	J	0.021	0.021	U	0.021	0.51		0.021	0.044	J	0.021
October 2014			0.14		0.021	0.15		0.021	0.021	U	0.021	0.55		0.021	0.021	U	0.021	0.25		0.021	0.064	J	0.021	0.021	U	0.021	0.33		0.021	0.4		0.021
Mean			**0.076**			**0.116**			**0.034**			**0.126**			**0.032**			**0.092**			**0.036**			**0.017**			**0.189**			**0.104**		
Standard Deviation			**0.063**			**0.040**			**0.025**			**0.237**			**0.029**			**0.092**			**0.020**			**0.003**			**0.222**			**0.166**		
Mean + 3 Standard Deviations			**0.264**			**0.236**			**0.109**			**0.837**			**0.119**			**0.367**			**0.097**			**0.027**			**0.854**			**0.602**		
May 2012	Total Phenols (mg/l)	0.001																														
June 2012	CAS #C-020																															
August 2012																																
February 2013																																
May 2013			**0.020**	J	0.009	0.009	U	0.009	**0.030**		0.009	**0.020**	J	0.009	**0.020**	J	0.009	**0.010**	J	0.009	**0.020**	J	0.009	**0.020**	J	0.009	**0.020**	J	0.009	**0.020**	J	0.009
August 2013			**0.010**	J	0.009	**0.020**	J	0.009	**0.020**	J	0.009	**0.060**		0.009	**0.040**		0.009	**0.020**	J	0.009	**0.030**		0.009	**0.040**		0.009	**0.040**		0.009	**0.040**		0.009
December 2013			**0.040**		0.012	**0.040**		0.012	**0.030**		0.012	**0.030**		0.012	**0.040**		0.012	**0.020**	J	0.012	**0.030**		0.012	0.012	U	0.012	**0.020**	J	0.012	0.012	U	0.012
March 2014			0.010	U	0.01	0.010	U	0.01	0.010	U	0.010	0.010	U	0.01	1.000	U	1	0.010	U	0.01	0.010	U	0.01	0.010	U	0.01	0.010	U	0.01	0.010	U	0.01
October 2014			0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.030		0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009
Mean			**0.018**			**0.018**			**0.020**			**0.026**			**0.222**			**0.014**			**0.024**			**0.018**			**0.020**			**0.018**		
Standard Deviation			**0.013**			**0.013**			**0.010**			**0.021**			**0.435**			**0.006**			**0.009**			**0.013**			**0.012**			**0.013**		
Mean + 3 Standard Deviations			**0.057**			**0.058**			**0.051**			**0.089**			**1.527**			**0.031**			**0.051**			**0.057**			**0.057**			**0.057**		
May 2012	Total Cyanide (ug/l)	200																														
June 2012	CAS #57-12-5																															
August 2012																																
February 2013																																
May 2013			1	U	1	1	U	1	2	J	1	1	U	1	1	U	1	1	U	1	1	U	1	1	J	1	1	U	1	1	U	1
August 2013			1	J	1	1	U	1	1	U	1	3	J	1	1	U	1	1	J	1	1	J	1	1	U	1	1	U	1	1	J	1
December 2013			2	J	1	1	U	1	2	J	1	1	U	1	1	J	1	2	J	1	1	U	1	1	J	1	1	J	1	1	J	1
March 2014			1	U	1	1	U	1	1	U	1	2	J	1	1	J	1	1	U	1	1	U	1	4	J	1	2	J	1	1	U	1
Mean			**1.3**			**1.0**			**1.5**			**1.8**			**1.0**			**1.3**			**1.0**			**1.8**			**1.3**			**1.0**		
Standard Deviation			**0.5**			**0.0**			**0.6**			**1.0**			**0.0**			**0.5**			**0.0**			**1.5**			**0.5**			**0.0**		
Mean + 3 Standard Deviations			**2.8**			**1.0**			**3.2**			**4.6**			**1.0**			**2.8**			**1.0**			**6.3**			**2.8**			**1.0**		
Metals																																
May 2012	Aluminum (ug/l)	2,000																														
June 2012[2]	CAS #7429-90-5																															
August 2012																																
February 2013																																
May 2013			74.2		2.0	25.9		2.0	46.2		2.0	40.5		2.0	7.52	J	2.0	16		2.0	17.2		2.0	96		2.0	17.9		2.0	14.4		2.0
August 2013			1,710		20.0	194		2.0	46		2.0	70.3		4.0	55		2.0	52		2.0	33.8		2.0	156		2.0	123		2.0	24.8		2.0
December 2013			111		2.0	350		2.0	35.6		2.0	244		4.0	229		2.0	98.7		2.0	28.5		2.0	148		2.0	42.9		4.0	48.2		2.0
March 2014			237		2.0	395		2.0	72.1		2.0	227		2.0	152		2.0	98.2		2.0	58.8		2.0	351		2.0	23.1		10.0	31.5	J	10.0
Mean			**533.1**			**241.2**			**50.0**			**145.5**			**110.9**			**66.2**			**34.6**			**187.8**			**51.7**			**29.7**		
Standard Deviation			**787.7**			**167.4**			**15.6**			**104.9**			**99.1**			**40.0**			**17.6**			**112.0**			**48.7**			**14.2**		
Mean + 3 Standard Deviations			**2,896.2**			**743.4**			**96.7**			**460.2**			**408.1**			**186.2**			**87.3**			**523.9**			**197.9**			**72.3**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Antimony (ug/l)	3																														
June 2012(2)	CAS #7440-36-0																															
August 2012																																
February 2013																																
May 2013			0.48	J	0.10	0.33	J	0.10	0.49	J	0.10	0.28	J	0.10	0.18	J	0.10	0.58		0.10	0.7		0.10	0.47	J	0.10	0.36	J	0.10	0.49	J	0.10
August 2013			0.37	J	0.10	0.1	U	0.10	0.24	J	0.10	0.2	U	0.20	0.1	U	0.10	0.31	J	0.10	0.67	J	0.10	1.27		0.10	0.14	J	0.10	0.1	U	0.10
December 2013			0.54	J	0.10	0.55	J	0.10	0.15	J	0.10	0.2	U	0.20	0.1	U	0.10	0.51	J	0.10	0.48	J	0.10	0.3	J	0.10	1.14	J	0.20	0.19	J	0.10
March 2014			0.29	J	0.10	0.2	J	0.10	0.34	J	0.10	0.96	J	0.10	0.32	J	0.10	0.41	J	0.10	0.68	J	0.10	0.33	J	0.10	**13.19**		0.10	2.09	J	0.50
Mean			**0.42**			**0.30**			**0.31**			**0.41**			**0.18**			**0.45**			**0.63**			**0.59**			**3.71**			**0.72**		
Standard Deviation			**0.11**			**0.19**			**0.15**			**0.37**			**0.10**			**0.12**			**0.10**			**0.46**			**6.34**			**0.93**		
Mean + 3 Standard Deviations			**0.75**			**0.88**			**0.74**			**1.52**			**0.49**			**0.81**			**0.94**			**1.97**			**22.72**			**3.51**		
May 2012	Arsenic (ug/l)	25																														
June 2012(2)	CAS #7440-38-2																															
August 2012																																
February 2013																																
May 2013			1.27		0.20	0.51		0.20	3.19		0.20	0.5		0.20	2.06		0.20	1.37		0.20	1.33		0.20	0.21	J	0.20	0.34	J	0.20	1.07		0.20
August 2013			2.53		0.20	0.93		0.20	6.97		0.20	1.25		0.40	3.09		0.20	2.19		0.20	1.73		0.20	4.05		0.20	1.37		0.20	1.45		0.20
December 2013			0.55		0.10	0.68		0.10	3.55		0.20	2.22		0.40	2.93		0.20	2.46		0.20	1.86		0.20	2.12		0.20	2.31		0.40	1.38		0.20
March 2014			0.61		0.10	0.78		0.10	3.62		0.10	0.59		0.10	5.6		0.10	2.14		0.10	1.56		0.10	1.46		0.10	0.67		0.10	4.68		0.50
Mean			**1.24**			**0.73**			**4.33**			**1.14**			**3.42**			**2.04**			**1.62**			**1.96**			**1.17**			**2.15**		
Standard Deviation			**0.92**			**0.18**			**1.77**			**0.79**			**1.52**			**0.47**			**0.23**			**1.60**			**0.87**			**1.70**		
Mean + 3 Standard Deviations			**4.00**			**1.25**			**9.64**			**3.52**			**7.99**			**3.44**			**2.31**			**6.77**			**3.79**			**7.24**		
May 2012	Barium (ug/l)	1,000																														
June 2012(2)	CAS #7440-39-3																															
August 2012																																
February 2013																																
May 2013			30.96		0.10	44.7		0.10	25.18		0.10	121.8		0.10	36.15		0.10	92.82		0.10	90.61		0.10	371.8		0.10	447.9		0.10	112.3		0.10
August 2013			40.01		0.10	43.82		0.10	37.96		0.10	181.9		0.20	36.72		0.10	80.44		0.10	82.82		0.10	145.1		0.10	449.6		1.0	134.5		0.10
December 2013			26.73		0.10	42.93		0.10	36.43		0.10	279		0.20	41.57		0.10	82.36		0.10	79.25		0.10	217.7		0.10	413.6		0.20	248.6		0.10
March 2014			26.32		0.10	45.53		0.10	35.41		0.10	187		0.10	38.5		0.10	81.47		0.10	102.1		0.10	206.4		0.10	460.5		0.10	275		0.50
Mean			**31.01**			**44.25**			**33.75**			**192.43**			**38.24**			**84.27**			**88.70**			**235.25**			**442.90**			**192.60**		
Standard Deviation			**6.36**			**1.12**			**5.81**			**64.87**			**2.44**			**5.75**			**10.12**			**96.46**			**20.32**			**81.14**		
Mean + 3 Standard Deviations			**50.08**			**47.61**			**51.16**			**387.03**			**45.55**			**101.53**			**119.05**			**524.63**			**503.85**			**436.01**		
May 2012	Beryllium (ug/l)	3 (GV)																														
June 2012(2)	CAS #7440-41-7																															
August 2012																																
February 2013																																
May 2013			0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10
August 2013			0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.20	U	0.20	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10
December 2013			0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.20	U	0.20	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.20	U	0.20	0.10	U	0.10
March 2014			0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.50	U	0.50
Mean			**0.10**			**0.10**			**0.10**			**0.15**			**0.10**			**0.10**			**0.10**			**0.10**			**0.13**			**0.20**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.06**			**0.00**			**0.00**			**0.00**			**0.00**			**0.05**			**0.20**		
Mean + 3 Standard Deviations			**0.10**			**0.10**			**0.10**			**0.32**			**0.10**			**0.10**			**0.10**			**0.10**			**0.28**			**0.80**		
May 2012	Boron (ug/l)	1,000																														
June 2012(2)	CAS #7440-42-8																															
August 2012																																
February 2013																																
May 2013			90.2		8.0	37		8.0	81.7		8.0	45		8.0	90.8		8.0	221		8.0	237		8.0	268		8.0	227		8.0	39.4		8.0
August 2013			107		7.0	37.7		7.0	131		7.0	39.5		7.0	98.6		7.0	215		7.0	239		7.0	150		7.0	277		7.0	36.8		7.0
December 2013			76		7.0	32		7.0	105		7.0	140		7.0	110		7.0	249		7.0	290		7.0	232		7.0	340		7.0	57		7.0
March 2014			61.3		7.0	26.3	J	7.0	72.6		7.0	44.6		7.0	77.6		7.0	208		7.0	232		7.0	180		7.0	233		7.0	32.9		7.0
Mean			**83.63**			**33.25**			**97.58**			**67.28**			**94.25**			**223.25**			**249.50**			**207.50**			**269.25**			**41.53**		
Standard Deviation			**19.55**			**5.28**			**26.13**			**48.55**			**13.62**			**17.97**			**27.16**			**52.67**			**52.17**			**10.66**		
Mean + 3 Standard Deviations			**142.26**			**49.10**			**175.96**			**212.92**			**135.10**			**277.16**			**330.98**			**365.52**			**425.76**			**73.50**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Cadmium (ug/l)	5																														
June 2012(2)	CAS #7440-43-9																															
August 2012																																
February 2013																																
May 2013			0.05	U	0.05	0.05	U	0.05	0.06	J	0.05	0.05	U	0.05	0.05	U	0.05	0.1	J	0.05	0.05	U	0.05	0.05	U	0.05	0.67		0.05	0.68		0.05
August 2013			0.07	J	0.05	0.05	U	0.05	0.29		0.05	0.1	U	0.10	0.05	U	0.05	0.05	J	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05
December 2013			0.06	J	0.05	0.05	U	0.05	0.05	U	0.05	0.1	U	0.10	0.05	U	0.05	0.06	J	0.05	0.05	U	0.05	0.05	U	0.05	0.1	U	0.10	0.06	J	0.05
March 2014			0.08	J	0.05	0.17	J	0.05	0.12	J	0.05	0.05	U	0.05	0.05	J	0.05	0.06	J	0.05	0.05	U	0.05	0.05	U	0.05	0.1	J	0.05	0.32	J	0.25
October 2014			0.09	J	0.05	0.05	J	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.14	J	0.05	0.05	U	0.05	0.1	U	0.1	0.05	J	0.05	0.05	U	0.05
Mean			**0.07**			**0.07**			**0.11**			**0.07**			**0.05**			**0.08**			**0.05**			**0.06**			**0.19**			**0.23**		
Standard Deviation			**0.02**			**0.05**			**0.10**			**0.03**			**0.00**			**0.04**			**0.00**			**0.02**			**0.27**			**0.28**		
Mean + 3 Standard Deviations			**0.12**			**0.23**			**0.42**			**0.15**			**0.05**			**0.20**			**0.05**			**0.13**			**1.00**			**1.06**		
May 2012	Calcium (ug/l)	No Standard																														
June 2012(2)	CAS #7440-70-2																															
August 2012																																
February 2013																																
May 2013			56,000		20	93,400		320	79,000		20	320,000		20	150,000		20	140,000		20	120,000		20	300,000		320	356,000		320	180,000		20
August 2013			49,000		30	93,000		30	78,000		30	400,000		30	140,000		30	120,000		30	120,000		30	150,000		30	390,000		30	230,000		30
December 2013			63,000		30	110,000		30	76,000		30	450,000		30	140,000		30	140,000		30	120,000		30	230,000		30	390,000		30	200,000		30
March 2014			52,000		30	84,000		30	69,000		30	410,000		300	130,000		30	120,000		30	120,000		30	200,000		300	410,000		30	160,000		30
October 2014			54,000		30	88,000		30	66,000		30	430,000		30	130,000		30	120,000		30	120,000		30	300,000		30	360,000		30	340,000		30
Mean			**54,800**			**93,680**			**73,600**			**402,000**			**138,000**			**128,000**			**120,000**			**236,000**			**381,200**			**222,000**		
Standard Deviation			**5,263**			**9,910**			**5,771**			**49,699**			**8,367**			**10,954**			**0**			**65,038**			**22,742**			**70,852**		
Mean + 3 Standard Deviations			**70,589**			**123,411**			**90,912**			**551,097**			**163,100**			**160,863**			**120,000**			**431,115**			**449,426**			**434,556**		
May 2012	Chromium (ug/l)	50																														
June 2012(2)	CAS #7440-47-3																															
August 2012																																
February 2013																																
May 2013			0.51	J	0.20	0.21	J	0.20	0.24	J	0.20	0.23	J	0.20	0.2	U	0.20	0.29	J	0.20	0.38	J	0.20	0.47	J	0.20	0.22	J	0.20	0.28	J	0.20
August 2013			3.92		0.20	1.08		0.20	1.13		0.20	1.34	J	0.40	0.89	J	0.20	0.92	J	0.20	0.92	J	0.20	1.14		0.20	1.06		0.20	0.96	J	0.20
December 2013			0.85	J	0.20	1.21		0.20	0.67	J	0.20	1.27	J	0.40	1		0.20	0.74	J	0.20	0.67	J	0.20	0.82	J	0.20	0.93	J	0.40	0.7	J	0.20
March 2014			0.76	J	0.20	1.15		0.20	0.44	J	0.20	0.81	J	0.20	0.59	J	0.20	0.53	J	0.20	0.99	J	0.20	0.97	J	0.20	0.3	J	0.20	1	U	1.0
Mean			**1.51**			**0.91**			**0.62**			**0.91**			**0.67**			**0.62**			**0.74**			**0.85**			**0.63**			**0.74**		
Standard Deviation			**1.61**			**0.47**			**0.38**			**0.51**			**0.36**			**0.27**			**0.28**			**0.29**			**0.43**			**0.33**		
Mean + 3 Standard Deviations			**6.35**			**2.33**			**1.77**			**2.45**			**1.74**			**1.43**			**1.57**			**1.71**			**1.91**			**1.73**		
May 2012	Chromium,	50																														
June 2012	Hexavalent (ug/l)																															
August 2012	CAS #18540-29-9																															
February 2013																																
May 2013			1	U	1	1	U	1	1	J	1	1	U	1	1	U	1	1	U	1	1	U	1	1	J	1	1	U	1	1	U	1
August 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1
December 2013			3	U	3	4	J	3	3	U	3	3	U	3	4	J	3	4	J	3	3	U	3	4	J	3	4	J	3	3	U	3
March 2014			4	J	3	4	J	3	3	U	3	3	U	3	3	U	3	4	J	3	3	U	3	3	U	3	4	J	3	3	U	3
Mean			**2.25**			**2.50**			**2.00**			**2.00**			**2.25**			**2.50**			**2.00**			**2.25**			**2.50**			**2.00**		
Standard Deviation			**1.50**			**1.73**			**1.15**			**1.15**			**1.50**			**1.73**			**1.15**			**1.50**			**1.73**			**1.15**		
Mean + 3 Standard Deviations			**6.75**			**7.70**			**5.46**			**5.46**			**6.75**			**7.70**			**5.46**			**6.75**			**7.70**			**5.46**		
May 2012	Cobalt (ug/l)	No Standard																														
June 2012(2)	CAS #7440-48-4																															
August 2012																																
February 2013																																
May 2013			1.01		0.10	0.89		0.10	0.62		0.10	0.22	J	0.10	0.1	U	0.10	0.49	J	0.10	1.07		0.10	0.1	J	0.10	0.59		0.10	0.1	U	0.10
August 2013			1.99		0.10	0.77		0.10	0.89		0.10	0.75	J	0.20	0.19	J	0.10	0.64		0.10	1.82		0.10	0.91		0.10	2.33		0.10	0.5		0.10
December 2013			0.26		0.10	1.01		0.10	0.77		0.10	1.03		0.20	0.35	J	0.10	0.92		0.10	1.06		0.10	0.46	J	0.10	2.32		0.20	0.28	J	0.10
March 2014			0.66		0.10	1.32		0.10	0.68		0.10	0.61		0.10	0.18	J	0.10	2.54		0.10	0.83		0.10	0.41		0.10	0.57		0.20	0.1	U	0.50
Mean			**0.98**			**1.00**			**0.74**			**0.65**			**0.21**			**1.15**			**1.20**			**0.47**			**1.45**			**0.25**		
Standard Deviation			**0.74**			**0.24**			**0.12**			**0.34**			**0.10**			**0.95**			**0.43**			**0.33**			**1.01**			**0.19**		
Mean + 3 Standard Deviations			**3.20**			**1.71**			**1.09**			**1.66**			**0.52**			**3.98**			**2.49**			**1.47**			**4.48**			**0.82**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Copper (ug/l)	200																														
June 2012(2)	CAS #7440-50-8																															
August 2012																																
February 2013																																
May 2013			0.4	J	0.10	0.15	J	0.10	0.17	J	0.10	0.1	J	0.10	0.1	U	0.10	0.25	J	0.10	0.22	J	0.10	0.79	J	0.10	0.51	J	0.10	0.18	J	0.10
August 2013			4.4		0.10	1.12		0.10	0.72	J	0.10	1.66	J	0.20	0.61	J	0.10	0.73	J	0.10	0.58	J	0.10	0.75	J	0.10	1.52		0.10	1		0.10
December 2013			0.57	J	0.10	0.78	J	0.10	0.7	J	0.10	1.65	J	0.20	0.88	J	0.10	0.75	J	0.10	0.67	J	0.10	0.92	J	0.10	1.72	J	0.20	0.89	J	0.10
March 2014			0.93	J	0.10	1.15		0.10	0.52	J	0.10	0.35	J	0.10	0.3	J	0.10	0.4	J	0.10	0.54	J	0.10	0.46	J	0.10	0.3	J	0.10	0.5	U	0.50
Mean			**1.58**			**0.80**			**0.53**			**0.94**			**0.47**			**0.53**			**0.50**			**0.73**			**1.01**			**0.64**		
Standard Deviation			**1.90**			**0.46**			**0.25**			**0.83**			**0.34**			**0.25**			**0.20**			**0.19**			**0.71**			**0.38**		
Mean + 3 Standard Deviations			**7.26**			**2.19**			**1.29**			**3.44**			**1.50**			**1.27**			**1.09**			**1.31**			**3.15**			**1.77**		
May 2012	Iron (ug/l)	300																														
June 2012(2)	CAS #7439-89-6																															
August 2012																																
February 2013																																
May 2013			135		13.0	74.4		13.0	**677**		13.0	**2,350**		13.0	**2,140**		13.0	**319**		13.0	80.3		13.0	**1,280**		13.0	**500**		13.0	**2,340**		13.0
August 2013			**3,330**		13.0	**761**		13.0	**1,550**		13.0	**3,500**		26.0	**1,850**		13.0	**850**		13.0	**505**		13.0	**1,120**		13.0	**2,420**		13.0	**2,130**		13.0
December 2013			234		13.0	**767**		13.0	**1,010**		13.0	**3,690**		26.0	**2,050**		13.0	**1,030**		13.0	**536**		13.0	**2,170**		13.0	**2,280**		26.0	**3,140**		13.0
March 2014			**516**		13.0	**832**		13.0	**1,070**		13.0	**1,720**		13.0	**3,040**		13.0	**404**		13.0	144		13.0	**1,130**		13.0	253		13.0	**5,730**		65.0
October 2014			**2,270**		12	**3,100**		12	**674**		12	**1,580**		12	**1,710**		12	**650**		12	224		12	**3,050**		12	**663**		12	**3,280**		12
Mean			**1,297.0**			**1,106.9**			**996.2**			**2,568.0**			**2,158.0**			**650.6**			**297.9**			**1,750.0**			**1,223.2**			**3,324.0**		
Standard Deviation			**1,429.2**			**1,156.4**			**359.9**			**983.7**			**520.9**			**297.7**			**209.8**			**846.8**			**1,040.1**			**1,433.4**		
Mean + 3 Standard Deviations			**5,584.5**			**4,576.1**			**2,075.8**			**5,519.0**			**3,720.8**			**1,543.7**			**927.3**			**4,290.5**			**4,343.5**			**7,624.2**		
May 2012	Lead (ug/l)	25																														
June 2012(2)	CAS 37439-92-1																															
August 2012																																
February 2013																																
May 2013			0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.26	J	0.20	0.2	U	0.20	0.2	U	0.20
August 2013			1.72		0.20	0.37	J	0.20	0.2	U	0.20	0.4	U	0.40	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.4	J	0.20	0.2	U	0.20	0.2	U	0.20
December 2013			0.2	U	0.20	0.37	J	0.20	0.2	U	0.20	0.4	U	0.40	0.2	U	0.20	0.27	J	0.20	0.2	J	0.20	0.21	J	0.20	0.4	U	0.40	0.2	U	0.20
March 2014			0.52	J	0.20	0.82	J	0.20	0.2	U	0.20	0.41	J	0.20	0.2	J	0.20	0.2	U	0.20	0.2	U	0.20	0.51	J	0.20	4	U	4.0	1	U	1.0
October 2014			2.94		0.12	1.71		0.12	0.13	J	0.12	0.41	J	0.12	0.24	J	0.12	0.72	J	0.12	0.16	J	0.12	1.2		0.1	0.12	U	0.12	0.28	J	0.12
Mean			**1.12**			**0.69**			**0.19**			**0.36**			**0.21**			**0.32**			**0.19**			**0.52**			**0.98**			**0.38**		
Standard Deviation			**1.20**			**0.61**			**0.03**			**0.09**			**0.02**			**0.23**			**0.02**			**0.40**			**1.69**			**0.35**		
Mean + 3 Standard Deviations			**4.71**			**2.53**			**0.28**			**0.64**			**0.26**			**1.00**			**0.25**			**1.72**			**6.05**			**1.43**		
May 2012	Magnesium (ug/l)	35,000 (GV)																														
June 2012(2)	CAS #7439-95-4																															
August 2012																																
February 2013																																
May 2013			**67,000**		40	**48,600**		23	**39,000**		40	**110,000**		40	**71,000**		40	**59,000**		40	**59,000**		40	**100,000**		230	**136,000**		230	**78,000**		40
August 2013			**60,000**		10	**45,000**		10	**39,000**		10	**140,000**		10	**60,000**		10	**47,000**		10	**46,000**		10	**58,000**		10	**150,000**		10	**100,000**		10
December 2013			**87,000**		10	**45,000**		10	**54,000**		10	**130,000**		10	**61,000**		10	**53,000**		10	**48,000**		10	**76,000**		10	**130,000**		10	**84,000**		10
March 2014			**77,000**		10	**41,000**		10	**51,000**		10	**130,000**		100	**61,000**		10	**48,000**		10	**46,000**		10	**64,000**		100	**140,000**		10	**69,000**		10
October 2014			**85,000**		10	**49,000**		10	**46,000**		10	**140,000**		10	**58,000**		10	**50,000**		10	**53,000**		10	**97,000**		10	**130,000**		10	**140,000**		10
Mean			**75,200**			**45,720**			**45,800**			**130,000**			**62,200**			**51,400**			**50,400**			**79,000**			**137,200**			**94,200**		
Standard Deviation			**11,584**			**3,255**			**6,834**			**12,247**			**5,070**			**4,827**			**5,595**			**18,974**			**8,319**			**27,986**		
Mean + 3 Standard Deviations			**109,953**			**55,484**			**66,301**			**166,742**			**77,409**			**65,881**			**67,184**			**135,921**			**162,156**			**178,157**		
May 2012	Manganese (ug/l)	300																														
June 2012(2)	CAS #7439-96-5																															
August 2012																																
February 2013																																
May 2013			**780.5**		0.50	**345.9**		0.10	**1,070**		1.0	**324.9**		0.10	**421.2**		0.10	**381.6**		0.10	**615**		0.50	**723.8**		1.0	**896**		0.10	**351.3**		0.10
August 2013			**619**		1.0	228.6		0.10	**988.7**		1.0	**422.8**		0.20	**396.6**		0.10	**345.3**		0.10	**441.2**		1.0	**443.3**		1.0	**912**		1.0	**355**		0.10
December 2013			187.5		0.10	186.1		0.10	**1,058**		1.0	**564**		0.20	**456.4**		1.0	**377.7**		0.10	**373.4**		0.10	**594**		1.0	**884**		2.0	**346.7**		0.10
March 2014			296.5		0.10	**367.4**		0.10	**971.2**		1.0	**453.7**		0.10	**433.3**		0.10	**429.5**		0.10	**330.1**		0.10	**1,015**		1.0	**856.8**		2.0	**764**		0.50
October 2014			266.5		0.3	**596.6**		6.04	**735**		6.04	**437.4**		0.3	**418.9**		0.3	**401.8**		0.3	249.5		0.3	**678.7**		3	**975.8**		6.04	**554**		6.04
Mean			**430.00**			**344.92**			**964.58**			**440.56**			**425.28**			**387.18**			**401.84**			**690.96**			**904.92**			**474.20**		
Standard Deviation			**255.90**			**160.16**			**135.25**			**85.31**			**21.87**			**31.14**			**137.98**			**210.34**			**44.46**			**184.34**		
Mean + 3 Standard Deviations			**1,197.69**			**825.40**			**1,370.34**			**696.50**			**490.88**			**480.61**			**815.77**			**1,321.97**			**1,038.30**			**1,027.21**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Mercury (ug/l)	0.7																														
June 2012(2)	CAS #7439-97-6																															
August 2012																																
February 2013																																
May 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
August 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
December 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
March 2014			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
Mean			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**		
May 2012	Nickel (ug/l)	100																														
June 2012(2)	CAS #7440-02-0																															
August 2012																																
February 2013																																
May 2013			2.62		0.10	13.56		0.10	4.92		0.10	0.38	J	0.10	0.12	J	0.10	0.8		0.10	3.19		0.10	0.22	J	0.10	0.65		0.10	1.2		0.10
August 2013			5.43		0.10	15.67		0.10	4.31		0.10	3.12		0.20	1.17		0.10	1.44		0.10	7.46		0.10	5.51		0.10	3.22		0.10	1.72		0.10
December 2013			1.28		0.10	10.8		0.10	5.28		0.10	4.08		0.20	1.41		0.10	1.4		0.10	4.12		0.10	2.28		0.10	4.95		0.20	1.39		0.10
March 2014			1.33		0.10	13.86		0.10	4.28		0.10	0.93		0.10	0.49	J	0.10	0.94		0.10	3.68		0.10	2.05		0.10	0.59		0.10	0.88	J	0.50
Mean			**2.67**			**13.47**			**4.70**			**2.13**			**0.80**			**1.15**			**4.61**			**2.52**			**2.35**			**1.30**		
Standard Deviation			**1.94**			**2.01**			**0.49**			**1.76**			**0.60**			**0.32**			**1.94**			**2.20**			**2.12**			**0.35**		
Mean + 3 Standard Deviations			**8.50**			**19.50**			**6.16**			**7.41**			**2.59**			**2.11**			**10.42**			**9.11**			**8.72**			**2.35**		
May 2012	Potassium (ug/l)	No Standard																														
June 2012(2)	CAS #7440-09-7																															
August 2012																																
February 2013																																
May 2013			8,440		27	4,660		27	10,100		27	6,300		27	4,060		27	7,440		27	11,100		27	6,000		27	7,510		27	7,390		27
August 2013			8,820		27	2,910		27	11,700		27	5,620		54	3,390		27	5,340		27	5,580		27	6,970		27	7,420		27	4,350		27
December 2013			4,250		27	2,390		27	6,920		27	6,130		54	3,360		27	4,700		27	4,680		27	5,340		27	9,210		54	7,260		27
March 2014			3,060		27	1,870		27	6,320		27	5,380		27	2,930		27	4,830		27	5,550		27	4,650		27	7,860		27	8,080		135
October 2014			4,110		19.3	1,050		19.3	8,890		19.3	4,580		19.3	1,500		19.3	2,920		19.3	3,540		19.3	6,100		19	5,500		19.3	4,560		19.3
Mean			**5,736.0**			**2,576.0**			**8,786.0**			**5,602.0**			**3,048.0**			**5,046.0**			**6,090.0**			**5,812.0**			**7,500.0**			**6,328.0**		
Standard Deviation			**2,684.9**			**1,352.4**			**2,224.4**			**681.9**			**955.1**			**1,620.5**			**2,921.6**			**870.7**			**1,328.6**			**1,739.6**		
Mean + 3 Standard Deviations			**13,790.8**			**6,633.3**			**15,459.2**			**7,647.8**			**5,913.2**			**9,907.5**			**14,854.7**			**8,424.0**			**11,485.7**			**11,546.7**		
May 2012	Selenium (ug/l)	10																														
June 2012(2)	CAS #7782-49-2																															
August 2012																																
February 2013																																
May 2013			0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30
August 2013			0.46	J	0.30	0.7	J	0.30	0.63	J	0.30	2.99	J	0.60	0.75	J	0.30	0.81	J	0.30	0.82	J	0.30	0.95	J	0.30	2.46	J	0.30	1.55	J	0.30
December 2013			0.3	U	0.30	0.3	U	0.30	0.6	J	0.30	3.46	J	0.60	1.1	J	0.30	0.87	J	0.30	0.96	J	0.30	1.37	J	0.30	2.84	J	0.60	1.52	J	0.30
March 2014			0.3	U	0.30	0.5	J	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	1.5	U	1.50
Mean			**0.34**			**0.45**			**0.46**			**1.76**			**0.61**			**0.57**			**0.60**			**0.73**			**1.48**			**1.22**		
Standard Deviation			**0.08**			**0.19**			**0.18**			**1.70**			**0.39**			**0.31**			**0.35**			**0.53**			**1.37**			**0.61**		
Mean + 3 Standard Deviations			**0.58**			**1.02**			**1.00**			**6.86**			**1.78**			**1.51**			**1.63**			**2.31**			**5.57**			**3.05**		
May 2012	Silver (ug/l)	50																														
June 2012(2)	CAS #7440-22-4																															
August 2012																																
February 2013																																
May 2013			0.1	U	0.10	0.19	J	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.34	J	0.10	0.14	J	0.10	0.1	U	0.10
August 2013			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.2	U	0.20	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
December 2013			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.2	U	0.20	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.2	U	0.20	0.1	U	0.10
March 2014			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.5	U	0.50
Mean			**0.10**			**0.12**			**0.10**			**0.15**			**0.10**			**0.10**			**0.10**			**0.16**			**0.14**			**0.20**		
Standard Deviation			**0.00**			**0.05**			**0.00**			**0.06**			**0.00**			**0.00**			**0.00**			**0.12**			**0.05**			**0.20**		
Mean + 3 Standard Deviations			**0.10**			**0.26**			**0.10**			**0.32**			**0.10**			**0.10**			**0.10**			**0.52**			**0.28**			**0.80**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Sodium (ug/l)	20,000																														
June 2012(2)	CAS #7440-23-5																															
August 2012																																
February 2013																																
May 2013			**24,100**		15	16,800		15	**38,400**		15	**278,000**		150	**28,900**		15	**43,900**		15	**28,700**		15	**121,000**		150	**282,000**		150	**214,000**		150
August 2013			**22,600**		15	15,000		15	**44,600**		150	**415,000**		300	**30,300**		15	**49,100**		150	**28,300**		15	**48,000**		150	**284,000**		150	**274,000**		150
December 2013			**21,800**		15	15,100		15	**36,500**		15	**456,000**		300	**34,600**		15	**46,700**		150	**31,000**		15	**85,400**		150	**285,000**		300	**238,000**		150
March 2014			**20,300**		15	14,000		15	**33,700**		15	**370,000**		150	**32,500**		15	**43,600**		15	**30,100**		15	**133,000**		150	**284,000**		300	**197,000**		150
October 2014			**20,800**		16.1	14,700		16.1	**37,400**		16.1	**479,000**		322	**32,300**		16.1	**49,200**		16.1	**30,400**		16.1	**123,000**		161	**288,000**		322	**388,000**		322
Mean			**21,920**			**15,120**			**38,120**			**399,600**			**31,720**			**46,500**			**29,700**			**102,080**			**284,600**			**262,200**		
Standard Deviation			**1,509**			**1,033**			**4,023**			**79,664**			**2,191**			**2,705**			**1,151**			**35,194**			**2,191**			**76,034**		
Mean + 3 Standard Deviations			**26,447**			**18,219**			**50,190**			**638,591**			**38,294**			**54,614**			**33,153**			**207,663**			**291,173**			**490,303**		
May 2012	Thallium (ug/l)	0.5 (GV)																														
June 2012(2)	CAS #7440-28-0																															
August 2012																																
February 2013																																
May 2013			0.16	J	0.03	0.03	U	0.03	0.22	J	0.03	0.03	U	0.03	0.03	U	0.03	0.11	J	0.03	0.12	J	0.03	0.03	U	0.03	0.03	U	0.03	0.38	J	0.03
August 2013			0.05	J	0.03	0.03	U	0.03	0.05	J	0.03	0.06	U	0.06	0.03	U	0.03	0.03	U	0.03	0.03	J	0.03	0.06	J	0.03	0.03	U	0.03	0.03	U	0.03
December 2013			0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.06	U	0.06	0.03	U	0.03	0.03	J	0.03	0.05	J	0.03	0.03	U	0.03	0.09	J	0.06	0.03	U	0.03
March 2014			0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.6	U	0.60	0.15	U	0.15
Mean			**0.07**			**0.03**			**0.08**			**0.05**			**0.03**			**0.05**			**0.06**			**0.04**			**0.19**			**0.15**		
Standard Deviation			**0.06**			**0.00**			**0.09**			**0.02**			**0.00**			**0.04**			**0.04**			**0.02**			**0.28**			**0.17**		
Mean + 3 Standard Deviations			**0.25**			**0.03**			**0.36**			**0.10**			**0.03**			**0.17**			**0.19**			**0.08**			**1.02**			**0.64**		
May 2012	Vanadium (ug/l)	No Standard																														
June 2012(2)	CAS #7440-62-2																															
August 2012																																
February 2013																																
May 2013			0.35	J	0.10	0.1	U	0.10	0.32	J	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.12	J	0.10	0.12	J	0.10	0.1	U	0.10
August 2013			2.88	J	0.10	0.53	J	0.10	0.24	J	0.10	0.29	J	0.20	0.1	J	0.10	0.37	J	0.10	0.33	J	0.10	0.78	J	0.10	0.29	J	0.10	0.11	J	0.10
December 2013			0.74	J	0.10	0.89	J	0.10	0.2	J	0.10	0.39	J	0.20	0.32	J	0.10	0.32	J	0.10	0.47	J	0.10	0.29	J	0.10	0.2	U	0.20	0.14	J	0.10
March 2014			0.8	J	0.10	0.75	J	0.10	0.17	J	0.10	0.38	J	0.10	0.14	J	0.10	0.39	J	0.10	0.13	J	0.10	0.49	J	0.10	0.1	U	0.10	0.5	U	0.50
Mean			**1.19**			**0.57**			**0.23**			**0.29**			**0.17**			**0.30**			**0.26**			**0.42**			**0.18**			**0.21**		
Standard Deviation			**1.14**			**0.35**			**0.07**			**0.13**			**0.11**			**0.13**			**0.17**			**0.28**			**0.09**			**0.19**		
Mean + 3 Standard Deviations			**4.62**			**1.60**			**0.43**			**0.69**			**0.48**			**0.69**			**0.78**			**1.27**			**0.44**			**0.79**		
May 2012	Zinc (ug/l)	2,000 (GV)																														
June 2012(2)	CAS #7440-66-6																															
August 2012																																
February 2013																																
May 2013			13.85		1.20	14.39		1.20	5.87	J	1.20	12.12		1.20	13.22		1.20	14.13		1.20	13.7		1.20	6.32	J	1.20	7.95	J	1.20	12.98		1.20
August 2013			21.36		1.20	14.08		1.20	11.46		1.20	14.2	J	2.40	11.62		1.20	13.66		1.20	11.58		1.20	12.26		1.20	13.59		1.20	12.45		1.20
December 2013			2.01	J	1.20	3.92	J	1.20	2.12	J	1.20	6.5	J	2.40	3.25	J	1.20	4.09	J	1.20	2.39	J	1.20	3.14	J	1.20	6.07	J	2.40	5.45	J	1.20
March 2014			2.55	J	1.20	3.67	J	1.20	2.15	J	1.20	1.96	J	1.20	2.34	J	1.20	2.07	J	1.20	1.96	J	1.20	2.72	J	1.20	1.81	J	1.20	6	U	6.0
Mean			**9.94**			**9.02**			**5.40**			**8.70**			**7.61**			**8.49**			**7.41**			**6.11**			**7.36**			**9.22**		
Standard Deviation			**9.37**			**6.03**			**4.41**			**5.54**			**5.61**			**6.30**			**6.11**			**4.40**			**4.89**			**4.05**		
Mean + 3 Standard Deviations			**38.04**			**27.10**			**18.62**			**25.33**			**24.43**			**27.39**			**25.73**			**19.32**			**22.01**			**21.36**		
Volatile Organics																																
May 2012	Acetone (ug/l)	50 (GV)																														
June 2012	CAS #67-64-1																															
August 2012																																
February 2013																																
May 2013			30		1.0	1.0	U	1.0	9.4		1.0	1.0	U	1.0	1.0	U	1.0	1.2	J	1.0	2.7	J	1.0	1.0	U	1.0	1.0	U	1.0	1.2	J	1.0
August 2013			1.0	U	1.0	1.8	J	1.0	20		1.0	1.8	J	1.0	1.8	J	1.0	1.8	J	1.0	1.0	U	1.0	2.4	J	1.0	2.5	J	1.0	2	J	1.0
December 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.6	J	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
March 2014			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
October 2014			1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5
Mean			**6.90**			**1.26**			**6.58**			**1.26**			**1.26**			**1.30**			**1.56**			**1.38**			**1.40**			**1.34**		
Standard Deviation			**12.92**			**0.37**			**8.31**			**0.37**			**0.37**			**0.35**			**0.69**			**0.61**			**0.65**			**0.42**		
Mean + 3 Standard Deviations			**45.65**			**2.37**			**31.51**			**2.37**			**2.37**			**2.34**			**3.64**			**3.21**			**3.36**			**2.61**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Benzene (ug/l)	1																														
June 2012	CAS #71-43-2																															
August 2012																																
February 2013																																
May 2013			0.57		0.19	0.19	U	0.19	0.37	J	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19
August 2013			0.16	U	0.16	0.16	U	0.16	0.27	J	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
December 2013			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
March 2014			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
October 2014			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
Mean			**0.24**			**0.17**			**0.22**			**0.17**			**0.17**			**0.17**			**0.17**			**0.17**			**0.17**			**0.17**		
Standard Deviation			**0.18**			**0.01**			**0.09**			**0.01**			**0.01**			**0.01**			**0.01**			**0.01**			**0.01**			**0.01**		
Mean + 3 Standard Deviations			**0.79**			**0.21**			**0.51**			**0.21**			**0.21**			**0.21**			**0.21**			**0.21**			**0.21**			**0.21**		
May 2012	2-Butanone (ug/l)	50 (GV)																														
June 2012	CAS #78-93-3																															
August 2012																																
February 2013																																
May 2013			1.9	J	1.0	1.0	U	1.0	2.4	J	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			1.0	U	1.0	1.0	U	1.0	16		1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
December 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
March 2014			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
October 2014			1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9
Mean			**1.36**			**1.18**			**4.46**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**		
Standard Deviation			**0.49**			**0.40**			**6.48**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**		
Mean + 3 Standard Deviations			**2.84**			**2.39**			**23.90**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**		
May 2012	Carbon disulfide	60 (GV)																														
June 2012	(ug/l)																															
August 2012	CAS #75-15-0																															
February 2013																																
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.2	J	1.0	1.0	U	1.0
December 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	2.4	J	1.0	1.0	U	1.0
March 2014			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
October 2014			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
Mean			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.32**			**1.00**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.61**			**0.00**		
Mean + 3 Standard Deviations			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**3.15**			**1.00**		
May 2012	Chloroform (ug/l)	7																														
June 2012	CAS #67-66-3																															
August 2012																																
February 2013																																
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
March 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
May 2012	Methylene	5																														
June 2012	Chloride (ug/l)																															
August 2012	Cas #75-09-2																															
February 2013																																
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
March 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		

TABLE 3 - GROUNDWATER SAMPLING RESULTS - EAST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2013-41			MW2013-42			MW2013-43			MW2013-44			MW2013-45			MW2013-46			MW2013-47			MW2013-48			MW2013-49			MW2013-50		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Toluene	5																														
June 2012	(ug/l)																															
August 2012	CAS #108-88-3																															
February 2012																																
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
March 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
May 2012	Trichloroethene(4)	5																														
June 2012	(ug/l)																															
August 2012	CAS #79-01-6																															
February 2012																																
May 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
August 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
December 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
March 2014			1.1		0.17	**15**		0.17	**10**		0.17	**13**		0.17	**15**		0.17	0.82		0.17	0.73		0.17	0.31	J	0.17	0.17	U	0.17	0.59		0.17
October 2014			0.18	U	0.18	0.18	U	0.18	0.18	U	0.18	0.18	U	0.18	0.18	U	0.18	0.18	U	0.18	0.18	U	0.18	**13**		0.18	0.18	U	0.18	0.18	U	0.18
Mean			**0.36**			**3.14**			**2.14**			**2.74**			**3.14**			**0.30**			**0.28**			**2.76**			**0.17**			**0.26**		
Standard Deviation			**0.41**			**6.63**			**4.39**			**5.74**			**6.63**			**0.29**			**0.25**			**5.72**			**0.00**			**0.19**		
Mean + 3 Standard Deviations			**1.60**			**23.03**			**15.32**			**19.95**			**23.03**			**1.17**			**1.03**			**19.93**			**0.19**			**0.82**		

Notes:

(1) NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998, and Addenda dated April 2000 and June 2004.

(2) June 2012 groundwater samples were collected for "filtered" metals analysis only from Monitoring Wells MW2012-22 to MW2012-25 due to matrix interference from samples analyzed from the May 2012 sampling event. The matrix interference is believed to have been caused by high silt content in groundwater from the recently installed wells. Due to matrix interference, the May 2012 analytical results for metals and color, and the field measurement for turbidity, will not be included in the calculation of the mean and standard deviation.

(3) Non-detect analytical results are given a value of "0" if there is no associated laboratory MDL for the analyzed parameter.

(4) Trichloroethene was detected in groundwater from monitoring wells sampled in March 2014 only. The detection of Trichloroethene is believed to be an anomally, as it was not detected in the laboratory's internal QA/QC samples and trip blank sample. Analytical results from a sample collected by passing tap water through the same sampling equipment used during the March 2014 groundwater sampling did not show the presence of Trichloroethene.

This table summarizes detections only for VOC parameters and does not represent all VOC parameters that were analyzed.

NSD denotes that the monitoring well was dry at time of sampling.

GV denotes a Guidance Value.

NA denotes Not Applicable.

U indicates that the parameter was analyzed for but not detected. The analytical result is reported as the MDL.

J indicates an estimated value. The analytical result lies between the Laboratory's Method Detection Limit (MDL) and Reporting Limit (RL).

Parameter concentrations in bold have exceeded their respective groundwater standard and/or guidance value

TABLE 4

Groundwater Sampling Results

(West Brine Pond)

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	PH (Standard Units)	6.5 - 8.5	7.71			7.65			7.83			7.85																	
June 2012	(field measured)		7.23			7.23			7.23			7.21																	
August 2012															7.96			8.43			7.95			8.04			NSD		
February 2013			8.13			7.45			8.07			8.45			8.39			8.47			8.01			8.39			7.94		
May 2013			7.76			8.14			7.98			8.04			8.19			8.33			7.93			8.13			7.74		
August 2013			8.26			8.17			8.00			8.37			**8.79**			**8.65**			8.12			8.27			NSD		
December 2013																													
March 2014																													
October 2014			7.87			7.54			7.94			8.02			8.29			8.06			7.72			8			NSD		
Mean			**7.83**			**7.70**			**7.84**			**7.99**			**8.32**			**8.39**			**7.95**			**8.17**			**7.84**		
Standard Deviation			**0.36**			**0.38**			**0.31**			**0.44**			**0.31**			**0.22**			**0.15**			**0.16**			**0.14**		
Mean + 3 Standard Deviations			**8.91**			**8.84**			**8.77**			**9.32**			**9.24**			**9.04**			**8.39**			**8.65**			**8.26**		
May 2012	Turbidity (NTU)	5 NTU	**39.4**			**27.4**			**2,000**			**33**																	
June 2012[2]	(field measured)		**7.79**			**8.54**			**12.4**			**11.2**																	
August 2012															**18.2**			**6.48**			**151**			**16.2**			NSD		
February 2013			**5.29**			**6.37**			**58**			**52.1**			**24.5**			**7.52**			**6.55**			**21.2**			1.74		
May 2013			**12.2**			**16.7**			**16.2**			**17.4**			**39.2**			4.47			**38.5**			**34.2**			**11.2**		
August 2013			**39.7**			**34.1**			**23.5**			**106.4**			**15.6**			**49.4**			**45.8**			**47.4**			NSD		
December 2013																													
March 2014																													
October 2014			6.93			9.58			9.72			13.70			12.00			9.71			14.60			57.50			NSD		
Mean			**14**			**15**			**24**			**40**			**22**			**16**			**51**			**35**			**6**		
Standard Deviation			**14**			**11**			**20**			**41**			**11**			**19**			**58**			**17**			**7**		
Mean + 3 Standard Deviations			**57.53**			**49.04**			**83.12**			**161.90**			**53.98**			**72.62**			**225.47**			**87.35**			**26.54**		
May 2012	Specific	No Standard	658			725			483			425																	
June 2012	Conductivity (uS)		681			749			453			422																	
August 2012	(field measured)														436			402			515			422			NSD		
February 2013			NA			NA			NA			NA			NA			NA			NA			NA			NA		
May 2013			593			465			397			389			367			348			522			404			204		
August 2013			572			611			388			372			342			350			499			380			NSD		
December 2013																													
March 2014																													
October 2014			602			576			396			379			374			347			525			390			NSD		
Mean			**621**			**625**			**423**			**397**			**380**			**362**			**515**			**399**			**204**		
Standard Deviation			**46**			**116**			**42**			**25**			**40**			**27**			**12**			**18**			**NA**		
Mean + 3 Standard Deviations			**760**			**972**			**550**			**471**			**500**			**442**			**550**			**454**			**NA**		
May 2012	Color (CPU)	15 Apha	**80**		50	**110**		50	**90**		50	**90**		50															
June 2012[2]																													
August 2012															**17**		5.0	**22**		5.0	5	U	5.0	6.0		**5.0**	NSD		
February 2013			**22**		5.0	**17**		5.0	**60**		25	**60**		25	**70**		25	**17**		5.0	**22**		5.0	**60**		25	**19**		5.0
May 2013			6		5.0	7		5.0	5	U	5.0	5	U	5.0	8		5.0	5	U	5.0	5	U	5.0	5	U	5.0	5	U	5.0
August 2013			6		5.0	5		5.0	5	U	5.0	**35**		25	5	U	5.0	5	U	5.0	5	U	5.0	5	U	5.0	NSD		
December 2013																													
March 2014																													
Mean			**11**			**10**			**23**			**33**			**25**			**12**			**9**			**23**			**12**		
Standard Deviation			**9**			**6**			**32**			**28**			**30**			**9**			**9**			**32**			**10**		
Mean + 3 Standard Deviations			**39.05**			**28.95**			**118.60**			**115.95**			**116.29**			**38.10**			**34.75**			**118.60**			**41.70**		
May 2012	Total Dissolved	500	400		4.4	450		4.4	310		4.4	260		4.4															
June 2012	Solids (mg/l)																												
August 2012	CAS #C-010														210		4.4	170		4.4	280		4.4	180		4.4	NSD		
February 2013			340		4.4	**600**		4.4	220		4.4	200		4.4	180		4.4	170		4.4	300		4.4	240		4.4	38		4.4
May 2013			360		4.4	280		4.4	240		4.4	220		4.4	220		4.4	180		4.4	320		4.4	230		4.4	110		4.4
August 2013			370		4.4	430		4.4	240		4.4	240		4.4	210		4.4	220		4.4	330		4.4	260		4.4	NSD		
December 2013																													
March 2014																													
October 2014			360		3.6	350		3.6	240		3.6	230		3.6	210		3.6	200		3.6	320		3.6	190		3.6	NSD		
Mean			**366**			**422**			**250**			**230**			**206**			**188**			**310**			**220**			**74**		
Standard Deviation			**22**			**120**			**35**			**22**			**15**			**22**			**20**			**34**			**51**		
Mean + 3 Standard Deviations			**432**			**783**			**354**			**297**			**251**			**253**			**370**			**322**			**227**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Chemical Oxygen	No Standard	23		7.0	16	J	7.0	260		14	20		7.0															
June 2012	Demand (mg/l)																												
August 2012	CAS #C-004														7.0	U	7.0	7.0	U	7.0	15	J	7.0	13	J	7.0	NSD		
February 2013			7.0	U	7.0	7.0	U	7.0	8.3	J	7.0	20		7.0	7.0	U	7.0	7.0	U	7.0	7.0	U	7.0	11	J	7.0	7.0	U	7.0
May 2013			7.0	U	7.0	7.0	U	7.0	7.0	U	7.0	7.0	U	7.0	7.0	U	7.0	7.0	U	7.0	7.0	U	7.0	7.0	U	7.0	3.5	U	3.5
August 2013			3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	51		3.5	7.7	J	3.5	3.5	U	3.5	7.7	J	3.5	3.5	U	3.5	NSD		
December 2013																													
March 2014																													
October 2014			5	J	3.5	3.5	U	3.5	7.3	U	3.5	7.3	J	3.5	5	J	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	NSD		
Mean			**9.10**			**7.40**			**57.22**			**21.06**			**6.74**			**5.60**			**8.04**			**7.60**			**5.25**		
Standard Deviation			**7.91**			**5.12**			**113.37**			**17.93**			**1.02**			**1.92**			**4.22**			**4.32**			**2.47**		
Mean + 3 Standard Deviations			**32.83**			**22.75**			**397.34**			**74.84**			**9.80**			**11.35**			**20.71**			**20.56**			**12.67**		
May 2012	Biochemical Oxygen	No Standard	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA															
June 2012	Demand (mg/l)[3]																												
August 2012	CAS #C-003														0	ND	NA	8.2		NA	0	ND	NA	0	ND	NA	NSD		
February 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	3.7		NA	2.5		NA	0	ND	NA	0	ND	NA	0	ND	NA
May 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA
August 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	NSD		
December 2013																													
March 2014																													
October 2014			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	NSD		
Mean			**0.00**			**0.00**			**0.00**			**0.00**			**0.74**			**2.14**			**0.00**			**0.00**			**0.00**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**1.65**			**3.56**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.00**			**0.00**			**0.00**			**0.00**			**5.70**			**12.81**			**0.00**			**0.00**			**0.00**		
May 2012	Total Organic	No Standard	3.4		0.10	3.1		0.10	4.5		0.10	3.0		0.10															
June 2012	Carbon (mg/l)																												
August 2012	CAS #C-012														1.4		0.05	2.4		0.03	1.6		0.05	1.2		0.03	NSD		
February 2013			1.38		0.052	2.46		0.052	1.31		0.052	1.23		0.052	2.91		0.052	2.62		0.052	1.74		0.052	1.13		0.052	1.28		0.052
May 2013			1.43		0.052	2.54		0.052	1.31		0.052	1.31		0.052	2.01		0.052	1.85		0.052	1.66		0.052	1.5		0.052	1.14		0.052
August 2013			1.32		0.052	1.98		0.052	1.27		0.052	1.4		0.052	1.66		0.052	1.28		0.052	1.49		0.052	1.38		0.052	NSD		
December 2013																													
March 2014																													
October 2014			0.5		0.118	1.11		0.118	0.41	J	0.118	0.43	J	0.118	0.42	J	0.118	0.43	J	0.118	0.6		0.118	0.48	J	0.118	NSD		
Mean			**1.61**			**2.24**			**1.76**			**1.09**			**1.68**			**1.72**			**1.42**			**1.14**			**1.21**		
Standard Deviation			**1.07**			**0.75**			**1.58**			**0.45**			**0.91**			**0.89**			**0.47**			**0.40**			**0.10**		
Mean + 3 Standard Deviations			**4.83**			**4.47**			**6.50**			**2.43**			**4.40**			**4.38**			**2.82**			**2.33**			**1.51**		
May 2012	Sulfate (mg/l)	250	71		0.16	110		1.6	54		0.16	38		0.16															
June 2012	CAS #18785-72-3																												
August 2012															39	J	8.1	31	J	8.1	44	J	8.1	39	J	8.1	NSD		
February 2013			72		0.229	**297**		2.29	35.4		0.229	31.5		0.229	23		0.229	20.6		0.229	57.6		0.229	29.1		0.229	11.0		0.229
May 2013			67.8		0.229	77.4		0.229	34.4		0.229	30.6		0.229	25.3		0.229	20.7		0.229	54.7		0.229	30.8		0.229	12.7		0.229
August 2013			66.9		0.229	116		2.29	37		0.229	31.2		0.229	16.8		0.229	24.9		0.229	59.3		0.229	33.8		0.229	NSD		
December 2013																													
March 2014																													
October 2014			71		0.26	106		1.3	37.2		0.65	35.1		0.13	28.2		0.13	25.8		0.13	60.7		0.26	21.6		0.13	NSD		
Mean			**69.7**			**141.3**			**39.6**			**33.3**			**26.5**			**24.6**			**55.3**			**30.9**			**11.9**		
Standard Deviation			**2.2**			**88.3**			**8.1**			**3.2**			**8.2**			**4.3**			**6.7**			**6.4**			**1.2**		
Mean + 3 Standard Deviations			**76.5**			**406.2**			**64.0**			**42.8**			**51.0**			**37.5**			**75.3**			**50.1**			**15.5**		
May 2012	Alkalinity (mg/l)	No Standard	270		NA	240		NA	200		NA	180		NA															
June 2012	CAS #10001																												
August 2012															190		NA	170		NA	220		NA	180		NA	NSD		
February 2013			263		NA	225		NA	178		NA	174		NA	163		NA	151		NA	220		NA	192		NA	77.0		NA
May 2013			263		NA	146		NA	178		NA	173		NA	168		NA	158		NA	218		NA	184		NA	83.6		NA
August 2013			269		NA	227		NA	183		NA	174		NA	166		NA	163		NA	222		NA	178		NA	NSD		
December 2013																													
March 2014																													
October 2014			268		NA	203		NA	178		NA	168		NA	170		NA	160		NA	228		NA	149		NA	NSD		
Mean			**266.6**			**208.2**			**183.4**			**173.8**			**171.4**			**160.4**			**221.6**			**176.6**			**80.3**		
Standard Deviation			**3.4**			**37.2**			**9.5**			**4.3**			**10.7**			**6.9**			**3.8**			**16.3**			**4.7**		
Mean + 3 Standard Deviations			**276.7**			**319.9**			**212.0**			**186.6**			**203.5**			**181.2**			**233.1**			**225.6**			**94.3**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Salinity (SU)	No Standard	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0															
June 2012	CAS #10047																												
August 2012															2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	NSD		
February 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
May 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
August 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	NSD		
December 2013																													
March 2014																													
October 2014			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	NSD		
Mean			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**			**2.0**		
Standard Deviation			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**			**0.0**		
Mean + 3 Standard Deviations			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**		
May 2012	Bromide (mg/l)	2 (GV)	0.09		0.01	0.01	U	0.01	0.16		0.01	0.01	U	0.01															
June 2012	CAS #7726-95-6																												
August 2012															**2.1**	J	0.68	0.68	U	0.68	0.68	U	0.68	0.68	U	0.68	NSD		
February 2013			0.01	U	0.010	0.1	U	0.100	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010
May 2013			0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010
August 2013			0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	NSD		
December 2013																													
March 2014																													
October 2014			0.032	U	0.032	0.163	U	0.163	0.081	U	0.081	0.016	U	0.016	0.016	U	0.016	0.016	U	0.016	0.032	U	0.032	0.016	U	0.016	NSD		
Mean			**0.03**			**0.06**			**0.05**			**0.01**			**0.43**			**0.15**			**0.15**			**0.15**			**0.01**		
Standard Deviation			**0.035**			**0.070**			**0.067**			**0.003**			**0.934**			**0.299**			**0.297**			**0.299**			**0.000**		
Mean + 3 Standard Deviations			**0.13**			**0.27**			**0.25**			**0.02**			**3.23**			**1.04**			**1.04**			**1.04**			**0.01**		
May 2012	Chloride (mg/l)	250	3.2		0.09	17		0.09	2.6		0.09	1.8		0.09															
June 2012	CAS #16887-00-6																												
August 2012															12	J	4.4	4.4	U	4.4	4.4	U	4.4	4.4	U	4.4	NSD		
February 2013			2.71		0.168	5.52		1.68	1.83		0.168	1.75		0.168	2.79		0.168	2.24		0.168	6.41		0.168	0.763		0.168	1.56		0.168
May 2013			2.46		0.168	3.78		0.168	1.69		0.168	1.69		0.168	1.86		0.168	1.62		0.168	5.84		0.168	0.999		0.168	1.08		0.168
August 2013			2.54		0.168	13.4		0.168	1.94		0.168	1.87		0.168	2.68		0.168	1.53		0.168	5.79		0.168	1.11		0.168	NSD		
December 2013																													
March 2014																													
October 2014			2.220		0.195	8.370		0.974	1.670		0.487	1.530		0.097	1.400		0.097	1.360		0.097	4.920		0.195	2.650		0.097	NSD		
Mean			**2.6**			**9.6**			**1.9**			**1.7**			**4.1**			**2.2**			**5.5**			**2.0**			**1.3**		
Standard Deviation			**0.4**			**5.5**			**0.4**			**0.1**			**4.4**			**1.3**			**0.8**			**1.5**			**0.3**		
Mean + 3 Standard Deviations			**3.72**			**26.13**			**3.09**			**2.11**			**17.43**			**6.00**			**7.88**			**6.61**			**2.34**		
May 2012	Total Hardness	No Standard	290		0.24	330		0.24	360		0.24	180		0.24															
June 2012	(mg/l)																												
August 2012															200		NA	140		NA	260		NA	190		NA	NSD		
February 2013			270		NA	300		NA	170		NA	140		NA	140		NA	130		NA	240		NA	180		NA	79		NA
May 2013			290		NA	150		NA	190		NA	180		NA	170		NA	150		NA	260		NA	180		NA	96		NA
August 2013			290		NA	310		NA	210		NA	190		NA	170		NA	160		NA	280		NA	180		NA	NSD		
December 2013																													
March 2014																													
October 2014			280		NA	250		NA	180		NA	170		NA	160		NA	160		NA	260		NA	150		NA	NSD		
Mean			**284.0**			**268.0**			**222.0**			**172.0**			**168.0**			**148.0**			**260.0**			**176.0**			**87.5**		
Standard Deviation			**8.9**			**72.2**			**78.5**			**19.2**			**21.7**			**13.0**			**14.1**			**15.2**			**12.0**		
Mean + 3 Standard Deviations			**311**			**485**			**458**			**230**			**233**			**187**			**302**			**221**			**124**		
May 2012	Total Kjeldahl	No Standard	0.8		0.06	0.38		0.06	7.8	J	3.0	0.42		0.06															
June 2012	Nitrogen (mg/l)																												
August 2012	CAS #7727-37-9														0.43		0.06	0.88		0.06	0.4		0.06	0.45		0.06	NSD		
February 2013			0.32		0.06	0.24	J	0.06	0.68		0.06	0.32		0.06	0.48		0.06	0.71		0.06	0.53		0.06	0.4		0.06	0.11	J	0.06
May 2013			0.52		0.060	0.21	J	0.060	0.25	J	0.060	0.24	J	0.060	0.46		0.060	0.6		0.060	0.22	J	0.060	0.31		0.060	0.16	J	0.060
August 2013			0.55		0.060	0.39		0.060	0.31		0.060	0.71		0.060	0.53		0.060	0.57		0.060	0.36		0.060	0.35		0.060	NSD		
December 2013																													
March 2014																													
October 2014			0.28	J	0.093	0.24	J	0.093	0.18	J	0.093	0.16	J	0.093	0.33		0.093	0.27	J	0.093	0.16	J	0.093	0.19	J	0.093	NSD		
Mean			**0.49**			**0.29**			**1.84**			**0.37**			**0.45**			**0.61**			**0.33**			**0.34**			**0.14**		
Standard Deviation			**0.21**			**0.09**			**3.34**			**0.21**			**0.07**			**0.22**			**0.15**			**0.10**			**0.04**		
Mean + 3 Standard Deviations			**1.12**			**0.55**			**11.85**			**1.01**			**0.67**			**1.28**			**0.78**			**0.64**			**0.24**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Nitrogen, Ammonia	No Standard	0.364		0.017	0.108		0.017	3.5		0.413	0.179		0.017															
June 2012	(mg/l)																												
August 2012	CAS #7664-41-7														0.404		0.017	0.706		0.017	0.248		0.017	0.331		0.017	NSD		
February 2013			0.223		0.032	0.122		0.032	0.291		0.032	0.117		0.032	0.265		0.032	0.561		0.032	0.445		0.032	0.332		0.032	0.032	U	0.032
May 2013			0.303		0.031	0.073	J	0.031	0.115		0.031	0.091		0.031	0.262		0.031	0.348		0.031	0.101		0.031	0.184		0.031	0.057	J	0.031
August 2013			0.272		0.031	0.051	J	0.031	0.104		0.031	0.101		0.031	0.307		0.031	0.196		0.031	0.066	J	0.031	0.149		0.031	NSD		
December 2013																													
March 2014																													
October 2014			0.19		0.021	0.029	J	0.021	0.027	J	0.021	0.029	J	0.021	0.102		0.021	0.113		0.021	0.156		0.021	0.099		0.021	NSD		
Mean			**0.270**			**0.077**			**0.807**			**0.103**			**0.268**			**0.385**			**0.203**			**0.219**			**0.045**		
Standard Deviation			**0.068**			**0.039**			**1.508**			**0.054**			**0.109**			**0.248**			**0.152**			**0.107**			**0.018**		
Mean + 3 Standard Deviations			**0.475**			**0.193**			**5.332**			**0.265**			**0.595**			**1.127**			**0.658**			**0.540**			**0.098**		
May 2012	Nitrogen, Nitrate	10	0.04	J	0.02	0.03	J	0.02	0.02	J	0.02	0.04	J	0.02															
June 2012	(mg/l)																												
August 2012	CAS #14797-55-8														0.11		0.02	0.099	J	0.018	0.1		0.02	0.098	J	0.018	NSD		
February 2013			0.02	U	0.02	0.02	U	0.02	0.03	J	0.02	0.14		0.02	0.02	U	0.02	0.02	U	0.02	0.02	J	0.02	0.02	U	0.02	0.46		0.02
May 2013			0.015	U	0.015	0.051	J	0.015	0.027	J	0.015	0.032	J	0.015	0.031	J	0.015	0.031	J	0.015	0.034	J	0.015	0.015	U	0.015	0.066	J	0.015
August 2013			0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	NSD		
December 2013																													
March 2014																													
October 2014			0.052	J	0.021	0.021	U	0.021	0.021	U	0.021	0.075	J	0.021	0.16		0.021	0.068	J	0.021	0.021	U	0.021	0.021	U	0.021	NSD		
Mean			**0.028**			**0.027**			**0.023**			**0.060**			**0.067**			**0.047**			**0.038**			**0.034**			**0.263**		
Standard Deviation			**0.017**			**0.014**			**0.006**			**0.050**			**0.065**			**0.036**			**0.035**			**0.036**			**0.279**		
Mean + 3 Standard Deviations			**0.079**			**0.070**			**0.040**			**0.209**			**0.261**			**0.154**			**0.144**			**0.142**			**1.099**		
May 2012	Total Phenols (mg/l)	0.001	**0.02**	J	0.01	**0.05**		0.01	**0.04**		0.01	**0.07**		0.01															
June 2012	CAS #C-020																												
August 2012															**0.07**		0.01	**0.12**		0.01	**0.05**		0.01	**0.03**		0.01	NSD		
February 2013			0.01	U	0.01	**0.02**	J	0.01	**0.01**	J	0.01	0.01	U	0.01	**0.01**	J	0.01	**0.02**	J	0.01	0.01	U	0.01	**0.01**	J	0.01	**0.01**	J	0.01
May 2013			**0.05**		0.009	**0.03**		0.009	**0.03**		0.009	**0.03**		0.009	**0.02**	J	0.009	**0.02**	J	0.009	**0.03**		0.009	**0.07**		0.009	0.009	U	0.009
August 2013			**0.02**	J	0.009	**0.03**		0.009	**0.05**		0.009	**0.03**		0.009	**0.02**	J	0.009	**0.01**	J	0.009	**0.02**	J	0.009	**0.04**		0.009	NSD		
December 2013																													
March 2014																													
October 2014			**0.009**	J	0.009	0.009	U	0.009	0.009	U	0.009	**0.011**	J	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	NSD		
Mean			**0.022**			**0.028**			**0.028**			**0.030**			**0.026**			**0.036**			**0.024**			**0.032**			**0.010**		
Standard Deviation			**0.017**			**0.015**			**0.018**			**0.024**			**0.025**			**0.047**			**0.017**			**0.025**			**0.001**		
Mean + 3 Standard Deviations			**0.072**			**0.073**			**0.082**			**0.103**			**0.102**			**0.178**			**0.075**			**0.107**			**0.012**		
May 2012	Total Cyanide (ug/l)	200	2	U	2	4	J	2	2	U	2	2	J	2															
June 2012	CAS #57-12-5																												
August 2012															5		2	2	J	2	2	U	2	2	J	2	NSD		
February 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1
May 2013			11		1	1	U	1	1	U	1	1	U	1	1	J	1	4	J	1	1	U	1	2	J	1	1	U	1
August 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	J	1	1	U	1	1	U	1	1	U	1	NSD		
December 2013																													
March 2014																													
Mean			**3.75**			**1.75**			**1.25**			**1.25**			**2.00**			**2.00**			**1.25**			**1.50**			**1.00**		
Standard Deviation			**4.86**			**1.50**			**0.50**			**0.50**			**2.00**			**1.41**			**0.50**			**0.58**			**0.00**		
Mean + 3 Standard Deviations			**18.32**			**6.25**			**2.75**			**2.75**			**8.00**			**6.24**			**2.75**			**3.23**			**1.00**		
Metals																													
May 2012	Aluminum (ug/l)	2,000	1,900		2	1,600		20	**55,000**		20	**2,100**		20															
June 2012[2]	CAS #7429-90-5		7	J	2	8	J	2	35		2	35		2															
August 2012															482		10	64		10	160		10	666		10	NSD		
February 2013			42		2	144		2	460		2	23		2	562		10	261		2	184		2	343		2	41		2
May 2013			274		2.0	110		2.0	108		2.0	90.5		2.0	799		100	78.8		2.0	181		20.0	182		20.0	179		2.0
August 2013			194		2.0	154		2.0	138		2.0	**5,780**		40.0	189		2.0	644		40.0	250		2.0	246		2.0	NSD		
December 2013																													
March 2014																													
Mean			**129.25**			**104.00**			**185.25**			**1,482.13**			**508.00**			**261.95**			**193.75**			**359.25**			**110.00**		
Standard Deviation			**126.10**			**66.71**			**188.20**			**2,865.40**			**251.68**			**269.99**			**38.99**			**214.94**			**97.58**		
Mean + 3 Standard Deviations			**507.55**			**304.14**			**749.86**			**10,078.3**			**1,263.05**			**1,071.93**			**310.72**			**1,004.08**			**402.74**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Antimony (ug/l)	3	0.8		0.1	0.6		0.1	0.6		0.1	0.4	J	0.1															
June 2012[2]	CAS #7440-36-0		0.6		0.1	0.8		0.1	0.5		0.1	0.4	J	0.1															
August 2012															0.5	J	0.5	0.5	U	0.5	0.7	J	0.5	0.6	J	0.5	NSD		
February 2013			1.6	J	0.1	1.4	J	0.1	1.5	J	0.1	0.5	J	0.1	1.4	J	0.1	1.1	J	0.1	1	J	0.1	1.1	J	0.1	1.3	J	0.1
May 2013			0.38	J	0.10	0.4	J	0.10	0.19	J	0.10	0.29	J	0.10	0.65		0.10	0.4	J	0.10	0.36	J	0.10	0.23	J	0.10	0.1	J	0.10
August 2013			0.1	U	0.10	0.2	J	0.10	0.29	J	0.10	0.14	J	0.10	0.18	J	0.10	0.27	J	0.10	0.4	J	0.10	0.15	J	0.10	NSD		
December 2013																													
March 2014																													
Mean			**0.67**			**0.70**			**0.62**			**0.33**			**0.68**			**0.57**			**0.62**			**0.52**			**0.70**		
Standard Deviation			**0.65**			**0.53**			**0.60**			**0.15**			**0.52**			**0.37**			**0.30**			**0.43**			**0.85**		
Mean + 3 Standard Deviations			**2.63**			**2.29**			**2.42**			**0.80**			**2.23**			**1.67**			**1.51**			**1.82**			**3.25**		
May 2012	Arsenic (ug/l)	25	3	J	3	10		3	**31**		3	7		3															
June 2012[2]	CAS #7440-38-2		2.2		0.2	4.6		0.2	5.7		0.2	4.4		0.2															
August 2012															1.0	U	1.0	1.0	U	1.0	8.1		1.0	5.4		1.0	NSD		
February 2013			4.3		0.2	3.8		0.2	7.8		0.2	0.6	J	0.2	1.4		0.2	1.0		0.2	3.2		0.2	4.7		0.2	0.9	J	0.2
May 2013			3.33		0.20	0.94		0.20	5.76		0.20	6.41		0.20	0.68		0.20	0.38	J	0.20	2.29		0.20	5.86		0.20	0.2	U	0.20
August 2013			2.43		0.20	1.16		0.20	8.37		0.20	7.86		0.20	0.56		0.20	0.35	J	0.20	1.19		0.20	5.98		0.20	NSD		
December 2013																													
March 2014																													
Mean			**3.07**			**2.63**			**6.91**			**4.82**			**0.91**			**0.68**			**3.70**			**5.49**			**0.55**		
Standard Deviation			**0.96**			**1.85**			**1.38**			**3.15**			**0.38**			**0.37**			**3.05**			**0.58**			**0.49**		
Mean + 3 Standard Deviations			**5.94**			**8.17**			**11.05**			**14.27**			**2.04**			**1.78**			**12.84**			**7.22**			**2.03**		
May 2012	Barium (ug/l)	1,000	50		1	39		1	354		1	92		1															
June 2012[2]	CAS #7440-39-3		39.6		0.1	41		0.1	63.6		0.1	101.3		0.1															
August 2012															67.7		0.5	69		0.5	56.8		0.5	64.4		0.5	NSD		
February 2013			39.9		0.1	29.4		0.1	97.5		0.1	8.2		0.1	100.1		0.1	80		0.1	51.8		0.1	85.6		0.1	6.5		0.1
May 2013			44.36		0.10	18.42		0.10	75.26		0.10	107.5		0.10	104		0.10	80.63		0.10	44.99		0.10	80.18		0.10	7.66		0.10
August 2013			41.4		0.10	56.66		0.10	81.49		0.10	141.2		0.10	83.02		0.10	74.81		0.10	43.76		0.10	81.16		0.10	NSD		
December 2013																													
March 2014																													
Mean			**41.32**			**36.37**			**79.46**			**89.55**			**88.71**			**76.11**			**49.34**			**77.84**			**7.08**		
Standard Deviation			**2.18**			**16.37**			**14.13**			**57.00**			**16.71**			**5.41**			**6.10**			**9.26**			**0.82**		
Mean + 3 Standard Deviations			**47.85**			**85.48**			**121.84**			**260.54**			**138.82**			**92.34**			**67.65**			**105.62**			**9.54**		
May 2012	Beryllium (ug/l)	3 (GV)	0.1	U	0.1	0.1	U	0.1	2.8		0.1	0.1	U	0.1															
June 2012[2]	CAS #7440-41-7		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.5	U	0.5	0.5	U	0.5	0.5	U	0.5	0.5	U	0.5	NSD		
February 2013			0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1
May 2013			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
August 2013			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.3	J	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	NSD		
December 2013																													
March 2014																													
Mean			**0.10**			**0.10**			**0.10**			**0.15**			**0.20**			**0.20**			**0.20**			**0.20**			**0.10**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.10**			**0.20**			**0.20**			**0.20**			**0.20**			**0.00**		
Mean + 3 Standard Deviations			**0.10**			**0.10**			**0.10**			**0.45**			**0.80**			**0.80**			**0.80**			**0.80**			**0.10**		
May 2012	Boron (ug/l)	1,000	147		8	21	J	8	140		8	108		8															
June 2012[2]	CAS #7440-42-8		102		8	19	J	8	88		8	84		8															
August 2012															85		8	104		8	49		8	75		8	NSD		
February 2013			120		8	62		8	84		8	14	J	8	81		8	9.2		8	44		8	83		8	11	J	8
May 2013			125		8.0	26.7	J	8.0	72.9		8.0	83.5		8.0	69.2		8.0	80.1		8.0	28	J	8.0	74.7		8.0	12.4	J	8.0
August 2013			132		7.0	18.9	J	7.0	61.5		7.0	83.2		7.0	67.2		7.0	52.2		7.0	22.8	J	7.0	70.2		7.0	NSD		
December 2013																													
March 2014																													
Mean			**119.75**			**31.65**			**76.60**			**66.18**			**75.60**			**61.38**			**35.95**			**75.73**			**11.70**		
Standard Deviation			**12.82**			**20.56**			**11.92**			**34.78**			**8.74**			**40.72**			**12.53**			**5.32**			**0.99**		
Mean + 3 Standard Deviations			**158.20**			**93.33**			**112.37**			**170.53**			**101.81**			**183.53**			**73.55**			**91.70**			**14.67**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Cadmium (ug/l)	5	1	U	1	1	U	1	2	J	1	1	U	1															
June 2012[2]	CAS #7440-43-9		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	NSD		
February 2013			0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1
May 2013			0.05	U	0.05	0.2		0.05	0.05	U	0.05	0.24		0.05	0.08	J	0.05	0.84		0.05	0.06	J	0.05	0.05	U	0.05	0.06	J	0.05
August 2013			0.05	U	0.05	0.3		0.05	0.09	J	0.05	0.05	U	0.05	0.14	J	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	NSD		
December 2013																													
March 2014																													
October 2014			0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	NSD		
Mean			**0.07**			**0.15**			**0.08**			**0.11**			**0.13**			**0.27**			**0.11**			**0.11**			**0.08**		
Standard Deviation			**0.03**			**0.10**			**0.03**			**0.08**			**0.10**			**0.34**			**0.11**			**0.11**			**0.03**		
Mean + 3 Standard Deviations			**0.15**			**0.45**			**0.16**			**0.34**			**0.43**			**1.28**			**0.43**			**0.44**			**0.16**		
May 2012	Calcium (ug/l)	No Standard	78,000		20	89,000		20	80,000		20	50,000		20															
June 2012[2]	CAS #7440-70-2		72,200		320	92,700		320	50,200		320	48,300		32															
August 2012															55,800		160	38,100		160	67,400		160	49,500		160	NSD		
February 2013			79,400		160	88,600		160	56,400		160	47,600		32	43,500		32	39,300		32	65,200		160	52,600		160	25,400		32
May 2013			83,500		320	38,600		32.0	53,500		320	55,200		320	50,000		320	47,000		32.0	70,900		320	50,000		320	26,700		32.0
August 2013			79,000		30	95,000		30	57,000		30	53,000		30	47,000		30	45,000		30	77,000		30	50,000		30	NSD		
December 2013																													
March 2014																													
October 2014			73,000		30	78,000		30	52,000		30	48,000		30	44,000		30	44,000		30	70,000		30	41,000		30	NSD		
Mean			**77,420**			**78,580**			**53,820**			**50,420**			**48,060**			**42,680**			**70,100**			**48,620**			**26,050**		
Standard Deviation			**4,748**			**23,282**			**2,885**			**3,457**			**5,052**			**3,814**			**4,460**			**4,430**			**919**		
Mean + 3 Standard Deviations			**91,664**			**148,425**			**62,474**			**60,791**			**63,215**			**54,122**			**83,479**			**61,909**			**28,808**		
May 2012	Chromium (ug/l)	50	3	J	2	3	J	2	**80**		2	3	J	2															
June 2012[2]	CAS #7440-47-3		0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2															
August 2012															1.4	J	1.0	1.0	U	1.0	1.0	U	1.0	1.7	J	1.0	NSD		
February 2013			0.2	U	0.2	0.4	J	0.2	0.8	J	0.2	0.2	U	0.2	1		0.2	0.5	J	0.2	0.5	J	0.2	0.8	J	0.2	0.4	J	0.2
May 2013			0.65	J	0.20	0.47	J	0.20	0.43	J	0.20	0.39	J	0.20	2.47		0.20	0.32	J	0.20	0.57	J	0.20	0.55	J	0.20	0.2	U	0.20
August 2013			0.75	J	0.20	0.67	J	0.20	0.58	J	1.0	8.57		0.20	1		0.20	1.5		0.20	0.79	J	0.20	0.8	J	0.20	NSD		
December 2013																													
March 2014																													
Mean			**0.45**			**0.44**			**0.50**			**2.34**			**1.47**			**0.83**			**0.72**			**0.96**			**0.30**		
Standard Deviation			**0.29**			**0.19**			**0.25**			**2.88**			**0.69**			**0.53**			**0.23**			**0.51**			**0.14**		
Mean + 3 Standard Deviations			**1.32**			**1.02**			**1.26**			**3.92**			**3.55**			**2.42**			**1.39**			**2.48**			**0.72**		
May 2012	Chromium,	50	1	U	1	1	U	1	2		J	1	U	1															
June 2012	Hexavalent (ug/l)																												
August 2012	CAS #18540-29-9														1	U	1	1	U	1	1	U	1	1	U	1	NSD		
February 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1
May 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	4	J	1	1	J	1	1	U	1	1	J	1
August 2013			1	U	1	1	U	1	1	J	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	NSD		
December 2013																													
March 2014																													
Mean			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.75**			**1.00**			**1.00**			**1.00**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**1.50**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**6.25**			**1.00**			**1.00**			**1.00**		
May 2012	Cobalt (ug/l)	No Standard	2	U	2	2	U	2	47		2	2	U	2															
June 2012[2]	CAS #7440-48-4		0.1	U	0.1	0.2	J	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.5	U	0.5	0.5	U	0.5	0.5	U	0.5	0.6	J	0.5	NSD		
February 2013			0.1	U	0.1	1.3		0.1	0.4	J	0.1	0.1	U	0.1	0.3	J	0.1	0.2	J	0.1	0.4	J	0.1	0.4	J	0.1	0.1	U	0.1
May 2013			0.28	J	0.10	0.45	J	0.10	0.15	J	0.10	0.12	J	0.10	0.48	J	0.10	0.1	U	0.10	0.49	J	0.10	0.27		0.10	0.19	J	0.10
August 2013			0.28	J	0.10	0.92		0.10	0.24	J	0.10	4.63		0.10	0.13	J	0.10	0.53		0.10	0.81		0.10	0.3	J	0.10	NSD		
December 2013																													
March 2014																													
Mean			**0.19**			**0.72**			**0.22**			**1.24**			**0.35**			**0.33**			**0.55**			**0.39**			**0.15**		
Standard Deviation			**0.10**			**0.49**			**0.13**			**2.26**			**0.17**			**0.22**			**0.18**			**0.15**			**0.06**		
Mean + 3 Standard Deviations			**0.50**			**2.19**			**0.62**			**8.02**			**0.87**			**0.98**			**1.09**			**0.84**			**0.34**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Copper (ug/l)	200	5	U	5	5	U	5	56		5	5	U	5															
June 2012[2]	CAS #7440-50-8		0.1	J	0.1	0.1	J	0.1	0.1	U	0.1	0.1	J	0.1															
August 2012															1.1	J	0.5	0.9	J	0.5	1.2	J	0.5	2.4	J	0.5	NSD		
February 2013			0.1	U	0.1	0.6	J	0.1	0.7	J	0.1	0.2	J	0.1	0.2	J	0.1	0.1	J	0.1	0.4	J	0.1	0.6	J	0.1	0.3	J	0.1
May 2013			0.46	J	0.10	0.62	J	0.10	0.21	J	0.10	0.42	J	0.10	0.5	J	0.10	0.12	J	0.10	0.5	J	0.10	0.5	J	0.10	0.1	U	0.10
August 2013			0.51	J	1.0	0.63	J	0.10	0.44	J	0.10	4.1		0.10	0.32	J	0.10	0.55	J	0.10	0.98	J	0.10	0.65	J	0.10	NSD		
December 2013																													
March 2014																													
Mean			**0.29**			**0.49**			**0.36**			**1.21**			**0.53**			**0.42**			**0.77**			**1.04**			**0.20**		
Standard Deviation			**0.34**			**0.26**			**0.27**			**1.93**			**0.40**			**0.38**			**0.38**			**0.91**			**0.14**		
Mean + 3 Standard Deviations			**0.19**			**1.26**			**1.16**			**7.01**			**1.73**			**1.57**			**1.92**			**3.77**			**0.62**		
May 2012	Iron (ug/l)	300	**4,300**		20	**3,300**		20	**110,000**		20	**4,400**		20															
June 2012[2]	CAS #7439-89-6		80		13	50		13	31	J	13	44	J	13															
August 2012															**1,330**		65	244	J	65	**370**		65	**1,490**		65	NSD		
February 2013			**569**		13	**501**		13	**955**		13	25	J	13	**1,140**		13	**456**		13	**332**		13	**756**		13	49	J	13
May 2013			**696**		13.0	236		13.0	222		13.0	**379**		13.0	**1,160**		13.0	194		13.0	**313**		13.0	**474**		13.0	214		13.0
August 2013			**1,030**		13.0	**704**		13.0	**611**		13.0	**12,000**		13.0	**767**		13.0	**1,600**		13.0	**737**		13.0	**695**		13.0	NSD		
December 2013																													
March 2014																													
October 2014			**432**		12	**587**		12	**362**		12	**627**		12	**600**		12	**448**		12	**434**		12	**805**		12	NSD		
Mean			**561**			**416**			**436**			**2,615**			**999**			**588**			**437**			**844**			**132**		
Standard Deviation			**349**			**267**			**359**			**5,252**			**303**			**578**			**174**			**383**			**117**		
Mean + 3 Standard Deviations			**1,607**			**1,217**			**1,513**			**18,372**			**1,910**			**2,321**			**959**			**1,992**			**482**		
May 2012	Lead (ug/l)	25	3	U	3	3	U	3	**39**		3	3	U	3															
June 2012[2]	CAS #37439-92-1		0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2															
August 2012															1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	NSD		
February 2013			0.2	U	0.2	0.3	J	0.2	1.2		0.2	0.2	U	0.2	0.4	J	0.2	0.2	J	0.2	0.2	J	0.2	0.6	J	0.2	0.2	U	0.2
May 2013			0.39	J	0.20	0.35	J	0.20	0.2	U	0.20	0.22	J	0.20	0.52		0.20	0.2	U	0.20	0.33	J	0.20	0.33	J	0.20	0.21	J	0.20
August 2013			0.47	J	0.20	0.23	J	0.20	0.22	J	1.0	3.69		0.20	0.2	U	0.20	0.54	J	0.20	0.38	J	0.20	0.37	J	0.20	NSD		
December 2013																													
March 2014																													
October 2014			0.16	J	0.12	0.39	J	0.12	0.12	U	0.12	0.22	J	0.12	0.21	J	0.12	0.15	J	0.12	0.15	J	0.12	0.4	J	0.12	NSD		
Mean			**0.32**			**0.27**			**0.39**			**1.08**			**0.53**			**0.49**			**0.48**			**0.58**			**0.21**		
Standard Deviation			**0.14**			**0.07**			**0.46**			**1.74**			**0.34**			**0.38**			**0.36**			**0.31**			**0.01**		
Mean + 3 Standard Deviations			**0.73**			**0.47**			**1.75**			**6.30**			**1.55**			**1.62**			**1.55**			**1.50**			**0.23**		
May 2012	Magnesium (ug/l)	35,000 (GV)	24,000		50	27,000		50	**40,000**		50	13,000		50															
June 2012[2]	CAS #7439-95-4		22,100		23	27,700		23	13,200		23	11,600		23															
August 2012															15,000		115	10,900		115	21,100		115	15,600		115	NSD		
February 2013			24,700		23	26,700		23	16,500		23	11,600		23	13,000		23	11,600		23	23,700		23	16,700		23	6,880		23
May 2013			25,200		23.0	8,360		23.0	14,500		23.0	13,400		23.0	14,100		23.0	13,600		23.0	25,200		23.0	16,400		23.0	6,970		23.0
August 2013			24,000		10	18,000		10	16,000		10	15,000		10	13,000		10	11,000		10	22,000		10	15,000		10	NSD		
December 2013																													
March 2014																													
October 2014			23,000		10	14,000		10	14,000		10	12,000		10	12,000		10	12,000		10	21,000		10	12,000		10	NSD		
Mean			**23,800**			**18,952**			**14,840**			**12,720**			**13,420**			**11,820**			**22,600**			**15,140**			**6,925**		
Standard Deviation			**1,259**			**8,279**			**1,379**			**1,474**			**1,154**			**1,092**			**1,812**			**1,878**			**64**		
Mean + 3 Standard Deviations			**27,577**			**43,789**			**18,978**			**17,141**			**16,882**			**15,095**			**28,037**			**20,775**			**7,116**		
May 2012	Manganese (ug/l)	300	209		1	260		1	**1,480**		1	186		1															
June 2012[2]	CAS #7439-96-5		158.1		0.1	216.4		0.1	89.3		0.1	105.6		0.1															
August 2012															120.8		0.5	117.8		0.5	108		0.5	123.4		0.5	NSD		
February 2013			126.2		0.1	**496.7**		0.5	96.9		0.1	69		0.1	82.5		0.1	85.9		0.1	119.8		0.1	109.2		0.1	2.9		0.1
May 2013			142		0.10	106		0.10	76.53		0.10	97.25		0.10	104		0.10	98.84		0.10	117.9		0.10	103.6		0.10	10.78		0.10
August 2013			129.9		0.10	**377.6**		0.10	83.22		0.10	274.6		0.10	93.64		0.10	133.4		0.10	159.6		0.10	101.8		0.10	NSD		
December 2013																													
March 2014																													
October 2014			131.4		0.3	**392.2**		0.3	76.61		0.3	70.65		0.3	133.8		0.3	121.2		0.3	142.1		0.3	77.5		0.3	NSD		
Mean			**137.52**			**317.78**			**84.51**			**123.42**			**106.95**			**111.43**			**129.48**			**103.10**			**6.84**		
Standard Deviation			**12.92**			**155.13**			**8.72**			**86.03**			**20.59**			**18.90**			**20.95**			**16.63**			**5.57**		
Mean + 3 Standard Deviations			**176.27**			**783.16**			**110.67**			**381.51**			**168.73**			**168.13**			**192.33**			**153.00**			**23.56**		

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FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Mercury (ug/l)	0.7	0.1	U	0.1	0.1	U	0.1	0.3	U	0.3	0.1	U	0.1															
June 2012[2]	CAS #7439-97-6		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	NSD		
February 2013			0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1
May 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
August 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	NSD		
December 2013																													
March 2014																													
Mean			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**			**0.08**		
Standard Deviation			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.03**		
Mean + 3 Standard Deviations			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.15**			**0.16**		
May 2012	Nickel (ug/l)	100	5	J	3	4	J	3	**105**		3	4	J	3															
June 2012[2]	CAS #7440-02-0		0.1	J	0.1	0.4	J	0.1	0.2	J	0.1	0.1	U	0.1															
August 2012															0.8	J	0.5	0.5	U	0.5	0.7	J	0.5	1.5	J	0.5	NSD		
February 2013			0.2	J	0.1	2.2		0.1	0.9		0.1	0.3	J	0.1	0.9		0.1	0.47	J	0.10	0.6		0.1	0.8		0.1	0.4	J	0.1
May 2013			0.63		0.10	0.95		0.10	0.21	J	0.10	0.4	J	0.10	1.3		0.10	0.22	J	0.10	0.72		0.10	0.52		0.10	0.1	U	0.10
August 2013			1.02		0.10	2.05		0.10	0.71		0.10	10.86		0.10	0.67		0.10	1.46		0.10	1.61		0.10	0.94		0.10	NSD		
December 2013																													
March 2014																													
Mean			**0.49**			**1.40**			**0.51**			**2.92**			**0.92**			**0.66**			**0.91**			**0.94**			**0.25**		
Standard Deviation			**0.42**			**0.87**			**0.36**			**5.30**			**0.27**			**0.55**			**0.47**			**0.41**			**0.21**		
Mean + 3 Standard Deviations			**1.76**			**4.01**			**1.57**			**18.81**			**1.73**			**2.30**			**2.32**			**2.18**			**0.89**		
May 2012	Potassium (ug/l)	No Standard	7,400		800	3,500		800	9,700		800	4,600		800															
June 2012[2]	CAS #7440-09-7		6,790		27	3,680		27	2,950		27	2,850		27															
August 2012															4,030		135	20,700		135	4,730		135	5,380		135	NSD		
February 2013			3,370		27	10,800		27	3,530		27	612		27	6,680		27	13,700		27	8,810		27	2,620		27	506		27
May 2013			3,620		27.0	4,080		27.0	2,840		27.0	2,160		27.0	5,930		27.0	11,900		27.0	5,970		27.0	3,320		27.0	593		27.0
August 2013			3,510		27.0	3,170		27.0	2,380		27.0	2,820		27.0	5,590		27.0	5,330		27.0	3,500		27.0	2,800		27.0	NSD		
December 2013																													
March 2014																													
October 2014			1,240		19.3	1,150		19.3	1,160		19.3	1,090		19.3	1,370		19.3	1,530		19.3	1,150		19.3	5,690		19.3	NSD		
Mean			**3,706**			**4,576**			**2,572**			**1,906**			**4,720**			**10,632**			**4,832**			**3,962**			**550**		
Standard Deviation			**1,984**			**3,657**			**889**			**1,016**			**2,107**			**7,472**			**2,849**			**1,463**			**62**		
Mean + 3 Standard Deviations			**9,659**			**15,548**			**5,240**			**4,955**			**11,042**			**33,049**			**13,378**			**8,351**			**734**		
May 2012	Selenium (ug/l)	10	3	U	3	3	U	3	3	U	3	3	U	3															
June 2012[2]	CAS #7782-49-2		0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3															
August 2012															2	U	2	2	U	2	2	U	2	2	U	2	NSD		
February 2013			0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3	0.3	U	0.3
May 2013			0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30
August 2013			0.37	J	0.30	0.3	U	0.30	0.3	U	0.30	0.47	J	0.30	0.43	J	0.30	0.3	U	0.30	0.55	J	0.30	0.3	U	0.30	NSD		
December 2013																													
March 2014																													
Mean			**0.32**			**0.30**			**0.30**			**0.34**			**0.76**			**0.73**			**0.79**			**0.73**			**0.30**		
Standard Deviation			**0.04**			**0.00**			**0.00**			**0.09**			**0.83**			**0.85**			**0.82**			**0.85**			**0.00**		
Mean + 3 Standard Deviations			**0.42**			**0.30**			**0.00**			**0.60**			**3.25**			**3.28**			**3.24**			**3.28**			**0.30**		
May 2012	Silver (ug/l)	50	2	U	2	2	U	2	2	U	2	2	U	2															
June 2012[2]	CAS #7440-22-4		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.8	J	0.5	0.5	U	0.5	0.5	U	0.5	0.5	U	0.5	NSD		
February 2013			0.1	J	0.1	0.2	J	0.1	0.1	J	0.1	0.1	U	0.1	0.1	J	0.1	0.1	J	0.1	0.1	J	0.1	0.1	J	0.1	0.1	U	0.1
May 2013			0.16	J	0.10	0.12	J	0.40	0.1	U	0.10	0.13	J	0.10	0.26	J	0.10	0.13	J	0.10	0.1	J	0.10	0.12	J	0.10	0.1	U	0.10
August 2013			0.11	J	0.10	0.11	J	0.10	0.11	J	0.10	0.57		0.10	0.1	U	0.10	0.28	J	0.10	0.11	J	0.10	0.12	J	0.10	NSD		
December 2013																													
March 2014																													
Mean			**0.12**			**0.13**			**0.10**			**0.23**			**0.32**			**0.25**			**0.20**			**0.21**			**0.10**		
Standard Deviation			**0.03**			**0.05**			**0.01**			**0.23**			**0.33**			**0.18**			**0.20**			**0.19**			**0.00**		
Mean + 3 Standard Deviations			**0.20**			**0.27**			**0.12**			**0.92**			**1.31**			**0.80**			**0.80**			**0.79**			**0.10**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Sodium (ug/l)	20,000	18,000		800	11,000		800	15,000		800	12,000		800															
June 2012[2]	CAS #7440-23-5		15,600		15	7,170		15	11,200		15	9,980		15															
August 2012															11,400		75	14,600		75	9,800		75	12,600		75	NSD		
February 2013			18,500		15	**83,600**		75	11,600		15	2,770		15	12,600		15	11,200		15	7,290		15	14,100		15	2,070		15
May 2013			18,900		15.0	**33,500**		15.0	10,400		15.0	10,300		15.0	10,300		15.0	9,600		15.0	6,430		15.0	13,600		15.0	2,240		15.0
August 2013			17,500		15.0	12,500		15.0	8,900		15.0	9,350		15.0	8,420		15.0	5,750		15.0	5,200		15.0	12,100		15.0	NSD		
December 2013																													
March 2014																													
October 2014			17,800		16.1	10,400		16.1	7,430		16.1	9,360		16.1	5,980		16.1	5,250		16.1	4,690		16.1	7,400		16.1	NSD		
Mean			**17,660**			**29,434**			**9,906**			**8,352**			**9,740**			**9,280**			**6,682**			**11,960**			**2,155**		
Standard Deviation			**1,278**			**31,997**			**1,727**			**3,147**			**2,604**			**3,898**			**2,020**			**2,669**			**120**		
Mean + 3 Standard Deviations			**21,494**			**125,425**			**15,087**			**17,793**			**17,553**			**20,975**			**12,742**			**19,967**			**2,516**		
May 2012	Thallium (ug/l)	0.5 (GV)	0.03	U	0.03	0.03	U	0.03	0.3	J	0.03	0.03	U	0.03															
June 2012[2]	CAS #7440-28-0		0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03															
August 2012															0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	0.2	U	0.2	NSD		
February 2013			0.03	U	0.03	0.05	J	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	J	0.03	0.03	U	0.03	0.03	U	0.03
May 2013			0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03
August 2013			0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.04	J	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	NSD		
December 2013																													
March 2014																													
Mean			**0.03**			**0.04**			**0.03**			**0.03**			**0.07**			**0.07**			**0.07**			**0.07**			**0.03**		
Standard Deviation			**0.00**			**0.01**			**0.00**			**0.01**			**0.09**			**0.09**			**0.09**			**0.09**			**0.00**		
Mean + 3 Standard Deviations			**0.03**			**0.07**			**0.03**			**0.05**			**0.33**			**0.33**			**0.33**			**0.33**			**0.03**		
May 2012	Vanadium (ug/l)	No Standard	3	J	2	2	J	2	65		2	3	J	2															
June 2012[2]	CAS #7440-62-2		0.1	U	0.1	0.1	U	0.1	0.1	U	0.1	0.1	U	0.1															
August 2012															0.5	U	0.5	0.5	U	0.5	0.5	U	0.5	0.5	U	0.5	NSD		
February 2013			0.1	U	0.1	0.2	J	0.1	0.9	J	0.1	0.1	U	0.1	0.7	J	0.1	0.3	J	0.1	0.8	J	0.1	0.5	J	0.1	0.1	U	0.1
May 2013			0.71	J	0.10	0.52	J	0.10	0.52	J	0.10	0.34	J	0.10	3.25	J	0.10	0.21	J	0.10	1.17	J	0.10	0.51	J	0.10	0.36	J	0.10
August 2013			0.31	J	0.10	0.29	J	0.10	0.21	J	0.10	6.91		0.10	0.33	J	0.10	0.84	J	0.10	0.83	J	0.10	0.39	J	0.10	NSD		
December 2013																													
March 2014																													
Mean			**0.31**			**0.28**			**0.43**			**1.86**			**1.20**			**0.46**			**0.83**			**0.48**			**0.23**		
Standard Deviation			**0.29**			**0.18**			**0.36**			**3.37**			**1.38**			**0.28**			**0.27**			**0.06**			**0.18**		
Mean + 3 Standard Deviations			**1.17**			**0.82**			**1.51**			**11.96**			**5.33**			**1.30**			**1.65**			**0.65**			**0.78**		
May 2012	Zinc (ug/l)	2,000 (GV)	25	J	5	25	J	5	227		5	26	J	5															
June 2012[2]	CAS #7440-66-6		8.3	J	1.2	12.4		1.2	12.7		1.2	10.2		1.2															
August 2012															10	J	6.0	10.8	J	6.0	10.3	J	6.0	13.8	J	6.0	NSD		
February 2013			9.2	J	1.2	8.8	J	1.2	10.8		1.2	9.5	J	1.2	9.8	J	1.2	8.6	J	1.2	8.2	J	1.2	9.6	J	1.2	10.3		1.2
May 2013			18.62		1.20	15.24		1.20	14.39		1.20	16.18		1.20	18.13		1.20	15.1		1.20	16.63		1.20	16.78		1.20	14.82		1.20
August 2013			12.06		1.20	15.74		1.20	11.42		10.0	31.71		1.20	10.89		1.20	11.92		1.20	11.76		1.20	12.34		1.20	NSD		
December 2013																													
March 2014																													
Mean			**12.05**			**13.05**			**12.33**			**16.90**			**12.21**			**11.61**			**11.72**			**13.13**			**12.56**		
Standard Deviation			**4.67**			**3.19**			**1.59**			**10.32**			**3.98**			**2.71**			**3.58**			**2.99**			**3.20**		
Mean + 3 Standard Deviations			**26.05**			**22.61**			**17.09**			**47.86**			**24.14**			**19.73**			**22.47**			**22.11**			**22.15**		
Volatile Organics																													
May 2012	Acetone (ug/l)	50 (GV)	1.0	U	1.0	1.0	U	1.0	8.3		1.0	1.0	U	1.0															
June 2012	CAS #67-64-1																												
August 2012															1.4	J	1.0	13		1.0	3.1	J	1.0	2.2	J	1.0	NSD		
February 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	3	J	1.0	8.6		1.0	1.6	J	1.0	1.0	U	1.0	1.0	U	1.0
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	3.6	J	1.0	1.2	J	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			2.9	J	1.0	2.2	J	1.0	3.3	J	1.0	2.1	J	1.0	5.6		1.0	5.7		1.0	2.6	J	1.0	2.5	J	1.0	NSD		
December 2013																													
March 2014																													
October 2014			1.5	U	1.5	1.6	J	1.5	1.5	U	1.5	1.9	J	1.5	1.5	U	1.5	1.5	U	1.5	1.7	J	1.5	1.5	U	1.5	NSD		
Mean			**1.48**			**1.30**			**3.02**			**1.28**			**2.50**			**6.48**			**2.13**			**1.64**			**1.00**		
Standard Deviation			**0.82**			**0.60**			**3.10**			**0.55**			**1.89**			**4.49**			**0.88**			**0.69**			**0.00**		
Mean + 3 Standard Deviations			**3.95**			**3.10**			**12.32**			**2.93**			**8.18**			**19.96**			**4.76**			**3.70**			**1.00**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	Qualifie	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Benzene (ug/l)	1	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19															
June 2012	CAS #71-43-2																												
August 2012															0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	NSD		
February 2013			0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19
May 2013			0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19
August 2013			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	NSD		
December 2013																													
March 2014																													
October 2014			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	NSD		
Mean			**0.18**			**0.18**			**0.18**			**0.18**			**0.18**			**0.18**			**0.18**			**0.18**			**0.19**		
Standard Deviation			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.02**			**0.00**		
Mean + 3 Standard Deviations			**0.23**			**0.23**			**0.23**			**0.23**			**0.23**			**0.23**			**0.23**			**0.23**			**0.19**		
May 2012	2-Butanone (ug/l)	50 (GV)	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0															
June 2012	CAS #78-93-3																												
August 2012															1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	NSD		
February 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	NSD		
December 2013																													
March 2014																													
October 2014			1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	NSD		
Mean			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.00**		
Standard Deviation			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.00**		
Mean + 3 Standard Deviations			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**1.00**		
May 2012	Carbon disulfide	60 (GV)	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0															
June 2012	(ug/l)																												
August 2012	CAS #75-15-0														1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	NSD		
February 2013			1.1	J	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	NSD		
December 2013																													
March 2014																													
October 2014			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	NSD		
Mean			**1.02**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**		
Standard Deviation			**0.04**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**1.15**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**			**1.00**		
May 2012	Chloroform (ug/l)	7	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70															
June 2012	CAS #67-66-3																												
August 2012															0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
February 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
December 2013																													
March 2014																													
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
May 2012	Methylene	5	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70															
June 2012	Chloride (ug/l)																												
August 2012	Cas #75-09-2														0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
February 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
December 2013																													
March 2014																													
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-26			MW2012-27			MW2012-28			MW2012-29			MW2012-34			MW2012-35A			MW2012-36			MW2012-37			MW2012-38		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**Qualifie**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Toluene	5	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70															
June 2012	(ug/l)																												
August 2012	CAS #108-88-3														0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
February 2012			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
December 2013																													
March 2014																													
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	NSD		
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
May 2012	Trichloroethene(4)	5	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17															
June 2012	(ug/l)																												
August 2012	CAS #79-01-6														0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	NSD		
February 2012			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
May 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
August 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	NSD		
December 2013																													
March 2014																													
October 2014			1.4		0.18	2.3		0.18	1.4		0.18	3		0.18	3.3		0.18	**6.3**		0.18	1.3		0.18	1.4		0.18	NSD		
Mean			**0.42**			**0.17**			**0.42**			**0.74**			**0.80**			**1.40**			**0.40**			**0.42**			**0.17**		
Standard Deviation			**0.55**			**0.00**			**0.55**			**1.27**			**1.40**			**2.74**			**0.51**			**0.55**			**0.00**		
Mean + 3 Standard Deviations			**2.07**			**0.17**			**2.07**			**4.53**			**5.00**			**9.62**			**1.91**			**2.07**			**0.17**		

Notes:

(1) NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998, and Addenda dated April 2000 and June 2004.

(2) June 2012 groundwater samples were collected for "filtered" metals analysis only from Monitoring Wells MW2012-26 to MW2012-29 due to matrix interference from samples analyzed from the May 2012 sampling event. The matrix interference is believed to have been caused by high silt content in groundwater from the recently installed wells. Due to matrix interference, the May 2012 analytical results for metals and color, and the field measurement for turbidity, will not be included in the calculation of the mean and standard deviation.

(3) Non-detect analytical results are given a value of "0" if there is no associated laboratory MDL for the analyzed parameter.

(4) Trichloroethene was detected in groundwater from monitoring wells sampled in March 2014 only. The detection of Trichloroethene is believed to be an anomally, as it was not detected in the laboratory's internal QA/QC samples and trip blank sample. Analytical results from a sample collected by passing tap water through the same sampling equipment used during the March 2014 groundwater sampling did not show the presence of Trichloroethene.

This table summarizes detections only for VOC parameters and does not represent all VOC parameters that were analyzed.

NSD denotes that the monitoring well was dry at time of sampling.

GV denotes a Guidance Value.

NA denotes Not Applicable.

U indicates that the parameter was analyzed for but not detected. The analytical result is reported as the MDL.

J indicates an estimated value. The analytical result lies between the Laboratory's Method Detection Limit (MDL) and Reporting Limit (RL).

Parameter concentrations in bold have exceeded their respective groundwater standard and/or guidance value

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	PH (Standard Units)	6.5 - 8.5																											
June 2012	(field measured)																												
August 2012			7.89																										
February 2013			8.31																										
May 2013			7.38			7.71			7.96			8.12			8.06			8.32			8.08			8.11			7.91		
August 2013			8.15			8.14			8.49			**8.61**			8.35			8.38			8.35			8.18			8.2		
December 2013						7.76			8.18			8.4			8.13			8.41			8.11			8.04			7.94		
March 2014						**10.66**			8.35			**8.63**			**9.04**			8.37			7.95			7.82			7.68		
October 2014			7.6			**9.43**			7.96			7.98			**8.83**			8.26			7.88			7.78			7.62		
Mean			**7.87**			**8.74**			**8.19**			**8.35**			**8.48**			**8.35**			**8.07**			**7.99**			**7.87**		
Standard Deviation			**0.38**			**1.28**			**0.24**			**0.29**			**0.43**			**0.06**			**0.18**			**0.18**			**0.23**		
Mean + 3 Standard Deviations			**9.01**			**12.58**			**8.89**			**9.22**			**9.78**			**8.52**			**8.62**			**8.52**			**8.56**		
May 2012	Turbidity (NTU)	5 NTU																											
June 2012[2]	(field measured)																												
August 2012			**13**																										
February 2013			1.66																										
May 2013			1.83			4.18			**6.04**			**39.6**			**5.79**			**17.6**			**18.3**			**5.92**			2.16		
August 2013			**65**			**10.49**			**24.2**			**7.3**			**18.5**			**28**			**7.02**			**13.3**			**11.1**		
December 2013						**9.59**			**8.3**			**15.1**			**9.7**			NA			**10.35**			NA			NA		
March 2014						**32.2**			**5.31**			**23.4**			**13.9**			**22.8**			**7.19**			4.63			**8.38**		
October 2014			**11.3**			**7.72**			3.4			**28.7**			**11.32**			**13.8**			**6.04**			**9.48**			3.84		
Mean			**18.56**			**12.84**			**9.45**			**22.82**			**11.84**			**20.55**			**9.78**			**8.33**			**6.37**		
Standard Deviation			**26.48**			**11.09**			**8.43**			**12.42**			**4.74**			**6.19**			**5.03**			**3.90**			**4.10**		
Mean + 3 Standard Deviations			**98.01**			**46.11**			**34.74**			**60.08**			**26.08**			**39.11**			**24.87**			**20.02**			**18.68**		
May 2012	Specific	No Standard																											
June 2012	Conductivity (uS)																												
August 2012	(field measured)		340																										
February 2013			NA																										
May 2013			312			575			407			358			387			413			411			497			535		
August 2013			362			547			392			352			372			350			391			468			510		
December 2013						444			334			233			322			304			333			397			429		
March 2014						493			420			312			319			372			439			531			575		
October 2014			323			443			387			341			327			315			391			486			533		
Mean			**334**			**500**			**388**			**319**			**345**			**351**			**393**			**476**			**516**		
Standard Deviation			**22**			**60**			**33**			**51**			**32**			**44**			**39**			**50**			**54**		
Mean + 3 Standard Deviations			**400**			**680**			**487**			**473**			**441**			**483**			**510**			**625**			**679**		
May 2012	Color (CPU)	15 Apha																											
June 2012[2]																													
August 2012			**38**		5.0																								
February 2013			14		5.0																								
May 2013			13		5.0	6.0		5.0	6.0		5.0	8.0		5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	6.0		5.0
August 2013			**220**		50	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	7.0		5.0
December 2013						5.0		5.0	14		5.0	5.0	U	5.0	9.0		5.0	12		5.0	5.0		5.0	6.0		5.0	8.0		5.0
March 2014						5.0		5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	5.0	U	5.0	6.0		5.0	5.0	U	5.0	15		5.0
Mean			**71.25**			**5.25**			**7.50**			**5.75**			**6.00**			**6.75**			**5.25**			**5.25**			**9.00**		
Standard Deviation			**99.84**			**0.50**			**4.36**			**1.50**			**2.00**			**3.50**			**0.50**			**0.50**			**4.08**		
Mean + 3 Standard Deviations			**370.76**			**6.75**			**20.58**			**10.25**			**12.00**			**17.25**			**6.75**			**6.75**			**21.25**		
May 2012	Total Dissolved	500																											
June 2012	Solids (mg/l)																												
August 2012	CAS #C-010		150		4.4																								
February 2013			140		4.4																								
May 2013			180		4.4	340		4.4	260		4.4	230		4.4	240		4.4	230		4.4	230		4.4	250		4.4	300		4.4
August 2013			230		4.4	350		4.4	240		4.4	230		4.4	230		4.4	210		4.4	250		4.4	280		4.4	300		4.4
December 2013						340		3.6	220		3.6	210		3.6	200		3.6	200		3.6	220		3.6	280		3.6	320		3.6
March 2014						210		3.6	250		3.6	180		3.6	180		3.6	220		3.6	250		3.6	300		3.6	310		3.6
October 2014			200		3.6	170		3.6	210		3.6	200		3.6	210		3.6	250		3.6	240		3.6	300		3.6	340		3.6
Mean			**180**			**282**			**236**			**210**			**212**			**222**			**238**			**282**			**314**		
Standard Deviation			**37**			**85**			**21**			**21**			**24**			**19**			**13**			**20**			**17**		
Mean + 3 Standard Deviations			**290**			**538**			**298**			**274**			**284**			**280**			**277**			**343**			**364**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Chemical Oxygen	No Standard																											
June 2012	Demand (mg/l)																												
August 2012	CAS #C-004		15	J	7.0																								
February 2013			24		7.0																								
May 2013			18		3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	12		3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5
August 2013			9.8	J	3.5	3.5	U	3.5	9.8	J	3.5	3.5	U	3.5	3.5	U	3.5	21		3.5	3.5	U	3.5	18		3.5	3.5	U	3.5
December 2013						3.5	U	3.5	3.5	U	3.5	6.8	J	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5
March 2014						9.2	J	3.5	3.5	U	3.5	12		3.5	3.5	U	3.5	9.2		3.5	3.5	U	3.5	4.4	J	3.5	3.5	U	3.5
October 2014			7.3	J	3.5	9.5	J	3.5	3.5	U	3.5	7.3	J	3.5	7.3	J	3.5	12		3.5	3.5	U	3.5	3.5	U	3.5	3.5	U	3.5
Mean			**14.82**			**5.84**			**4.76**			**6.62**			**4.26**			**11.54**			**3.50**			**6.58**			**3.50**		
Standard Deviation			**6.64**			**3.21**			**2.82**			**3.50**			**1.70**			**6.33**			**0.00**			**6.40**			**0.00**		
Mean + 3 Standard Deviations			**34.73**			**15.46**			**13.21**			**17.11**			**9.36**			**30.52**			**3.50**			**25.77**			**3.50**		
May 2012	Biochemical Oxygen	No Standard																											
June 2012	Demand (mg/l)[3]																												
August 2012	CAS #C-003		0	ND	NA																								
February 2013			0	ND	NA																								
May 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	2.5		NA	0	ND	NA	0	ND	NA	0	ND	NA
August 2013			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	12		NA	0	ND	NA	0	ND	NA	0	ND	NA
December 2013						0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	2.5		NA	0	ND	NA
March 2014						0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA
October 2014			0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	0	ND	NA	2.5		NA	2.2		NA	2.1		NA
Mean			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**2.90**			**0.50**			**0.94**			**0.42**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**5.20**			**1.12**			**1.29**			**0.94**		
Mean + 3 Standard Deviations			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**18.50**			**3.85**			**4.81**			**3.24**		
May 2012	Total Organic	No Standard																											
June 2012	Carbon (mg/l)																												
August 2012	CAS #C-012		0.99		0.03																								
February 2013			1.29		0.052																								
May 2013			1.3		0.052	1.12		0.052	1.06		0.052	1.12		0.052	1.03		0.052	2.52		0.052	1.13		0.052	1.17		0.052	1.1		0.052
August 2013			1.43		0.052	1.33		0.052	1.32		0.052	1.3		0.052	1.18		0.052	6.52		0.052	1.12		0.052	1.48		0.052	1.28		0.052
December 2013						1.42		0.236	0.6	J	0.236	1.46		0.236	1.35		0.236	1.55		0.236	1.42		0.236	1.51		0.236	1.45		0.236
March 2014						2.32		0.236	0.63	J	0.236	0.65	J	0.236	1.29		0.236	1.290		0.236	1.030		0.236	1.250		0.236	1.21		0.236
October 2014			0.54		0.118	0.49	J	0.118	0.42	J	0.118	0.49	J	0.118	0.46	J	0.118	0.440	J	0.118	0.350	J	0.118	0.460	J	0.118	0.45	J	0.118
Mean			**1.11**			**1.34**			**0.81**			**1.00**			**1.06**			**2.46**			**1.01**			**1.17**			**1.10**		
Standard Deviation			**0.36**			**0.66**			**0.37**			**0.42**			**0.36**			**2.39**			**0.40**			**0.42**			**0.38**		
Mean + 3 Standard Deviations			**2.18**			**3.31**			**1.92**			**2.26**			**2.14**			**9.62**			**2.20**			**2.45**			**2.25**		
May 2012	Sulfate (mg/l)	250																											
June 2012	CAS #18785-72-3																												
August 2012			22	J	8.1																								
February 2013			15.7		0.229																								
May 2013			0.229	U	0.229	61.5		0.229	30.2		0.229	28.4		0.229	19.7		0.229	37.9		0.229	18.8		0.229	38.4		0.229	48.3		0.229
August 2013			19.9		0.229	62.2		0.229	32.1		0.229	29.4		0.229	20.4		0.229	28.1		0.229	20.6		0.229	40.3		0.229	45.7		0.229
December 2013						60.8		0.229	30.6		0.229	29.9		0.229	23.9		0.229	33.4		0.229	21.2		0.229	40.4		0.229	45.1		0.229
March 2014						55.4		0.229	36		1.14	31.3		1.14	22.3		0.229	29.000		0.229	24.100		0.229	46.000		0.229	46		0.229
October 2014			20.2		0.130	57.6		0.260	29.6		0.130	30		0.130	20.5		0.130	40.100		0.260	21.000		0.130	45.600		0.260	48.2		0.260
Mean			**15.61**			**59.5**			**31.7**			**29.8**			**21.4**			**33.7**			**21.1**			**42.1**			**46.7**		
Standard Deviation			**8.90**			**2.9**			**2.6**			**1.1**			**1.7**			**5.3**			**1.9**			**3.4**			**1.5**		
Mean + 3 Standard Deviations			**42.31**			**68.2**			**39.4**			**33.0**			**26.5**			**49.6**			**26.9**			**52.5**			**51.1**		
May 2012	Alkalinity (mg/l)	No Standard																											
June 2012	CAS #10001																												
August 2012			160		NA																								
February 2013			143		NA																								
May 2013			151		NA	263		NA	185		NA	159		NA	189		NA	145		NA	201		NA	223		NA	246		NA
August 2013			160		NA	258		NA	183		NA	160		NA	186		NA	137		NA	198		NA	200		NA	249		NA
December 2013						256		NA	172		NA	158		NA	179		NA	147		NA	193		NA	212		NA	242		NA
March 2014						156		NA	176		NA	125		NA	127		NA	148		NA	194		NA	219		NA	244		NA
October 2014			161		NA	188		NA	181		NA	158		NA	157		NA	176		NA	199		NA	225		NA	248		NA
Mean			**155**			**224.20**			**179.40**			**152.00**			**167.60**			**150.60**			**197.00**			**215.80**			**245.80**		
Standard Deviation			**7.84**			**49.04**			**5.32**			**15.12**			**25.92**			**14.84**			**3.39**			**10.13**			**2.86**		
Mean + 3 Standard Deviations			**178.53**			**371.33**			**195.36**			**197.35**			**245.36**			**195.13**			**207.17**			**246.20**			**254.39**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Salinity (SU)	No Standard																											
June 2012	CAS #10047																												
August 2012			2.0	U	2.0																								
February 2013			2.0	U	2.0																								
May 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
August 2013			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
December 2013						2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
March 2014						2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
October 2014			2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0	2.0	U	2.0
Mean			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**			**2.00**		
May 2012	Bromide (mg/l)	2 (GV)																											
June 2012	CAS #7726-95-6																												
August 2012			0.68	U	0.68																								
February 2013			0.01	U	0.010																								
May 2013			0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.03	J	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010
August 2013			0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.023	J	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010
December 2013						0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010
March 2014						0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010	0.01	U	0.010
October 2014			0.016	U	0.016	0.032	U	0.032	0.016	U	0.016	0.016	U	0.016	0.016	U	0.016	0.032	U	0.032	0.016	U	0.016	0.032	U	0.032	0.032	U	0.032
Mean			**0.15**			**0.01**			**0.01**			**0.01**			**0.01**			**0.02**			**0.01**			**0.01**			**0.01**		
Standard Deviation			**0.30**			**0.01**			**0.00**			**0.00**			**0.00**			**0.01**			**0.00**			**0.01**			**0.01**		
Mean + 3 Standard Deviations			**1.04**			**0.04**			**0.02**			**0.02**			**0.02**			**0.05**			**0.02**			**0.04**			**0.04**		
May 2012	Chloride (mg/l)	250																											
June 2012	CAS #16887-00-6																												
August 2012			10	J	4.4																								
February 2013			1.2		0.168																								
May 2013			0.168	U	0.168	2.07		0.168	1.39		0.168	1.57		0.168	1.03		0.168	15.6		0.168	0.806		0.168	4.5		0.168	2.9		0.168
August 2013			1.35		0.168	2.44		0.168	1.73		0.168	1.62		0.168	1.16		0.168	12.7		0.168	0.926		0.168	5.15		0.168	2.92		0.168
December 2013						2.75		0.168	1.82		0.168	2.88		0.168	1.18		0.168	5.69		0.168	0.901		0.168	4.55		0.168	2.77		0.168
March 2014						2.56		0.168	1.62		0.168	1.55		0.168	1.1		0.168	3.5		0.168	0.916		0.168	4.19		0.168	2.51		0.168
October 2014			1.05		0.097	2.6		0.195	1.39		0.097	1.3		0.097	0.822		0.097	0.906	J	0.195	0.659		0.097	4.15		0.195	2.59		0.195
Mean			**2.75**			**2.48**			**1.59**			**1.78**			**1.06**			**7.68**			**0.84**			**4.51**			**2.74**		
Standard Deviation			**4.08**			**0.26**			**0.20**			**0.63**			**0.14**			**6.23**			**0.11**			**0.40**			**0.18**		
Mean + 3 Standard Deviations			**14.98**			**3.25**			**2.18**			**3.66**			**1.49**			**26.37**			**1.18**			**5.71**			**3.29**		
May 2012	Total Hardness	No Standard																											
June 2012	(mg/l)																												
August 2012			180		NA																								
February 2013			170		NA																								
May 2013			160		NA	280		NA	190		NA	180		NA	160		NA	150		NA	150		NA	220		NA	260		NA
August 2013			160		NA	290		NA	200		NA	200		NA	140		NA	140		NA	170		NA	230		NA	260		NA
December 2013						290		NA	190		NA	190		NA	180		NA	180		NA	160		NA	270		NA	310		NA
March 2014						180		NA	170		NA	140		NA	110		NA	140		NA	160		NA	220		NA	240		NA
October 2014			170		NA	220		NA	180		NA	170		NA	130		NA	180		NA	160		NA	220		NA	250		NA
Mean			**168**			**252**			**186**			**176**			**144**			**158**			**160**			**232**			**264**		
Standard Deviation			**8**			**50**			**11**			**23**			**27**			**20**			**7**			**22**			**27**		
Mean + 3 Standard Deviations			**193**			**401**			**220**			**245**			**225**			**219**			**181**			**297**			**345**		
May 2012	Total Kjeldahl	No Standard																											
June 2012	Nitrogen (mg/l)																												
August 2012	CAS #7727-37-9		0.24	J	0.06																								
February 2013			0.12	J	0.06																								
May 2013			0.19	J	0.060	0.52		0.060	0.27	J	0.060	0.19	J	0.060	0.30		0.060	0.68		0.060	0.49		0.060	0.46		0.060	0.26	J	0.060
August 2013			0.60		0.060	0.43		0.060	0.40		0.060	0.18	J	0.060	0.36		0.060	0.59		0.060	0.47		0.060	0.39		0.060	0.33		0.060
December 2013						0.37		0.093	0.19	J	0.093	0.14	J	0.093	0.32		0.093	0.26	J	0.093	0.40		0.093	0.25	J	0.093	0.22	J	0.093
March 2014						0.51		0.093	0.44		0.093	0.27	J	0.093	0.49		0.093	0.250	J	0.093	0.400		0.093	0.230	J	0.093	0.27	J	0.093
October 2014			0.19	J	0.093	0.41		0.093	0.26	J	0.093	0.2	J	0.093	0.38		0.093	0.380		0.093	0.350		0.093	0.250	J	0.093	0.25	J	0.093
Mean			**0.27**			**0.45**			**0.31**			**0.20**			**0.37**			**0.43**			**0.42**			**0.32**			**0.27**		
Standard Deviation			**0.19**			**0.06**			**0.10**			**0.05**			**0.07**			**0.19**			**0.06**			**0.10**			**0.04**		
Mean + 3 Standard Deviations			**0.84**			**0.64**			**0.62**			**0.34**			**0.59**			**1.02**			**0.59**			**0.62**			**0.39**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Nitrogen, Ammonia	No Standard																											
June 2012	(mg/l)																												
August 2012	CAS #7664-41-7		0.073	J	0.017																								
February 2013			0.032	U	0.032																								
May 2013			0.031	U	0.031	0.305		0.031	0.143		0.031	0.078		0.031	0.231		0.031	0.330		0.031	0.328		0.031	0.249		0.031	0.144		**0.031**
August 2013			0.315	U	0.315	0.310		0.031	0.166		0.031	0.047	J	0.031	0.175		0.031	0.208		0.031	0.278		0.031	0.233		0.031	0.156		0.031
December 2013						0.325		0.021	0.117		0.021	0.09		0.021	0.246		0.021	0.123		0.021	0.308		0.021	0.196		0.021	0.171		0.021
March 2014						0.36		0.021	0.148		0.021	0.106		0.021	0.385		0.021	0.065	J	0.021	0.230		0.021	0.113		0.021	0.151		0.021
October 2014			0.021	U	0.021	0.28		0.021	0.115		0.021	0.042	J	0.021	0.222		0.021	0.142		0.021	0.225		0.021	0.117		0.021	0.185		0.021
Mean			**0.094**			**0.316**			**0.138**			**0.073**			**0.252**			**0.174**			**0.274**			**0.182**			**0.161**		
Standard Deviation			**0.125**			**0.029**			**0.022**			**0.028**			**0.079**			**0.101**			**0.046**			**0.064**			**0.017**		
Mean + 3 Standard Deviations			**0.469**			**0.404**			**0.203**			**0.155**			**0.489**			**0.477**			**0.411**			**0.373**			**0.211**		
May 2012	Nitrogen, Nitrate	10																											
June 2012	(mg/l)																												
August 2012	CAS #14797-55-8		0.11		0.02																								
February 2013			0.17		0.02																								
May 2013			0.16		0.015	0.015	U	0.015	0.015	U	0.015	0.18		0.015	0.082	J	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.072	J	0.015
August 2013			0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015	0.015	U	0.015
December 2013						0.015	U	0.015	0.039	J	0.015	0.015	U	0.015	0.022	J	0.015	0.044	J	0.015	0.015	U	0.015	0.019	J	0.015	0.015	U	0.015
March 2014						0.066	J	0.021	0.053	J	0.021	0.041	J	0.021	0.035	J	0.021	0.068	J	0.021	0.042	J	0.021	0.099		0.021	0.058	J	0.021
October 2014			0.14		0.021	0.021	U	0.021	0.021	U	0.021	0.038	J	0.021	0.037	J	0.021	0.021	U	0.021	0.021	U	0.021	0.021	U	0.021	0.021	U	0.021
Mean			**0.119**			**0.026**			**0.029**			**0.058**			**0.038**			**0.033**			**0.022**			**0.034**			**0.036**		
Standard Deviation			**0.062**			**0.022**			**0.017**			**0.069**			**0.026**			**0.023**			**0.012**			**0.037**			**0.027**		
Mean + 3 Standard Deviations			**0.306**			**0.093**			**0.079**			**0.266**			**0.117**			**0.102**			**0.057**			**0.143**			**0.117**		
May 2012	Total Phenols (mg/l)	0.001																											
June 2012	CAS #C-020																												
August 2012			**0.07**		0.01																								
February 2013			0.01	U	0.01																								
May 2013			**0.05**		0.009	**0.02**	J	0.009	**0.02**	J	0.009	**0.02**	J	0.009	**0.03**		0.009	**0.03**		0.009	**0.01**	J	0.009	**0.01**	J	0.009	**0.03**		0.009
August 2013			**0.02**	J	0.009	**0.03**		0.009	**0.01**	J	0.009	**0.02**	J	0.009	**0.03**		0.009	**0.05**		0.009	**0.03**		0.009	**0.02**	J	0.009	**0.04**		0.009
December 2013						**0.03**		0.012	**0.02**	J	0.012	0.012	U	0.012	**0.02**	J	0.012	**0.02**	J	0.012	**0.02**	J	0.012	0.012	U	0.012	**0.02**	J	0.012
March 2014						0.01	U	0.01	0.01	U	0.01	0.01	U	0.01	0.01	U	0.01	**0.01**	J	0.01	0.01	U	0.01	0.01	U	0.01	0.01	U	0.01
October 2014			0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009	0.009	U	0.009
Mean			**0.032**			**0.020**			**0.014**			**0.014**			**0.020**			**0.024**			**0.016**			**0.012**			**0.022**		
Standard Deviation			**0.027**			**0.010**			**0.006**			**0.005**			**0.010**			**0.017**			**0.009**			**0.004**			**0.013**		
Mean + 3 Standard Deviations			**0.113**			**0.051**			**0.031**			**0.030**			**0.051**			**0.075**			**0.043**			**0.026**			**0.062**		
May 2012	Total Cyanide (ug/l)	200																											
June 2012	CAS #57-12-5																												
August 2012			2	J	2																								
February 2013			1	U	1																								
May 2013			1	U	1	1	U	1	1	U	1	2	J	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1
August 2013			1	U	1	1	U	1	1	J	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	U	1
December 2013						1	J	1	1	J	1	2	J	1	1	J	1	1	U	1	1	U	1	1	U	1	5		1
March 2014						1	U	1	2	J	1	8		1	2	J	1	2	J	1	1	J	1	8		1	1	U	1
Mean			**1.25**			**1.00**			**1.25**			**3.25**			**1.25**			**1.25**			**1.00**			**2.75**			**2.00**		
Standard Deviation			**0.50**			**0.00**			**0.50**			**3.20**			**0.50**			**0.50**			**0.00**			**3.50**			**2.00**		
Mean + 3 Standard Deviations			**2.75**			**1.00**			**2.75**			**12.85**			**2.75**			**2.75**			**1.00**			**13.25**			**8.00**		
	Metals																												
May 2012	Aluminum (ug/l)	2,000																											
June 2012[2]	CAS #7429-90-5																												
August 2012			100		10																								
February 2013			473		2																								
May 2013			91.4		2.0	15.7		2.0	67.7		2.0	312		2.0	101		2.0	422		2.0	287		2.0	25.2		2.0	11.1		2.0
August 2013			**2,760**		40.0	52.1		2.0	94.5		2.0	584		40.0	62.2		2.0	345		2.0	74.4		2.0	72.9		2.0	20.3		2.0
December 2013						229		2.0	208		2.0	779		2.0	223		2.0	63.5		2.0	299		2.0	81.2		2.0	66.4		2.0
March 2014						18.3		2.0	38.6		2.0	803		4.0	90.9		2.0	446		20.0	191		2.0	57.8		2.0	42.3		2.0
Mean			**856.1**			**78.8**			**102.2**			**619.5**			**119.3**			**319.1**			**212.9**			**59.3**			**35.0**		
Standard Deviation			**1,281.7**			**101.5**			**74.1**			**227.3**			**71.1**			**175.8**			**104.2**			**24.7**			**24.7**		
Mean + 3 Standard Deviations			**4,701.1**			**383.3**			**324.6**			**1,301.3**			**332.5**			**846.5**			**525.4**			**133.4**			**109.0**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Antimony (ug/l)	3																											
June 2012[2]	CAS #7440-36-0																												
August 2012			0.5	U	0.5																								
February 2013			1.98	J	0.10																								
May 2013			0.17	J	0.10	0.5		0.10	0.2	J	0.10	0.19	J	0.10	0.17	J	0.10	0.57		0.10	0.23	J	0.10	0.97		0.10	0.26	J	0.10
August 2013			0.16	J	0.10	0.1	U	0.10	0.1	U	0.10	0.1	J	0.10	0.69	J	0.10	0.84	J	0.10	0.19	J	0.10	0.76	J	0.10	0.1	U	0.10
December 2013						**7.21**		0.10	1.25		0.10	0.89	J	0.10	0.95	J	0.10	1.37		0.10	1.7		0.10	1.87		0.10	2.45		0.10
March 2014						0.62	J	0.10	0.27	J	0.10	0.83	J	0.10	0.1	U	0.10	0.23	J	0.10	0.11	J	0.10	0.28	J	0.10	0.18	J	0.10
Mean			**0.70**			**2.11**			**0.46**			**0.50**			**0.48**			**0.93**			**0.56**			**0.97**			**0.75**		
Standard Deviation			**0.87**			**3.41**			**0.53**			**0.42**			**0.41**			**0.41**			**0.76**			**0.67**			**1.14**		
Mean + 3 Standard Deviations			**3.30**			**12.33**			**2.06**			**1.75**			**1.71**			**2.15**			**2.85**			**2.97**			**4.16**		
May 2012	Arsenic (ug/l)	25																											
June 2012[2]	CAS #7440-38-2																												
August 2012			1.0	U	1.0																								
February 2013			10.4		0.2																								
May 2013			0.20	U	0.20	0.20	U	0.20	1.60		0.20	0.64		0.20	1.04		0.20	4.1		0.50	1.48		0.20	5.55		0.20	16.28		0.20
August 2013			3.04		0.20	0.23	J	0.20	2.08		0.20	0.77		0.20	0.86		0.20	4.25		0.20	2.14		0.20	5.07		0.20	16.66		0.20
December 2013						0.4	J	0.10	2.57		0.10	1.26		0.10	1.39		0.10	8.66		0.10	2.3		0.10	5.73		0.10	**27.6**		0.10
March 2014						0.45	J	0.20	1.97		0.10	1.23		0.10	1.47		0.20	4.99		0.20	3.98		0.20	4.55		0.20	14.65		0.20
Mean			**4.55**			**0.36**			**2.21**			**0.98**			**1.19**			**5.50**			**2.48**			**5.23**			**18.80**		
Standard Deviation			**5.26**			**0.12**			**0.32**			**0.32**			**0.29**			**2.14**			**1.06**			**0.53**			**5.93**		
Mean + 3 Standard Deviations			**20.34**			**0.71**			**3.16**			**1.92**			**2.06**			**11.93**			**5.67**			**6.81**			**36.60**		
May 2012	Barium (ug/l)	1,000																											
June 2012[2]	CAS #7440-39-3																												
August 2012			11.3		0.5																								
February 2013			129.3		0.1																								
May 2013			8.61		0.10	34.34		0.10	81.64		0.10	60.59		0.10	101.9		0.10	30.41		0.10	95.66		0.10	61.13		0.10	40.76		0.10
August 2013			43.22		0.10	33.83		0.10	86.85		0.10	83.15		0.10	115.5		0.10	30.09		0.10	117.3		0.10	65.96		0.10	39.33		0.10
December 2013						37.29		0.10	95.48		0.10	90.99		0.10	142.3		0.10	36.72		0.10	122.1		0.10	66.41		0.10	46.73		0.10
March 2014						26.74		0.10	81.35		0.10	84.72		0.10	107.5		0.10	30.34		0.10	125.6		0.10	59.74		0.10	44.97		0.10
Mean			**48.11**			**33.05**			**86.33**			**79.86**			**116.80**			**31.89**			**115.17**			**63.31**			**42.95**		
Standard Deviation			**56.36**			**4.47**			**6.60**			**13.29**			**17.89**			**3.22**			**13.44**			**3.37**			**3.48**		
Mean + 3 Standard Deviations			**217.20**			**46.47**			**106.14**			**119.72**			**170.48**			**41.56**			**155.49**			**73.43**			**53.38**		
May 2012	Beryllium (ug/l)	3 (GV)																											
June 2012[2]	CAS #7440-41-7																												
August 2012			0.5	U	0.5																								
February 2013			0.1	U	0.1																								
May 2013			0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10
August 2013			0.18	J	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10
December 2013						0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10
March 2014						0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10	0.10	U	0.10
Mean			**0.22**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**		
Standard Deviation			**0.19**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.79**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**			**0.10**		
May 2012	Boron (ug/l)	1,000																											
June 2012[2]	CAS #7440-42-8																												
August 2012			17	J	8																								
February 2013			106		8																								
May 2013			14	J	8.0	164		8.0	76		8.0	26.4	J	8.0	210		8.0	40.6		8.0	236		8.0	60.7		8.0	91.1		8.0
August 2013			16.5	J	7.0	164		7.0	71.3		7.0	29.2	J	7.0	181		7.0	47.3		7.0	246		7.0	73.5		7.0	103		7.0
December 2013						174		7.0	81		7.0	26	J	7.0	190		7.0	35		7.0	257		7.0	74		7.0	110		7.0
March 2014						126		7.0	64		7.0	24.7	J	7.0	180		7.0	30.9		7.0	197		7.0	54.1		7.0	102		7.0
Mean			**38.38**			**157.00**			**73.08**			**26.58**			**190.25**			**38.45**			**234.00**			**65.58**			**101.53**		
Standard Deviation			**45.10**			**21.20**			**7.23**			**1.89**			**13.91**			**7.11**			**26.12**			**9.82**			**7.81**		
Mean + 3 Standard Deviations			**173.68**			**220.59**			**94.77**			**32.26**			**231.99**			**59.79**			**312.35**			**95.03**			**124.95**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Cadmium (ug/l)	5																											
June 2012[2]	CAS #7440-43-9																												
August 2012			0.3	U	0.3																								
February 2013			0.1	U	0.1																								
May 2013			0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.16	J	0.05	0.05	U	0.05	0.05	U	0.05	0.47	J	0.05
August 2013			0.22		0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.2		0.05	0.05	J	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05
December 2013						0.16	J	0.05	0.44		0.05	0.05	U	0.05	0.17	J	0.05	0.05	U	0.05	0.05	U	0.05	0.12	J	0.05	0.05	U	0.05
March 2014						0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.06	J	0.05	0.05	U	0.05	0.08	J	0.05	0.05	U	0.05
October 2014			0.1	J	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05	0.05	U	0.05
Mean			**0.17**			**0.07**			**0.13**			**0.05**			**0.10**			**0.07**			**0.05**			**0.07**			**0.13**		
Standard Deviation			**0.11**			**0.05**			**0.17**			**0.00**			**0.07**			**0.05**			**0.00**			**0.03**			**0.19**		
Mean + 3 Standard Deviations			**0.51**			**0.22**			**0.65**			**0.05**			**0.33**			**0.22**			**0.05**			**0.16**			**0.70**		
May 2012	Calcium (ug/l)	No Standard																											
June 2012[2]	CAS #7440-70-2																												
August 2012			52,700		160																								
February 2013			52,300		160																								
May 2013			47,400		32.0	75,000		20	51,700		320	50,000		320	44,100		32.0	41,400		32.0	41,100		32.0	59,000		20	70,000		20
August 2013			47,000		30	79,000		30	56,000		30	56,000		30	40,000		30	37,000		30	46,000		30	62,000		30	70,000		30
December 2013						81,000		30	52,000		30	53,000		30	53,000		30	49,000		30	46,000		30	73,000		30	86,000		30
March 2014						35,000		30	48,000		30	36,000		30	24,000		30	39,000		30	42,000		30	57,000		30	64,000		30
October 2014			48,000		30	28,000		30	49,000		30	44,000		30	30,000		30	49,000		30	44,000		30	58,000		30	66,000		30
Mean			**49,480**			**59,600**			**51,340**			**47,800**			**38,220**			**43,080**			**43,820**			**61,800**			**71,200**		
Standard Deviation			**2,783**			**25,861**			**3,119**			**7,950**			**11,467**			**5,624**			**2,250**			**6,535**			**8,672**		
Mean + 3 Standard Deviations			**57,830**			**137,184**			**60,697**			**71,650**			**72,621**			**59,953**			**50,570**			**81,404**			**97,215**		
May 2012	Chromium (ug/l)	50																											
June 2012[2]	CAS #7440-47-3																												
August 2012			1.0	U	1.0																								
February 2013			0.8	J	0.2																								
May 2013			0.20	U	0.20	0.20	U	0.20	0.20	U	0.20	0.20	U	0.20	0.20	U	0.20	0.20	U	0.20	0.20	U	0.20	0.20	U	0.20	0.20	U	0.20
August 2013			3.43		0.20	0.48	J	0.20	0.84	J	0.20	1.32		0.20	0.54	J	0.20	0.93	J	0.20	0.61	J	0.20	0.62	J	0.20	0.5	J	0.20
December 2013						1.25		0.20	1.13		0.20	2.25		0.20	0.95	J	0.20	0.81	J	0.20	1.14		0.20	0.76	J	0.20	0.72	J	0.20
March 2014						0.66	J	0.20	0.33	J	0.20	1.84		0.20	1.14		0.20	1.5		0.20	0.93	J	0.20	0.67	J	0.20	0.64	J	0.20
Mean			**1.36**			**0.65**			**0.63**			**1.40**			**0.71**			**0.86**			**0.72**			**0.56**			**0.52**		
Standard Deviation			**1.42**			**0.44**			**0.44**			**0.89**			**0.42**			**0.53**			**0.41**			**0.25**			**0.23**		
Mean + 3 Standard Deviations			**5.63**			**1.98**			**1.93**			**4.06**			**1.97**			**2.46**			**1.95**			**1.31**			**1.20**		
May 2012	Chromium,	50																											
June 2012	Hexavalent (ug/l)																												
August 2012	CAS #18540-29-9		1	U	1																								
February 2013			1	U	1																								
May 2013			1	J	1	1	U	1	1	U	1	1	U	1	1	J	1	1	U	1	1	U	1	1	U	1	1	U	1
August 2013			1	U	1	1	U	1	1	U	1	1	U	1	1	U	1	1	J	1	1	U	1	2	J	1	1	J	1
December 2013						3	U	3	3	U	3	3	U	3	4	J	3	3	U	3	3	U	3	3	U	3	3	U	3
March 2014						3	U	3	3	U	3	13		3	4	J	3	3	U	3	4	J	3	4	J	3	3	U	3
Mean			**1.00**			**2.00**			**2.00**			**4.50**			**2.50**			**2.00**			**2.25**			**2.50**			**2.00**		
Standard Deviation			**0.00**			**1.15**			**1.15**			**5.74**			**1.73**			**1.15**			**1.50**			**1.29**			**1.15**		
Mean + 3 Standard Deviations			**1.00**			**5.46**			**5.46**			**21.73**			**7.70**			**5.46**			**6.75**			**6.37**			**5.46**		
May 2012	Cobalt (ug/l)	No Standard																											
June 2012[2]	CAS #7440-48-4																												
August 2012			0.5	U	0.5																								
February 2013			0.4	J	0.1																								
May 2013			0.1	J	0.10	0.1	U	0.10	0.1	U	0.10	0.24	J	0.10	0.1	U	0.10	0.3	J	0.10	0.15	J	0.10	0.93		0.10	0.1	U	0.10
August 2013			3.22		0.10	0.12	J	0.10	0.11	J	0.10	0.46	J	0.10	0.11	J	0.10	0.29	J	0.10	0.1	J	0.10	0.82		0.10	0.1	U	0.10
December 2013						0.17	J	0.10	0.2		0.10	0.63		0.10	0.13	J	0.10	0.1	U	0.10	0.17	J	0.10	0.51		0.10	0.19	J	0.10
March 2014						0.1	U	0.10	0.1	U	0.10	0.68		0.10	0.1	U	0.10	0.47	J	0.10	0.19	J	0.10	0.5		0.10	0.14	J	0.10
Mean			**1.06**			**0.12**			**0.13**			**0.50**			**0.11**			**0.29**			**0.15**			**0.69**			**0.13**		
Standard Deviation			**1.45**			**0.03**			**0.05**			**0.20**			**0.01**			**0.15**			**0.04**			**0.22**			**0.04**		
Mean + 3 Standard Deviations			**5.41**			**0.22**			**0.27**			**1.10**			**0.15**			**0.74**			**0.27**			**1.34**			**0.26**		

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READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Copper (ug/l)	200																											
June 2012[2]	CAS #7440-50-8																												
August 2012			1.3	J	0.5																								
February 2013			0.8	J	0.1																								
May 2013			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.12	J	0.10	0.1	U	0.10
August 2013			6.53		0.10	0.35	J	0.10	0.26	J	0.10	0.45	J	0.10	0.35	J	0.10	1.9		0.10	0.21	J	0.10	0.36	J	0.10	0.27	J	0.10
December 2013						0.38	J	0.10	0.48	J	0.10	0.57	J	0.10	0.21	J	0.10	0.19	J	0.10	0.35	J	0.10	0.36	J	0.10	0.24	J	0.10
March 2014						0.38	J	0.10	0.15	J	0.10	0.64	J	0.10	0.28	J	0.10	1.14		0.10	0.44	J	0.10	0.47	J	0.10	0.56	J	0.10
Mean			**2.18**			**0.30**			**0.25**			**0.44**			**0.24**			**0.83**			**0.28**			**0.33**			**0.29**		
Standard Deviation			**2.94**			**0.14**			**0.17**			**0.24**			**0.11**			**0.85**			**0.15**			**0.15**			**0.19**		
Mean + 3 Standard Deviations			**11.00**			**0.71**			**0.75**			**1.16**			**0.55**			**3.39**			**0.73**			**0.77**			**0.87**		
May 2012	Iron (ug/l)	300																											
June 2012[2]	CAS #7439-89-6																												
August 2012			161	J	65																								
February 2013			**935**		13																								
May 2013			119		13.0	**419**		13.0	**303**		13.0	**805**		13.0	215		13.0	**650**		13.0	**465**		13.0	49.1	J	13.0	**386**		13.0
August 2013			**5,480**		13.0	**734**		13.0	**625**		13.0	**1,540**		13.0	**412**		13.0	**738**		13.0	**530**		13.0	**374**		13.0	**660**		13.0
December 2013						**526**		13.0	**530**		13.0	**1,520**		13.0	**352**		13.0	197		13.0	**326**		13.0	139		13.0	**349**		13.0
March 2014						70.6		13	273		13.0	**1,590**		13.0	208		13.0	**818**		13.0	**463**		13.0	122		13.0	**418**		13.0
October 2014			**448**		12	91.1		12	**475**		12	**1,130**		12	**404**		12	**3,580**		12	**370**		12	64.9		12	**310**		12
Mean			**1,429**			**368**			**441**			**1,317**			**318**			**1,197**			**431**			**150**			**425**		
Standard Deviation			**2,288**			**286**			**150**			**340**			**100**			**1,354**			**82**			**131**			**138**		
Mean + 3 Standard Deviations			**8,293**			**1,225**			**892**			**2,337**			**619**			**5,258**			**676**			**542**			**838**		
May 2012	Lead (ug/l)	25																											
June 2012[2]	CAS #37439-92-1																												
August 2012			1.0	U	1.0																								
February 2013			0.9	J	0.2																								
May 2013			0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.36	J	0.20	0.2	U	0.20	0.31	J	0.20	0.24	J	0.20	0.2	U	0.20	0.2	U	0.20
August 2013			4.13		0.20	0.2	U	0.20	0.2	U	0.20	0.33	J	0.20	0.2	U	0.20	0.6	J	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20
December 2013						0.25	J	0.20	0.24	J	0.20	0.51	J	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20	0.2	U	0.20
March 2014						0.2	U	0.20	0.2	U	0.20	0.44	J	0.20	0.2	U	0.20	0.47	J	0.20	0.21	J	0.20	0.2	U	0.20	0.2	U	0.20
October 2014			0.32	J	0.12	0.12	U	0.12	0.12	U	0.12	0.52	J	0.12	0.18	J	0.12	1.07		0.12	0.25	J	0.12	0.1	U	0.12	0.12	U	0.12
Mean			**1.56**			**0.19**			**0.19**			**0.43**			**0.20**			**0.53**			**0.22**			**0.18**			**0.18**		
Standard Deviation			**1.75**			**0.05**			**0.04**			**0.09**			**0.01**			**0.34**			**0.02**			**0.04**			**0.04**		
Mean + 3 Standard Deviations			**6.81**			**0.33**			**0.32**			**0.69**			**0.22**			**1.54**			**0.29**			**0.29**			**0.29**		
May 2012	Magnesium (ug/l)	35,000 (GV)																											
June 2012[2]	CAS #7439-95-4																												
August 2012			12,100		115																								
February 2013			13,400		23																								
May 2013			11,500		23.0	21,000		40	14,400		23.0	13,300		23.0	11,500		23.0	12,800		23.0	12,500		23.0	18,000		40	21,000		40
August 2013			11,000		10	22,000		10	15,000		10	14,000		10	10,000		10	11,000		10	14,000		10	19,000		10	21,000		10
December 2013						22,000		10	13,000		10	14,000		10	12,000		10	13,000		10	12,000		10	21,000		10	23,000		10
March 2014						22,000		10	12,000		10	12,000		10	12,000		10	12,000		10	12,000		10	18,000		10	20,000		10
October 2014			12,000		10	**37,000**		10	14,000		10	13,000		10	14,000		10	15,000		10	12,000		10	18,000		10	20,000		10
Mean			**12,000**			**24,800**			**13,680**			**13,260**			**11,900**			**12,760**			**12,500**			**18,800**			**21,000**		
Standard Deviation			**897**			**6,834**			**1,188**			**829**			**1,432**			**1,479**			**866**			**1,304**			**1,225**		
Mean + 3 Standard Deviations			**14,692**			**45,301**			**17,245**			**15,748**			**16,195**			**17,198**			**15,098**			**22,712**			**24,674**		
May 2012	Manganese (ug/l)	300																											
June 2012[2]	CAS #7439-96-5																												
August 2012			105.3		0.5																								
February 2013			93.7		0.1																								
May 2013			35.74		0.10	61.36		0.10	96.7		0.10	93.47		0.10	82.2		0.10	77.35		0.10	59.96		0.10	73.84		0.10	44.91		0.10
August 2013			**536.2**		2.0	57.53		0.10	104.4		0.10	81.54		0.10	72.15		0.10	62.33		0.10	58.11		0.10	67.22		0.10	39.06		0.10
December 2013						51.59		0.10	87		0.10	56.17		0.10	87.04		0.10	88.15		0.10	42.02		0.10	66.61		0.10	43.69		0.10
March 2014						5.24		0.10	95.15		0.10	33.68		0.10	19.34		0.10	85.96		0.10	62.57		0.10	64.48		0.10	42.66		0.10
October 2014			**678.2**		6.04	4.54		0.3	105.9		0.3	65.78		0.3	21.79		0.3	136.9		0.3	38.54		0.3	56.0		0.3	42.91		0.3
Mean			**289.83**			**36.05**			**97.83**			**66.13**			**56.50**			**90.14**			**52.24**			**65.62**			**42.65**		
Standard Deviation			**295.22**			**28.66**			**7.65**			**23.12**			**33.26**			**28.04**			**11.10**			**6.44**			**2.19**		
Mean + 3 Standard Deviations			**1,175.48**			**122.03**			**120.78**			**135.47**			**156.27**			**174.26**			**85.54**			**84.94**			**49.21**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Mercury (ug/l)	0.7																											
June 2012[2]	CAS #7439-97-6																												
August 2012			0.1	U	0.1																								
February 2013			0.1	U	0.1																								
May 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
August 2013			0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
December 2013						0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
March 2014						0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06	0.06	U	0.06
Mean			**0.08**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**		
Standard Deviation			**0.02**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.15**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**			**0.06**		
May 2012	Nickel (ug/l)	100																											
June 2012[2]	CAS #7440-02-0																												
August 2012			0.5	J	0.5																								
February 2013			1.2		0.1																								
May 2013			0.1	U	0.10	0.27	J	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.56		0.10	0.1	U	0.10
August 2013			6.39		0.10	0.65		0.10	0.49	J	0.10	1.41		0.10	0.77		0.10	0.94		0.10	0.46	J	0.10	1.21		0.10	0.53		0.10
December 2013						0.78		0.10	1.13		0.10	1.88		0.10	0.6		0.10	0.42	J	0.10	0.74		0.10	15.65		0.10	0.91		0.10
March 2014						0.58		0.10	0.16	J	0.10	1.82		0.10	0.83		0.10	1.49		0.10	0.86		0.10	0.97		0.10	1.34		0.10
Mean			**2.05**			**0.57**			**0.47**			**1.30**			**0.58**			**0.74**			**0.54**			**4.60**			**0.72**		
Standard Deviation			**2.93**			**0.22**			**0.47**			**0.83**			**0.33**			**0.61**			**0.34**			**7.37**			**0.53**		
Mean + 3 Standard Deviations			**10.84**			**1.22**			**1.89**			**3.79**			**1.57**			**2.57**			**1.55**			**26.72**			**2.31**		
May 2012	Potassium (ug/l)	No Standard																											
June 2012[2]	CAS #7440-09-7																												
August 2012			732		135																								
February 2013			2,370		27																								
May 2013			611		27.0	2,890		27.0	1,940		27.0	3,820		27.0	3,700		27.0	10,100		27.0	3,350		27.0	5,340		27.0	2,950		27.0
August 2013			1,000		27.0	2,340		27.0	1,660		27.0	1,440		27.0	2,980		27.0	9,790		27.0	2,490		27.0	4,390		27.0	1,650		27.0
December 2013						3,290		27.0	2,730		27.0	1,810		27.0	2,800		27.0	5,960		27.0	2,460		27.0	3,250		27.0	1,610		27.0
March 2014						7,120		27.0	1,420		27.0	2,140		27.0	6,290		27.0	5,530		27.0	2,180		27.0	2,720		27.0	1,740		27.0
October 2014			740		19.3	1,720		19.3	1,650		19.3	1,150		19.3	1,560		19.3	1,950		19.3	1,040		19.3	1,310		19.3	838		19.3
Mean			**1,091**			**3,472**			**1,880**			**2,072**			**3,466**			**6,666**			**2,304**			**3,402**			**1,758**		
Standard Deviation			**729**			**2,123**			**510**			**1,046**			**1,757**			**3,376**			**832**			**1,549**			**758**		
Mean + 3 Standard Deviations			**3,278**			**9,841**			**3,409**			**5,211**			**8,736**			**16,793**			**4,799**			**8,049**			**4,033**		
May 2012	Selenium (ug/l)	10																											
June 2012[2]	CAS #7782-49-2																												
August 2012			2	U	2																								
February 2013			0.3	U	0.3																								
May 2013			0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30
August 2013			0.43	J	0.30	0.3	U	0.30	0.42	J	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30
December 2013						0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30
March 2014						0.32	J	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.3	U	0.30	0.33	J	0.30	0.33	J	0.30	0.3	U	0.30
Mean			**0.76**			**0.31**			**0.33**			**0.30**			**0.30**			**0.30**			**0.31**			**0.31**			**0.30**		
Standard Deviation			**0.83**			**0.01**			**0.06**			**0.00**			**0.00**			**0.00**			**0.02**			**0.02**			**0.00**		
Mean + 3 Standard Deviations			**3.25**			**0.34**			**0.51**			**0.30**			**0.30**			**0.30**			**0.35**			**0.35**			**0.30**		
May 2012	Silver (ug/l)	50																											
June 2012[2]	CAS #7440-22-4																												
August 2012			0.5	U	0.5																								
February 2013			0.1	U	0.1																								
May 2013			0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
August 2013			0.26	J	0.10	0.11	J	0.10	0.1	U	0.10	0.26	J	0.10	0.21	J	0.10	0.13	J	0.10	0.11	J	0.10	0.18	J	0.10	0.11	J	0.10
December 2013						0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
March 2014						0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10	0.1	U	0.10
Mean			**0.24**			**0.10**			**0.10**			**0.14**			**0.13**			**0.11**			**0.10**			**0.12**			**0.10**		
Standard Deviation			**0.19**			**0.01**			**0.00**			**0.08**			**0.06**			**0.01**			**0.01**			**0.04**			**0.01**		
Mean + 3 Standard Deviations			**0.81**			**0.12**			**0.10**			**0.38**			**0.29**			**0.15**			**0.12**			**0.24**			**0.12**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Sodium (ug/l)	20,000																											
June 2012[2]	CAS #7440-23-5																												
August 2012			2,540		75																								
February 2013			11,300		15																								
May 2013			2,590		15.0	18,000		15.0	10,300		15.0	6,610		15.0	**21,400**		15.0	**20,400**		15.0	**28,100**		15.0	12,400		15.0	12,800		15.0
August 2013			2,530		15.0	15,900		15.0	9,030		15.0	4,710		15.0	17,800		15.0	15,300		15.0	**25,900**		15.0	13,400		15.0	12,300		15.0
December 2013						18,400		15.0	11,000		15.0	5,010		15.0	16,600		15.0	10,000		15.0	**25,400**		15.0	12,600		15.0	14,100		15.0
March 2014						18,200		15.0	8,340		15.0	6,410		15.0	**22,600**		15.0	8,240		15.0	**23,000**		15.0	10,600		15.0	14,000		15.0
October 2014			1,090		16.1	17,800		16.1	9,240		16.1	4,760		16.1	19,300		16.1	11,100		16.1	**23,600**		16.1	10,500		16.1	13,700		16.1
Mean			**4,010**			**17,660**			**9,582**			**5,500**			**19,540**			**13,008**			**25,200**			**11,900**			**13,380**		
Standard Deviation			**4,124**			**1,009**			**1,060**			**932**			**2,477**			**4,882**			**2,021**			**1,288**			**792**		
Mean + 3 Standard Deviations			**16,383**			**20,687**			**12,761**			**8,295**			**26,972**			**27,653**			**31,263**			**15,765**			**15,755**		
May 2012	Thallium (ug/l)	0.5 (GV)																											
June 2012[2]	CAS #7440-28-0																												
August 2012			0.2	U	0.2																								
February 2013			0.03	U	0.03																								
May 2013			0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.04	J	0.03	0.03	U	0.03
August 2013			0.06	J	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03
December 2013						0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03
March 2014						0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03	0.03	U	0.03
Mean			**0.08**			**0.03**			**0.03**			**0.03**			**0.03**			**0.03**			**0.03**			**0.03**			**0.03**		
Standard Deviation			**0.08**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.01**			**0.00**		
Mean + 3 Standard Deviations			**0.32**			**0.03**			**0.03**			**0.03**			**0.03**			**0.03**			**0.03**			**0.05**			**0.03**		
May 2012	Vanadium (ug/l)	No Standard																											
June 2012[2]	CAS #7440-62-2																												
August 2012			0.5	U	0.5																								
February 2013			1.2	J	0.1																								
May 2013			0.24	J	0.10	0.1	U	0.10	0.22	J	0.10	0.5	J	0.10	0.32	J	0.10	0.78	J	0.10	0.49	J	0.10	0.43	J	0.10	0.1	U	0.10
August 2013			3.36	J	0.10	0.1	U	0.10	0.13	J	0.10	0.89	J	0.10	0.19	J	0.10	0.7	J	0.10	0.18	J	0.10	1.05	J	0.10	0.1	U	0.10
December 2013						0.59	J	0.10	0.37	J	0.10	2.32	J	0.10	0.63	J	0.10	0.28	J	0.10	1.99	J	0.10	0.93	J	0.10	0.51	J	0.10
March 2014						0.1	U	0.10	0.1	U	0.10	1.81	J	0.10	0.1	U	0.10	0.53	J	0.10	0.19	J	0.10	0.36	J	0.10	0.1	U	0.10
Mean			**1.33**			**0.22**			**0.21**			**1.38**			**0.31**			**0.57**			**0.71**			**0.69**			**0.20**		
Standard Deviation			**1.42**			**0.25**			**0.12**			**0.83**			**0.23**			**0.22**			**0.86**			**0.35**			**0.21**		
Mean + 3 Standard Deviations			**5.57**			**0.96**			**0.57**			**3.88**			**1.00**			**1.24**			**3.30**			**1.74**			**0.82**		
May 2012	Zinc (ug/l)	2,000 (GV)																											
June 2012[2]	CAS #7440-66-6																												
August 2012			11.7	J	6.0																								
February 2013			10.4		1.2																								
May 2013			7.1	J	1.20	17.58		1.20	17.86		1.20	14.9		1.20	11.64		1.20	16.7		1.20	15.3		1.20	14.95		1.20	8.73	J	1.20
August 2013			27.15		1.20	14.17		1.20	10.4		1.20	12.68		1.20	10.82		1.20	13.13		1.20	10.79		1.20	12.14		1.20	10.72		1.20
December 2013						3.06	J	1.20	4.65	J	1.20	6.55	J	1.20	2.82	J	1.20	2.07	J	1.20	3.47	J	1.20	3.02	J	1.20	2.01	J	1.20
March 2014						1.2	U	1.20	2.09	J	1.20	4.57	J	1.20	1.41	J	1.20	3.72	J	1.20	2.44	J	1.20	1.52	J	1.20	1.9		1.20
Mean			**14.09**			**9.00**			**8.75**			**9.68**			**6.67**			**8.91**			**8.00**			**7.91**			**5.84**		
Standard Deviation			**8.92**			**8.09**			**7.00**			**4.90**			**5.30**			**7.12**			**6.12**			**6.64**			**4.56**		
Mean + 3 Standard Deviations			**40.85**			**33.28**			**29.74**			**24.39**			**22.59**			**30.27**			**26.37**			**27.82**			**19.52**		
Volatile Organics																													
May 2012	Acetone (ug/l)	50 (GV)																											
June 2012	CAS #67-64-1																												
August 2012			1.0	U	1.0																								
February 2013			1.0	U	1.0																								
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.8	J	1.0	3.8	J	1.0	1.0	U	1.0	1.0	U	1.0	1.1	J	1.0
August 2013			2.5	J	1.0	2.3	J	1.0	3.4	J	1.0	4.1	J	1.0	2.9	J	1.0	6.7		1.0	1.0	U	1.0	2.7	J	1.0	2.0	J	1.0
December 2013						1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	J	1.0	1.0	U	1.0	1.0	U	1.0
March 2014						1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
October 2014			1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	1.5	U	1.5	3.9	J	1.5	1.5	U	1.5	2.6	J	1.5	1.8	J	1.5	1.5	U	1.5
Mean			**1.40**			**1.36**			**1.58**			**1.72**			**2.12**			**2.80**			**1.32**			**1.50**			**1.32**		
Standard Deviation			**0.65**			**0.57**			**1.04**			**1.35**			**1.26**			**2.47**			**0.72**			**0.75**			**0.43**		
Mean + 3 Standard Deviations			**3.36**			**3.06**			**4.70**			**5.76**			**5.91**			**10.21**			**3.47**			**3.76**			**2.62**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	Parameter	Standard [1]	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL	Result	Q	MDL
May 2012	Benzene (ug/l)	1																											
June 2012	CAS #71-43-2																												
August 2012			0.19	U	0.19																								
February 2013			0.19	U	0.19																								
May 2013			0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19	0.19	U	0.19
August 2013			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
December 2013						0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
March 2014						0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
October 2014			0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16	0.16	U	0.16
Mean			**0.18**			**0.17**			**0.17**			**0.17**			**0.17**			**0.17**			**0.17**			**0.17**			**0.17**		
Standard Deviation			**0.02**			**0.01**			**0.01**			**0.01**			**0.01**			**0.01**			**0.01**			**0.01**			**0.01**		
Mean + 3 Standard Deviations			**0.23**			**0.21**			**0.21**			**0.21**			**0.21**			**0.21**			**0.21**			**0.21**			**0.21**		
May 2012	2-Butanone (ug/l)	50 (GV)																											
June 2012	CAS #78-93-3																												
August 2012			1.0	U	1.0																								
February 2013			1.0	U	1.0																								
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
December 2013						1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
March 2014						1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
October 2014			1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9	1.9	U	1.9
Mean			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**			**1.18**		
Standard Deviation			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**			**0.40**		
Mean + 3 Standard Deviations			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**			**2.39**		
May 2012	Carbon disulfide	60 (GV)																											
June 2012	(ug/l)																												
August 2012	CAS #75-15-0		1.0	U	1.0																								
February 2013			1.0	U	1.0																								
May 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
August 2013			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	4.1	J	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
December 2013						1.0	U	1.0	3.0	J	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
March 2014						1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
October 2014			1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0	1.0	U	1.0
Mean			**1.00**			**1.00**			**1.40**			**1.00**			**1.62**			**1.00**			**1.00**			**1.00**			**1.00**		
Standard Deviation			**0.00**			**0.00**			**0.89**			**0.00**			**1.39**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**1.00**			**1.00**			**4.08**			**1.00**			**5.78**			**1.00**			**1.00**			**1.00**			**1.00**		
May 2012	Chloroform (ug/l)	7																											
June 2012	CAS #67-66-3																												
August 2012			0.70	U	0.70																								
February 2013			0.70	U	0.70																								
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013						0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
March 2014						0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
May 2012	Methylene	5																											
June 2012	Chloride (ug/l)																												
August 2012	Cas #75-09-2		0.70	U	0.70																								
February 2013			0.70	U	0.70																								
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013						0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
March 2014						0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		

TABLE 4 - GROUNDWATER SAMPLING RESULTS - WEST BRINE POND
FINGER LAKES BRINE STORAGE PONDS
READING, NEW YORK

		NYSDEC	MW2012-39			MW2013-51			MW2013-52			MW2013-53			MW2013-54A			MW2013-55			MW2013-56A			MW2013-57			MW2013-58		
Sampling Date	**Parameter**	**Standard (1)**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**	**Result**	**Q**	**MDL**
May 2012	Toluene	5																											
June 2012	(ug/l)																												
August 2012	CAS #108-88-3		0.70	U	0.70																								
February 2012			0.70	U	0.70																								
May 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
August 2013			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
December 2013						0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
March 2014						0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
October 2014			0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70	0.70	U	0.70
Mean			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
Standard Deviation			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**			**0.00**		
Mean + 3 Standard Deviations			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**			**0.70**		
May 2012	Trichloroethene(4)	5																											
June 2012	(ug/l)																												
August 2012	CAS #79-01-6		0.17	U	0.17																								
February 2012			0.17	U	0.17																								
May 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
August 2013			0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
December 2013						0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17	0.17	U	0.17
March 2014						**5.6**		0.17	**11**		0.17	0.17	U	0.17	**29**		0.17	**27**		0.17	**27**		0.17	**20**		0.17	**25**		0.17
October 2014			2.3		0.18	2.5		0.18	**5.5**		0.18	3.2		0.18	**5.2**		0.18	1.2		0.18	1		0.18	1.9		0.18	**10**		0.18
Mean			**0.60**			**1.72**			**3.40**			**0.78**			**6.94**			**5.74**			**5.70**			**4.48**			**7.10**		
Standard Deviation			**0.95**			**2.39**			**4.83**			**1.36**			**12.52**			**11.89**			**11.91**			**8.71**			**10.87**		
Mean + 3 Standard Deviations			**3.45**			**8.90**			**17.90**			**4.84**			**44.51**			**41.42**			**41.44**			**30.60**			**39.72**		

Notes:
(1) NYSDEC TOGS 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, June 1998, and Addenda dated April 2000 and June 2004.
(2) June 2012 groundwater samples were collected for "filtered" metals analysis only from Monitoring Wells MW2012-26 to MW2012-29 due to matrix interference from samples analyzed from the May 2012 sampling event.
The matrix interference is believed to have been caused by high silt content in groundwater from the recently installed wells. Due to matrix interference, the May 2012 analytical results for metals and color, and the field measurement for turbidity, will not be included in the calculation of the mean and standard deviation.
(3) Non-detect analytical results are given a value of "0" if there is no associated laboratory MDL for the analyzed parameter.
(4) Trichloroethene was detected in groundwater from monitoring wells sampled in March 2014 only. The detection of Trichloroethene is believed to be an anomally, as it was not detected in the laboratory's internal QA/QC samples and trip blank sample. Analytical results from a sample collected by passing tap water through the same sampling equipment used during the March 2014 groundwater sampling did not show the presence of Trichloroethene.
This table summarizes detections only for VOC parameters and does not represent all VOC parameters that were analyzed.
NSD denotes that the monitoring well was dry at time of sampling.
GV denotes a Guidance Value.
NA denotes Not Applicable.
U indicates that the parameter was analyzed for but not detected. The analytical result is reported as the MDL.
J indicates an estimated value. The analytical result lies between the Laboratory's Method Detection Limit (MDL) and Reporting Limit (RL).
Parameter concentrations in bold have exceeded their respective groundwater standard and/or guidance value

APPENDIX A

Subsurface Exploration Logs

East Brine Pond

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-22
ELEV.: ±850.99 ft **DATUM: NAVD88**
START DATE: 04/18/2012 **FINISH DATE: 04/18/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	6	12	11	8	23	0.7'	TOPSOIL (±3")
									POSSIBLE FILL: Brown fine SAND & SILT, Some Gravel
									(Moist - Firm) ±4'
5		2	2	4	10	14	14	0.8'	Brown SILT & CLAY, trace fine sand, occasional silt seams
									(Moist - Medium Stiff) ±9'
10		3	17	29	50/0.3'	–	100+	1.6'	GLACIAL TILL: Brown SILT, little to Some embedded coarse Sand & Gravel, little clay (Moist)
									- grades occasional cobble fragments ±11'
15		4	13	50/0.4'	–	–	100+	0.6'	- grades little fine sand & rock fragments, trace clay
20		5	55	46	37	50/0.2'	83	1.7'	- becomes Gray
25		6	20	61	50/0.2'	–	100+	1.0'	- grades occasional rock fragments
									(Moist - Very Compact) ±28'
30									

NOTES

Note 1: Upon completion of SB2012-22, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-22' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/18	23'	30'	EOB

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-22
ELEV.: ±850.99 ft **DATUM: NAVD88**
START DATE: 04/18/2012 **FINISH DATE: 04/18/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		7	50/0.2'	–	–	–	100+	0.2'	- Weathered rock fragments (Wet)
									End of Boring @ 30.2'
									(Sampler Refusal)
35									
40									
45									
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-22, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-22' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/18	23'	30'	End of Boring

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-23
ELEV.: ±851.10 ft **DATUM: NAVD88**
START DATE: 04/19/2012 **FINISH DATE: 04/19/2012**
SHEET 1 OF 1

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	4	11	13	11	24	0.9'	TOPSOIL (±2")
									Brown SILT & fine SAND, trace gravel & clay (Moist)
5									(Moist - Firm) ±5.5'
		2	6	8	13	15	21	1.2'	Brown SILT & CLAY, trace fine sand (Moist)
10									
		3	3	10	14	22	24	2.0'	- grades occasional fine sand partings
									(Moist - Stiff) ±13'
15									
		4	17	31	50/0.4'	–	100+	1.1'	GLACIAL TILL: Brown SILT, little embedded coarse sand & gravel, little clay, occasional cobble fragments (Moist)
20									
		5	18	53	50/0.3'	–	100+	1.2'	- grades Gray, little to Some embedded coarse Sand & Gravel, trace clay, occasional rock fragments
									(Moist - Very Compact) ±24'
25									
		6	50/0.4'	–	–	–	100+	0.3'	- ROCK fragments
									End of Boring @ 25.4' (Auger & Sampler Refusal)
30									

NOTES

Note 1: Upon completion of SB2012-23, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-23' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/19	21.3'	25'	EOB

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-24
ELEV.: ±812.78 ft **DATUM: NAVD88**
START DATE: 04/19/2012 **FINISH DATE: 04/20/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	2	4	6	9	10	0.6'	TOPSOIL (±4")
									Brown fine SAND & SILT, trace gravel (Moist)
									(Moist - Loose) ±3.5'
5									Brown SILT & CLAY, trace fine sand (Moist)
		2	11	14	22	21	36	2.0'	- grades occasional fine sand partings
10									
		3	6	12	31	22	43	2.0'	- grades no fine sand partings - grades occasional cobble fragments ±11'
15									
		4	11	21	50/0.4'	–	100+	1.3'	(Moist - Hard) ±15.5'
									GLACIAL TILL: Brownish-Gray SILT, little to Some Clay, little embedded coarse sand & gravel, occasional cobble fragments (Moist)
20									
		5	38	50/0.1'	–	–	100+	0.4'	- grades Gray, frequent cobble fragments ±16'
25									
		6	50/0.2'	–	–	–	100+	0.2'	- cobble fragments
30									

NOTES

Note 1: Upon completion of SB2012-24, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-24' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/20	17'	40'	14 hours

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-24
ELEV.: ±812.78 ft **DATUM: NAVD88**
START DATE: 04/19/2012 **FINISH DATE: 04/20/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		7	50/0.4'	–	–	–	100+	0.4'	GLACIAL TILL: Gray SILT, little to Some Clay, little embedded coarse sand & gravel, frequent cobble fragments (Moist)
35		8	50/0.4'	–	–	–	100+	0.3'	
40		9	50/0.3'	–	–	–	100+	0.3'	- grades occasional rock fragments
		10	34	50/0.1'	0	0	100+		(Moist - Very Compact)
									End of Boring @ 41.6'
									(Auger & Sampler Refusal)
45									
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-24, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-24' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/20	17'	40'	14 hours

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:

T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-25
ELEV.: ±811.34 ft **DATUM: NAVD88**
START DATE: 04/23/2012 **FINISH DATE: 04/24/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	WH	3	4	3	7	0.9'	TOPSOIL (±3")
									Brown and Orange SILT & CLAY (Moist)
5		2	5	17	30	50/0.4'	47	1.6'	- becomes Brown, cobble fragments in shoe
									(Moist - Medium Stiff to Hard) ±9'
10		3	9	15	20	22	35	2.0'	GLACIAL TILL: Grayish-Brown SILT, little to Some Clay & embedded coarse sand & gravel, occasional clay partings (Moist)
									- no clay partings, occasional fine sand partings ±11.5'
15		4	21	50/0.3'	–	–	100+	0.7'	- grades Brownish-Gray fine SAND, Some Silt, little embedded coarse sand & gravel, no fine sand partings
20		5	41	50/0.1'	–	–	100+	0.4'	- becomes Gray
		6	50/0.1'	–	–	–	100+	0.1'	- cobble fragments
25		7	32	37	50/0.4'	-	100+	0.8'	GLACIAL TILL: Gray fine SAND, Some Silt, little embedded coarse sand & gravel
30									

NOTES

Note 1: At depth of 21', auger and sampler refusal encountered at staked location. Hole offset 12' south and drilled to depth of 25' prior to sampling.

Note 2: WH = weight of drill rods and hammer required to advance sampler 6 inches.

Note 3: Upon completion of SB2012-25, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-25' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/24	8.1'	25'	16 hours

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-25
ELEV.: ±811.34 ft **DATUM: NAVD88**
START DATE: 04/23/2012 **FINISH DATE: 04/24/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		8	31	50/0.2'	–	–	100+	0.3'	Highly weathered BOULDER fragments
35		9	8	33	43	44	76	1.1'	GLACIAL TILL: Gray SILT, little to Some embedded coarse Sand & gravel, little fine sand, trace clay, occasional cobble & rock fragments (Moist)
		10	50/0.1'	–	–	–	100+	0.1'	(Moist - Compact to Very Compact)
40									End of Boring @ 38.1' (Auger & Sampler Refusal)
45									
50									
55									
60									

NOTES

Note 3: Upon completion of SB2012-25, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-25' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/24	8.1'	25'	16 hours

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-30
ELEV.: ±821.53 ft **DATUM: NAVD88**
START DATE: 06/18/2012 **FINISH DATE: 06/19/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5									
		1	7	10	14	17	24	1.9'	Brown SILT, little to Some Clay, trace fine sand (Moist)
10									
		2	14	24	31	50/0.4'	55	2.0'	- grades little clay, trace to little coarse sand & gravel
									(Moist - Stiff to Hard) ±13.5'
15									
		3	22	31	50	50/0.4'	81	1.8'	GLACIAL TILL: Gray SILT, little to Some embedded coarse Sand & Gravel, little clay, occasional rock fragments (Moist)
20									
		4	50/0.4'	–	–	–	100+	0.3'	- highly weathered BOULDER fragments
25									
		5	50/0.1'	–	–	–	100+	0.1'	- cobble fragments
30									

NOTES

Note 1: Hole abandoned and offset 8' east of original location upon encountering auger refusal @ 12.5'.

Note 2: Upon completion of SB2012-30, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-30' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-30
ELEV.: ±821.53 ft **DATUM: NAVD88**
START DATE: 06/18/2012 **FINISH DATE: 06/19/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	50/0.1'	–	–	–	100+	0.1'	GLACIAL TILL: Gray SILT, Some embedded coarse Sand & Gravel, little clay, frequent cobble/rock fragments (Moist)
35									(Moist - Very Compact)
		7	50/0	–	–	–	100+	NR	End of Boring @ 35' (Sampler Refusal)
40									
45									
50									
55									
60									

NOTES

Note 1: Hole abandoned and offset 8' east of original location upon encountering auger refusal @ 12.5'.

Note 2: Upon completion of SB2012-30, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-30' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-31
ELEV.: ±810.48 ft **DATUM: NAVD88**
START DATE: 06/19/2012 **FINISH DATE: 06/20/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5		1	9	14	15	22	29	1.8'	Brown SILT, Some Clay, little coarse sand & gravel (Moist)
									(Moist - Hard) ±8.5'
10		2	12	25	50	50/0.2'	75	1.8'	GLACIAL TILL: Brown SILT, little embedded coarse sand & gravel, trace to little clay (Moist)
15		3	32	50/0.3'	–	–	100+	1.5'	- grades Gray, little fine sand, occasional cobble fragments
20		4	44	50/0.3'	–	–	100+	1.0'	- grades little to Some embedded coarse Sand & Gravel
25		5	50/0.1'	–	–	–	100+	0.1'	- cobble fragments
30									

NOTES

Note 1: Upon completion of SB2012-31, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-31' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-31
ELEV.: ±810.48 ft **DATUM: NAVD88**
START DATE: 06/18/2012 **FINISH DATE: 06/19/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	50/0.1'	–	–	–	100+	0.1'	GLACIAL TILL: Gray SILT, little to Some embedded coarse Sand & Gravel, trace to little clay, occasional cobble fragments (Moist)
		7	50/0	–	–	–	100+	NR	(Moist - Very Compact)
35									End of Boring @ 33' (Sampler Refusal)
40									
45									
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-31, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-31' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-32
ELEV.: ±820.51 ft **DATUM: NAVD88**
START DATE: 06/20/2012 **FINISH DATE: 06/22/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5		1	9	13	17	21	30	1.8'	Brown SILT, little clay, trace coarse sand & gravel (Moist)
									(Moist - Compact) ±8.5'
10		2	26	27	40	36	67	1.9'	GLACIAL TILL: Brown SILT & fine SAND, little embedded coarse sand & gravel, trace clay, frequent cobble fragments (Moist)
15		3	25	50	50/0.1'	–	100+	1.5'	- grades Some Silt
20		4	31	38	30	50/0.2'	68	1.5'	- grades SILT, Some fine Sand, little clay, weathered rock fragment seam ±21.0' - 21.3'
25		5	40	50/0.3'	–	–	100+	1.6'	- grades & fine SAND
30									

NOTES

Note 1: Upon completion of SB2012-32, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-32' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
6/26	39'	42'	EOB

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-32
ELEV.: ±820.51 ft **DATUM: NAVD88**
START DATE: 06/20/2012 **FINISH DATE: 06/22/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	50/0.1'	–	–	–	100+	NR	
35		7	7	6	9	50/0.4'	15	1.1'	Gray SILT & CLAY, trace fine sand & gravel, occasional cobble fragments
40		8	50/0.1'	–	–	–	100+	0.1'	GLACIAL TILL: Gray SILT, little embedded coarse sand & gravel, trace to little clay (Moist)
45		9	50/0	–	–	–	100+	NR	
50									(Moist - Very Compact)
		10	50/0	–	–	–	100+	NR	End of Boring @ 50' (Sampler Refusal)
55									
60									

NOTES

Note 1: Upon completion of SB2012-32, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-32' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
6/26	39'	42'	EOB

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-33
ELEV.: ±812.44 ft **DATUM: NAVD88**
START DATE: 06/25/2012 **FINISH DATE: 06/26/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5		1	4	8	8	12	16	1.8'	Brown SILT, little to Some Clay, trace fine sand (Moist)
									(Moist - Stiff) ±8.5'
10		2	7	12	17	19	29	1.9'	Brown SILT, little clay & coarse sand & gravel, cobble fragments (Moist)
									(Moist - Firm) ±13.5'
15		3	50	50/0.1'	–	–	100+	1.6'	GLACIAL TILL: Brown fine SAND, Some Silt, little embedded coarse sand & gravel, occasional fine to coarse sand partings & cobble fragments
20		4	50/0.4'	–	–	–	100+	0.1'	- cobble fragments
25		5	50/0.1'	–	–	–	100+	0.1'	
30									

NOTES

Note 1: Upon completion of SB2012-33, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-33' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
6/26	39'	42'	End of Boring

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-33
ELEV.: ±812.44 ft **DATUM: NAVD88**
START DATE: 06/25/2012 **FINISH DATE: 06/26/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site, Reading Center, NY CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	50/0.2'	–	–	–	100+	0.2'	GLACIAL TILL: Gray SILT, Some fine Sand, little to Some embedded coarse Sand & Gravel, trace clay (Moist)
35		7	50/0.3'	–	–	–	100+	0.2'	- cobble fragments
40		8	24	50/0.4'	–	–	100+	0.5'	- grades little fine sand, frequent rock fragments (Moist to Wet)
		9	50/0.1'	–	–	–	100+	0.1'	- cobble/rock fragments (Moist to Wet - Very Compact)
45									End of Boring @ 42.1' (Sampler Refusal)
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-33, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-33' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
6/26	39'	42'	End of Boring

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-40
ELEV.: **DATUM:**
START DATE: 03/08/2013 **FINISH DATE: 03/08/2013**
SHEET 1 OF 1

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	13	5	3	18	0.9'	TOPSOIL (±6")
									Brown SILT, little clay, trace to little coarse sand & gravel
									(Moist to Wet - Stiff) ±3.5'
5									
		2	5	50/0.4	–	–	100+	0.7'	Brown fine SAND & SILT, little embedded coarse sand & gravel, trace clay, occasional rock and cobble fragments (Moist)
		3	14	41	50/0.2	–	100+	1.1'	- grades Brownish-Gray, trace silt, no rock or cobble fragments
10									
		4	50	50/0.3	–	–	100+	0.7'	- grades occasional cobble and rock fragments
		5	37	48	50/0.2	–	100+	1.3'	- becomes Gray
									(Moist to Very Compact)
15									End of Boring @ 13.2'
20									
25									
30									

NOTES

Note 1: Hole offset ±14 ft. to west/southwest of staked location due to overhead obstructions.

Note 2: Upon completion of SB2013-40, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-40' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-41
ELEV.: **DATUM:**
START DATE: 03/11/2013 **FINISH DATE: 03/11/2013**
SHEET 1 OF 1

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	WH	1	2	3	3	1.0'	TOPSOIL (±6")
									Reddish-Brown SILT, little clay, trace fine to coarse sand & gravel (Moist to Wet)
5		2	9	14	14	14	28	1.6'	- becomes Brown
		3	21	23	21	22	44	1.3'	
10		4	8	10	18	36	28	1.7'	- grades occasional partings of fine SAND (Moist to Wet - Loose to Compact) ±10'
		5	37	50/0.4	–	–	100+	1.3'	Brownish-Gray fine SAND, little silt, coarse sand & gravel, trace clay, occasional rock fragments (Moist)
15		6	18	16	15	48	31	1.3'	- layer of Brown SILT, Some Clay, trace fine sand ±13' - 14'
		7	16	29	41	50/0.3	70	1.7'	- becomes Gray ±16.5'
		8	50/0.3	–	–	–	100+	0.2'	- becomes Brownish-Gray (Moist - Very Compact)
20									End of Boring @ 17.3'
25									
30									

NOTES

Note 1: WH = weight of drill rods and hammer required to advance sampler 6 inches.

Note 2: Upon completion of SB2013-41, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-41' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-42
ELEV.: **DATUM:**
START DATE: 03/11/2013 **FINISH DATE: 03/11/2013**
SHEET 1 OF 1

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	2	2	3	4	1.0'	TOPSOIL (±6")
									Brown fine SAND, Some Silt, trace clay, coarse sand & gravel
									(Moist to Wet - Loose) ±3.5'
5									
		2	4	8	11	15	19	1.6'	Brown SILT, little to Some Clay, occasional fine sand partings
		3	5	10	13	17	23	1.8'	- becomes varved, partings of clay, no sand
10									
		4	4	9	9	13	18	1.8'	- no partings
									(Moist to Wet - Stiff) ±12.5'
		5	13	22	20	15	42	1.6'	Brown fine SAND, Some Silt, little coarse sand & gravel, occasional rock fragments (Moist)
15		6	3	4	13	50/0.4'	17	1.4'	- grades little clay, no rock fragments
		7	50/0.4'	–	–	–	100+	0.1'	- cobble fragments in shoe
		8	23	50/0.3	–	–	100+	0.7'	- grades Gray, little silt
20									(Moist - Firm to Very Compact)
		9	50/0.3'	–	–	–	100+	0.3'	End of Boring @ 20.3'
25									
30									

NOTES

Note 1: Upon completion of SB2013-42, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-42' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-43
ELEV.: **DATUM:**
START DATE: 03/12/2013 **FINISH DATE: 03/12/2013**
SHEET 1 OF 1

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	WH	2	2	3	4	1.3'	TOPSOIL (±6")
									Reddish-Brown SILT, Some Clay, trace fine sand (Moist)
5		2	5	14	50/0.3	–	100+	1.1'	(Moist - Soft) ±6'
									GLACIAL TILL: Brown fine SAND, little silt, embedded coarse sand & gravel, trace clay, occasional rock fragments (Moist)
		3	9	16	42	59	58	1.8'	
10		4	10	19	18	23	37	1.8'	- becomes Brownish-Gray ±7'
									- grades trace to little clay, no rock fragments ±9'
		5	26	26	25	43	51	2.0'	- grades little to Some Silt, little clay
		6	10	50/0.4	–	–	100+	0.8'	- grades occasional fine sand partings
15									(Moist - Compact to Very Compact)
									End of Boring @ 13.9'
20									
25									
30									

NOTES

Note 1: WH = weight of drill rods and hammer required to advance sampler 6 inches.

Note 2: Upon completion of SB2013-43, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-43' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-44
ELEV.: **DATUM:**
START DATE: 03/13/2013 **FINISH DATE: 03/13/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1	3	3	3	3	6	1.6'	TOPSOIL (±3")	Note 1: Upon completion of SB2013-44, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-44' for well installation details.
									Reddish-Brown SILT, little to Some Clay, occasional seams of fine sand & silt (Moist)	
5		2	6	7	7	7	14	1.4'	- grades trace coarse sand & gravel, no seams	
									(Moist - Medium Stiff) ±8.5'	
10		3	7	15	21	28	36	1.8'	Brownish-Gray fine SAND, Some Silt, little coarse sand & gravel, occasional rock fragments (Moist)	
15		4	41	22	25	25	47	1.5'	- becomes GLACIAL TILL: Gray fine SAND, little silt, embedded coarse sand & gravel, trace clay, occasional rock fragments	
20		5	16	31	32	41	63	1.5'	- frequent rock fragments - possible severly weathered boulder & bedrock	
25									- grades little clay ±25.0'	
		6	42	50/0.2	–	–	100+	0.7'	(Moist - Compact to Very Compact) ±25.5'	
		7	50/0.2	–	–	–	100+	0.2'	- severely weathered rock fragments	Run 1: 26.5' - 30.5'
		Run1							- becomes severe to moderately weathered medium hard, medium to thickly bedded Gray SHALE with very close to close fracture spacing	NX - size core Recovery = 3.9' RQD = 23%
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

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SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-44
ELEV.: **DATUM:**
START DATE: 03/13/2013 **FINISH DATE: 03/13/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		Run 2							Severe to moderately weathered medium hard, medium to thickly bedded Gray SHALE with very close to close fracture spacing	Run 2: 30.5' - 35.5' NX - size core Recovery = 60" RQD = 53%
35									- becomes moderately weathered with close fracture spacing ±30.5'	
		Run 3							- severely weathered seam 37.1' - 37.4'	Run 3: 35.5' - 40.5' NX - size core Recovery = 60" RQD = 53%
40										
		Run 4								Run 4: 40.5' - 45.5' NX - size core Recovery = 60" RQD = 85%
45										
									End of Boring @ 45.5' (Auger & Sampler Refusal ±27.5')	
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-45
ELEV.: **DATUM:**
START DATE: 03/14/2013 **FINISH DATE: 03/15/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	3	5	5	8	0.3'	TOPSOIL (±6")
5		2	7	13	17	17	30	1.0'	Brown fine SAND, little to Some Silt, little coarse sand & gravel, frequent rock fragments (Moist)
10		3	12	19	50/0.2	–	100+	1.2'	(Moist - Loose to Compact) ±11.0'
									GLACIAL TILL: Brown fine SAND, little to Some Silt, little embedded coarse sand & gravel, trace clay (Moist)
15		4	50/0.4	–	–	–	100+	0.4'	- grades Brownish-Gray, trace to little silt, no clay
20		5	50/0.4'	–	–	–	100+	0.4'	- grades Gray, Some Silt, little clay, frequent rock fragments (Moist to Wet)
									(Moist to Wet - Very Compact) ±23.5'
25									Severe to completely weathered ROCK, weathered to Gray fine SAND, Some Silt, trace clay, frequent rock fragments (Wet) ±25.0'
		6	50/0.3	–	–	–	100+	0.3'	- becomes severely weathered rock fragments ±27'
		7	50/0.1	–	–	–	100+	0.1'	- becomes severe to moderately weathered, medium hard, thin to medium bedded Gray SHALE with close to very close fracture spacing
30		Run 1							

NOTES

Note 1: Upon completion of SB2013-45, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-45' for well installation details.

Run 1: 27.5 - 30.5'
NX - size core
Recovery = 36"
RQD = ____%

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-45
ELEV.: **DATUM:**
START DATE: 03/14/2013 **FINISH DATE: 03/15/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		Run 2							Severe to moderately weathered, medium hard, thin to medium bedded Gray SHALE with close to very close fracture spacing - becomes moderately weathered with close fracture spacing ±30.5' - severely weathered seam ±34.1' - 34.3'	Run 2: 30.5' - 35.5' NX - size core Recovery = 60" RQD = 20%
35										
		Run 3								Run 3: 35.5' - 39.5' NX - size core Recovery = 48" RQD = 63%
40									End of Boring @ 39.5' (Auger Refusal @ 26.5', Sampler Refusal ±26.2')	
45										
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-46
ELEV.: **DATUM:**
START DATE: 03/19/2013 **FINISH DATE: 03/20/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	3	4	3	7	0.7'	TOPSOIL (±6")
									Brown fine SAND, Some Silt, frequent rock fragments
									(Moist - Loose) ±3.5'
5		2	6	11	14	20	25	2.0'	Brown SILT, little to Some Clay, trace fine to coarse sand & gravel (Moist)
10		3	6	12	11	16	23	1.8'	- grades & CLAY, occasional varving, no coarse sand & gravel (Moist)
15									(Moist - Hard) ±15.0'
		4	5	15	21	19	36	1.8'	Brownish-Gray fine SAND, Some Silt, trace to little coarse sand & gravel, trace clay (Moist)
20		5	43	50/0.4	–	–	100+	0.8'	- becomes GLACIAL TILL: Gray fine SAND, little embedded coarse sand & gravel, trace to little silt (Moist)
25		6	49	50/0.2	–	–	100+	0.7'	- grades frequent cobble fragments
30									

NOTES

Note 1: Upon completion of SB2013-46, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-46' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-46
ELEV.: **DATUM:**
START DATE: 03/19/2013 **FINISH DATE: 03/20/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	42	50/0.3	–	–	100+	0.8'	GLACIAL TILL: Gray fine SAND, little silt, trace embedded coarse sand & gravel (Moist)	
35		8	50/0.2'	–	–	–	100+	0.1'	- grades little embedded coarse sand & gravel, occasional rock fragments	
40		9	50/0.1	–	–	–	100+	0.1'	Severely weathered rock fragments	
		Run 1							Severely weathered, medium hard, thin to medium bedded Gray SHALE with very close fracture spacing	Run 1: 40.5' - 45.5' NX - size core Recovery = 23" RQD = 0%
45										
		Run 2							- becomes medium weathered with close to moderately close fracture spacing - soil seam ±46.5' - 46.7'	Run 2: 45.5' - 50.5' NX - size core Recovery = 60" RQD = 93%
50										
		Run 3								Run 3: 50.5' - 55.5' NX - size core Recovery = 60" RQD = 100%
55										
									End of Boring @ 55.5' (Auger Refusal @ ±40.5')	
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-47
ELEV.: **DATUM:**
START DATE: 03/25/2013 **FINISH DATE: 03/26/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	1	2	3	3	1.3'	TOPSOIL (±6")
									Brown SILT, little to Some Clay, trace fine sand & organics (Moist)
5		2	6	10	15	15	25	1.8'	- grades little fine sand, trace to little clay, no organics
10		3	9	8	10	15	18	0.7'	- grades & CLAY, little coarse sand & gravel
									(Moist - Soft to Stiff) ±13.0'
									Brown fine SAND, little coarse sand & gravel, trace to little silt (Moist)
15		4	4	26	39	30	65	1.8'	
20		5	23	32	48	50/0.2	80	1.4'	- becomes GLACIAL TILL: Gray fine SAND, little embedded coarse sand & gravel, trace to little silt
25		6	12	14	50/0.3	–	100+	0.7'	- grades Some Silt & Clay
30									

NOTES

Note 1: Upon completion of SB2013-47, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-47' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-47
ELEV.: **DATUM:**
START DATE: 03/25/2013 **FINISH DATE: 03/26/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	50/0.3	–	–	–	100+	0.2'	GLACIAL TILL: Gray fine SAND & SILT, little embedded coarse sand & gravel, trace to little clay, occasional rock fragments (Moist)	
		8	50/0	–	–	–	100+	NR		
		Run 1							Moderately weathered, medium hard, thin to medium bedded Gray SHALE with close to moderately close fracture spacing	Run 1: 30.8' - 36.0' HQ - size core Recovery = 62"
35										
		Run 2								Run 2: 36.0' - 41.0' HQ - size core Recovery = 60"
40										
		Run 3								Run 3: 41.0' - 44.0' HQ - size core Recovery = 36"
45									End of Boring @ 44.0' (Auger & Sampler Refusal @ ±30.8')	
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-48
ELEV.: **DATUM:**
START DATE: 03/27/2013 **FINISH DATE: 03/27/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1	1	3	5	7	8	0.7'	TOPSOIL (±6")	Note 1: Upon completion of SB2013-48, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-48' for well installation details.
									Brown SILT, little to Some Clay, trace fine to coarse sand & gravel (Moist)	
5		2	10	16	14	16	30	1.1'	- grades Some fine Sand, little clay, coarse sand & gravel, occasional cobble fragments	
10		3	50/0.3	–	–	–	100+	0.1'	- grades & SAND, frequent cobble fragments	
									(Moist - Medium Stiff to Hard) ±13.0'	
15		4	16	21	50/0.2	–	100+	1.1'	GLACIAL TILL: Gray fine SAND, little to Some Silt, little embedded coarse sand & gravel, frequent rock & occasional cobble fragments (Moist)	
20		5	50/0.4	–	–	–	100+	0.4'	- becomes severely weathered boulder & rock fragments (Wet)	
25		6	50/0.1	–	–	–	100+	0.1'	- rock fragments	Run 1: 24.5' - 25.3' HQ - size core Recovery = 10"
		Run 1							Severely weathered, moderately hard, thin to medium bedded Gray SHALE with very close fracture spacing	
		Run 2							- becomes moderately weathered, with close to moderate fracture spacing ±25.0'	Run 2: 25.3' - 30.5' HQ - size core Recovery = 63"
30									- severely weathered seam ±29.3' - 29.6'	

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-48
ELEV.: **DATUM:**
START DATE: 03/27/2013 **FINISH DATE: 03/27/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		Run 3							Moderately weathered, medium hard, thin to medium bedded Gray SHALE with moderately close fracture spacing - severely weathered seam with very close fracture spacing 31.7' - 31.9'	Run 3: 30.5' - 35.5' HQ - size core Recovery = 60"
35										
		Run 4								Run 4: 35.5' - 39.5' HQ - size core Recovery = 48"
									End of Boring @ 38.1' (Auger Refusal @ ±24.5')	
40										
45										
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-49
ELEV.: **DATUM:**
START DATE: 03/28/2013 **FINISH DATE: 03/29/2013**
SHEET 1 OF 3

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	3	3	2	3	5	1.3'	TOPSOIL (±3")
									Brown SILT, little clay, trace to little coarse sand & gravel (Moist)
5		2	4	4	4	16	8	1.4'	
									(Moist - Soft to Medium Stiff) ±8.0'
10		3	50/0.2	–	–	–	100+	0.2'	Brownish-Gray fine SAND & SILT, little coarse sand & gravel, frequent rock fragments
15		4	14	43	50/0.2	–	100+	1.1'	- becomes GLACIAL TILL: Brownish-Gray fine SAND, little silt, embedded coarse sand & gravel, frequent rock fragments (Moist)
20		5	32	20	50/0.3	–	100+	0.9'	- grades trace clay
25									(Moist - Very Compact) ±25.0'
		6	50/0.1	–	–	–	100+	0.1'	Severely weathered ROCK fragments
30									

NOTES

Note 1: Upon completion of SB2013-49, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-49' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-49
ELEV.: **DATUM:**
START DATE: 03/28/2013 **FINISH DATE: 03/29/2013**
SHEET 2 OF 3

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	50/0.1	–	–	–	100+	0.1'	Severely weathered ROCK fragments	
35		8	50/0.1	–	–	–	100+	0.1'		
40		9	50/0.1	–	–	–	100+	0.1'		
45		10	50/0.1	–	–	–	100+	0.1'		
		Run 1							Moderately weathered, medium hard, thin to medium bedded Gray SHALE with close to moderately close fracture spacing	Run 1: 45.5' - 50.5' HQ - size core Recovery = 60"
50										
		Run 2								Run 2: 50.5' - 55.3' HQ - size core Recovery = 58"
55										
		Run 3							- becomes slightly weathered with moderately close fracture spacing	Run 3: 55.3' - 60.3' HQ - size core Recovery = 60"
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

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SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-49
ELEV.: **DATUM:**
START DATE: 03/28/2013 **FINISH DATE: 03/29/2013**
SHEET 3 OF 3

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		Run 4							Slightly weathered, medium hard, thin to medium bedded Gray SHALE with moderately close fracture spacing	Run 4: 60.3' - 62.3' HQ - size core Recovery = 24"
									End of Boring @ 62.3' (Auger & Sampler Refusal @ ±45.5')	
65										
70										
75										
80										
85										
90										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-50
ELEV.: **DATUM:**
START DATE: 04/01/2013 **FINISH DATE: 04/02/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1	2	4	5	6	9	1.2'	TOPSOIL (±3")	Note 1: Upon completion of SB2013-50, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-50' for well installation details.
									Brown fine SAND, little silt, coarse sand & gravel	
									(Moist - Loose) ±3.5'	
5										
		2	4	6	7	8	13	1.4'	Reddish-Brown SILT, little clay, trace fine to coarse sand & gravel (Moist)	
									(Moist - Medium Stiff) ±8.5'	
10										
		3	10	11	22	23	33	1.8'	Brown fine SAND, little silt, coarse sand & gravel, occasional cobble & rock fragments (Moist)	
15										
		4	28	30	33	48	63	1.6'	- becomes GLACIAL TILL: Gray fine SAND, little silt, embedded coarse sand & gravel, occasional cobble & rock fragments	
20										
		5	16	22	38	50/0.2	60	1.4'	- frequent rock fragments	
									(Moist - Compact to Very Compact) ±22.0'	
		6	50/0.4	–	–	–	100+	0.4'	Severely weathered ROCK fragments	Run 1: 23.4' - 26.4'
25									Severely weathered,medium hard, thinly bedded Gray	NX - size core
		Run 1							SHALE with close fracture spacing	Recovery = 29"
									Soil seams ±24.0' - 24.3', ±24.9' - 25.3'	
		Run 2							- occasional vertical fractures	Run 2: 26.4' - 31.4'
										NX - size core
30										Recovery = 48"

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-50
ELEV.: **DATUM:**
START DATE: 04/01/2013 **FINISH DATE: 04/02/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: East Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		Run 2							Severely weathered, medium hard, medium bedded Gray SHALE with very close fracture spacing - becomes moderately weathered with close fracture spacing ±34.4'	Run 2: 26.4' - 31.4' NX - size core Recovery = 48"
		Run 3								Run 3: 31.4' - 33.9' NX - size core Recovery = 25"
35		Run 4								Run 4: 33.9' - 26.0' NX - size core Recovery = 25"
									End of Boring @ 36' (Auger & Sampler Refusal ±23.4')	
40										
45										
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

West Brine Pond

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-26
ELEV.: ±1,034.95 ft **DATUM: NAVD88**
START DATE: 04/24/2012 **FINISH DATE: 04/25/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	WH / 12"		4	4	4	0.4'	TOPSOIL (±4")
									Brown SILT, little clay, occasional rock fragments (Moist)
5									(Moist - Very Soft) ±5.5'
		2	5	12	50/0.1'	–	100+	1.1'	GLACIAL TILL: Brown SILT, Some Clay, little embedded coarse sand & gravel, occasional rock fragments & fine sand partings (Moist)
10		3	11	23	34	34	57	1.3'	- grades Gray, Some embedded coarse Sand & Gravel, trace clay, frequent cobble fragments, no partings
15		4	27	50	50	50/0.4'	100+	1.6'	- grades occasional cobble fragments
20		5	26	41	39	39	80	1.4'	- occasional seams of weathered cobbles
25		6	14	24	29	40	53	1.0'	- seams of fine to medium SAND, Some Silt, trace gravel in shoe
30									

NOTES

Note 1: At depth of 6.4', auger and sampler refusal encountered at staked location. Hole offset 5' east and drilled to depth of 10' prior to sampling.

Note 2: WH = weight of drill rods and hammer required to advance sampler 6 inches.

Note 3: Upon completion of SB2012-26, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-26' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/25	19.5'	20'	14 hours
4/25	26.2'	35'	EOB

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-26
ELEV.: ±1,034.95 ft **DATUM: NAVD88**
START DATE: 04/24/2012 **FINISH DATE: 04/25/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	14	17	50/0.4'	–	100+	1.1'	GLACIAL TILL: Gray SILT & fine SAND, little embedded coarse sand & gravel, occasional cobble fragments (Moist)	Note 3: Upon completion of SB2012-26, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-26' for well installation details.
35		8	16	50/0.3'	–	–	100+	0.6'	- weathered rock fragments	
									End of Boring @ 35.8' (Sampler Refusal)	
40										
45										
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/25	19.5'	20'	14 hours
4/25	26.2'	35'	EOB

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-27
ELEV.: ±1,041.51 ft **DATUM: NAVD88**
START DATE: 04/25/2012 **FINISH DATE: 04/25/2012**
SHEET 1 OF 1

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	3	7	10	10	0.9'	TOPSOIL (±3")
									Brown SILT, Some Clay, trace to little fine sand (Moist)
5		2	3	6	7	11	13	1.8'	- grades little fine to coarse sand & gravel
									(Moist - Loose to Firm) ±8.5'
10		3	10	15	26	27	41	2.0'	GLACIAL TILL: Brown SILT, Some fine Sand, little embedded coarse sand & gravel, occasional cobble fragments (Moist)
15		4	50/0.4'	–	–	–	100+	0.2'	- cobble fragments
20		5	14	27	22	29	49	1.7'	- becomes Gray, frequent cobble fragments
25		6	15	50/0.3'	–	–	100+	0.6'	- cobble or rock fragments in shoe
		7	50/0.4'	–	–	–	100+	0.1'	- cobble or rock fragments
									(Moist - Compact to Very Compact)
									End of Boring @ 26.1'
30									(Auger & Sampler Refusal)

NOTES

Note 1: Upon completion of SB2012-27, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-27' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-28
ELEV.: ±986.23 ft **DATUM: NAVD88**
START DATE: 04/26/2012 **FINISH DATE: 04/26/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	2	3	4	5	1.1'	TOPSOIL (±3")
									Light Brown SILT, little fine sand & gravel (Moist)
									- becomes Light Brown & Orange Mottled
									(Moist - Loose) ±3.5'
5									
		2	9	9	8	6	17	0.5'	Brown fine to medium SAND, Some Silt and Gravel,
									frequent rock fragments (Wet)
10									
		3	2	2	2	2	4	1.3'	- grades fine SAND, little silt, no gravel or rock fragments
									(Saturated)
15									
		4	18	29	35	45	64	0.3'	(Wet to Saturated - Very Loose to Firm) ±15.5'
									GLACIAL TILL: Brownish-Gray SILT, little to Some
									embedded coarse Sand & Gravel, occasional cobble
20									fragments
		5	34	50/0.4'	–	–	100+	0.7'	- becomes Gray, frequent cobble fragments ±20.5'
25									
		6	11	25	42	54	67	1.7'	- possible cobble or weathered rock fragments in shoe
30									

NOTES

Note 1: Upon completion of SB2012-28, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-28' for well installation details.

N = NO. OF BLOWS TO DRILL 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/26	3'	5'	1 min.

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-28
ELEV.: ±986.23 ft **DATUM: NAVD88**
START DATE: 04/26/2012 **FINISH DATE: 04/26/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	26	50/0.3'	–	–	100+	0.7'	GLACIAL TILL: Gray SILT, little to Some embedded coarse Sand & Gravel, frequent cobble fragments (Moist)	Note 1: Upon completion of SB2012-28, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-28' for well installation details.
									Highly weathered SHALE fragments	
35									End of Boring @ 32.7' (Auger & Sampler Refusal)	
40										
45										
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/26	3'	5'	1 min.

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-29
ELEV.: ±988.7 ft **DATUM: NAVD88**
START DATE: 04/30/2012 **FINISH DATE: 04/30/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	2	5	34	7	0.8'	TOPSOIL (±6")
									Brown SILT & fine sand, trace clay (Moist)
5		2	8	23	26	24	49	1.5'	- grades little to Some coarse Sand & Gravel, little clay & fine sand (Moist)
									(Moist - Loose to Very Compact) ±8.5'
10		3	2	6	2	8	8	0.3'	Gray fine to medium SAND, Some Gravel, little silt (Wet)
15		4	5	8	11	14	19	2.0'	- grades fine SAND, no gravel
20		5	5	9	11	10	20	1.1'	- grades little coarse sand & gravel, occasional rock fragments (Wet)
									(Wet - Loose to Firm) ±23.5'
25		6	45	50/0.3'	–	–	100+	0.4'	GLACIAL TILL: Gray SILT, Some Clay, little to Some coarse Sand & Gravel, occasional cobble fragments (Moist to Wet)
30									

NOTES

Note 1: Upon completion of SB2012-29, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-29' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/30	35.3'	43'	EOB +10 min.

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-29
ELEV.: ±988.7 ft **DATUM: NAVD88**
START DATE: 04/30/2012 **FINISH DATE: 04/30/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: T. Morgan

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		7	43	50/0.1'	–	–	100+	0.4'	GLACIAL TILL: Gray SILT, Some embedded coarse Sand & Gravel, little clay (Wet)
35		8	9	21	29	50/0.4'	50	0.9'	- possible weathered rock fragments in shoe
40		9	22	50/0.2'	–	–	100+	0.5'	- possible highly weathered rock fragments (Moist to Wet - Very Compact)
45		10	50/0.2'	–	–	–	100+	NR	End of Boring @ 43.2' (Sampler Refusal)
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-29, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-29' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/30	35' - 3"	43'	EOB +10 min.

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-34
ELEV.: ±1,001.41 ft **DATUM: NAVD88**
START DATE: 06/26/2012 **FINISH DATE: 06/27/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5									
		1	9	5	6	5	11	0.6'	Brown SILT, little fine sand, trace gravel & clay, occasional cobble fragments (Moist)
10									
		2	5	16	15	12	31	0.6'	- no cobble fragments (Moist to Wet)
									(Moist - Firm to Compact) ±13.5'
15									
		3	7	13	20	18	33	1.1'	GLACIAL TILL: Gray SILT, little embedded coarse sand & gravel, trace clay, frequent rock fragments (Moist)
20									
		4	12	21	24	34	45	1.0'	
25									
		5	17	50/0.4'	–	–	100+	0.8'	- grades little to Some Clay, trace to little embedded coarse sand & gravel (Moist to Wet)
30									

NOTES

Note 1: Upon completion of SB2012-34, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-34' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
6/27	12.8'	33'	19 hours

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-34
ELEV.: ±1,001.41 ft **DATUM: NAVD88**
START DATE: 06/26/2012 **FINISH DATE: 06/27/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	47	17	46	50/0.3'	63	1.8'	GLACIAL TILL: Gray SILT, little to Some Clay, little embedded coarse sand & gravel, frequent rock fragments (Moist - Compact to Very Compact) ±33'
		7	50/0.1'	–	–	–	100+	0.2'	Highly weathered BOULDER or ROCK fragments
35		8	50/0.1'	–	–	–	100+	0.1'	
		9	50/0.1'	–	–	–	100+	0.1'	- cobble/rock fragments
40									End of Boring @ 37.1' (Sampler Refusal)
45									
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-34, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-34' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
6/27	12.8'	33'	19 hours

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-35
ELEV.: ±987.40 ft **DATUM: NAVD88**
START DATE: 06/27/2012 **FINISH DATE: 06/28/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5									
		1	7	12	23	23	35	1.7'	Brown SILT, little to Some fine Sand, little clay & coarse sand & gravel
									(Moist - Compact) ±8.5'
10									
		2	11	8	6	5	14	1.1'	Brown fine to medium SAND, little silt, trace clay & gravel, occasional silt partings
									(Moist to Wet - Firm) ±13.5'
15									
		3	8	12	17	15	29	1.0'	Gray SILT, Some fine Sand & Gravel, trace clay, frequent rock fragments (Wet)
20									
		4	21	20	23	44	43	1.2'	- Becomes GLACIAL TILL: Gray SILT, little to Some fine sand, little embedded coarse sand & gravel, trace clay
25									
		5	22	39	38	48	77	1.1'	- frequent rock fragments
30									

NOTES

Note 1: Hole abandoned and offset 15' northeast of original location upon encountering auger refusal @ 25'.

Note 2: Upon completion of SB2012-35, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-35' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-35
ELEV.: ±987.40 ft **DATUM: NAVD88**
START DATE: 06/27/2012 **FINISH DATE: 06/28/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	16	40	50/0.4'	–	63	1.0'	GLACIAL TILL: Gray SILT, little to Some embedded coarse Sand & Gravel, little clay, frequent rock fragments (Moist)
									(Moist - Firm to Very Compact) ±34'
35		7	50/0.3'	–	–	–	100+	0.3'	Highly weathered ROCK or BOULDER
		8	50/0.1'	–	–	–	100+	0.1'	- rock/cobble fragments
40									End of Boring @ 37.1' (Sampler Refusal)
45									
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-35, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-35' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-36
ELEV.: ±1,019.44 ft **DATUM: NAVD88**
START DATE: 07/02/2012 **FINISH DATE: 07/03/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5									
		1	9	9	14	16	23	1.2'	Brown SILT, Some fine Sand, little clay, occasional cobble & rock fragments (Moist)
10									
		2	13	22	40	50/0.4	62	1.2'	- grades little to Some fine Sand
									(Moist - Firm to Very Compact) ±13.5'
15									
		3	22	31	46	27	77	1.8'	GLACIAL TILL: Gray fine SAND, little silt & embedded coarse sand & gravel, trace clay (Moist)
20									
		4	16	28	50	50/0.4	78	1.5'	- grades occasional cobble fragments
25									
		5	25	28	50/0.4'	–	100+	1.7'	- grades & SILT, trace to little clay
30									

NOTES

Note 1: Upon completion of SB2012-36, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-36' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-36
ELEV.: ±1,019.44 ft **DATUM: NAVD88**
START DATE: 07/02/2012 **FINISH DATE: 07/03/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	29	50	50/0.4'	–	100+	1.6'	GLACIAL TILL: Gray SILT & fine SAND, little embedded coarse sand & gravel, trace clay, occasional cobble fragments (Moist)
35		7	50/0.1'	–	–	–	100+	0.1'	- cobble/rock fragments (Moist - Very Compact)
									End of Boring @ 35.1' (Sampler Refusal)
40									
45									
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-36, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-36' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-37
ELEV.: ±999.31 ft **DATUM: NAVD88**
START DATE: 06/29/2012 **FINISH DATE: 07/02/2012**
SHEET 1 OF 2

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5									
		1	2	2	3	2	5	1.2'	Brown SILT, Some fine Sand, trace gravel & clay (Moist)
10									
		2	4	5	9	9	14	1.4'	- grades little clay, trace fine sand, no gravel, fine to coarse sand partings 11.2' - 11.4'
									(Moist - Loose to Firm) ±13.5'
15									
		3	20	29	31	50/0.3'	60	1.2'	GLACIAL TILL: Gray SILT, Some fine Sand, little to Some embedded coarse Sand & Gravel, occasional cobbles & rock fragments (Moist)
20									
		4	26	15	17	19	32	1.2'	- grades little clay, trace fine sand & embedded coarse sand & gravel, no fragments (Moist)
25									
		5	13	19	22	24	41	1.7'	
30									

NOTES

Note 1: Upon completion of SB2012-37, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-37' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-37
ELEV.: ±999.31 ft **DATUM: NAVD88**
START DATE: 06/29/2012 **FINISH DATE: 07/02/2012**
SHEET 2 OF 2

PROJECT: Proposed East & West Brine Ponds CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		6	25	26	39	50	65	1.9'	GLACIAL TILL: Gray SILT, Some fine Sand, little embedded coarse sand & gravel, trace clay, occasional cobble fragments (Moist - Compact to Very Compact) ±33.8'
35		7	50/0.2'	–	–	–	100+		Highly weathered ROCK fragments
									End of Boring @ 34.2' (Sampler Refusal)
40									
45									
50									
55									
60									

NOTES

Note 1: Upon completion of SB2012-37, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-37' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-38
ELEV.: ±990.59 ft **DATUM: NAVD88**
START DATE: 06/28/2012 **FINISH DATE: 06/28/2012**
SHEET 1 OF 1

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	3	16	13	14	29	1.1'	Brown SILT, Some fine Sand, trace clay, occasional cobble fragments (Moist)
		2	17	11	12	13	23	0.1'	- grades little fine sand, trace to little clay - grades & SAND, little coarse sand & gravel (Moist to Wet)
5		3	8	9	8	9	17	1.4'	(Moist to Wet - Firm) ±5'
		4	8	5	6	6	11	1.6'	Brown fine to medium SAND, trace to little silt (Moist to Wet) - grades Brown-Gray mottled, Some Silt, trace coarse sand & gravel (Moist to Wet) ±6'
		5	6	4	6	5	10	1.7'	
10									- grades fine to coarse SAND, little silt, trace gravel, occasional silt seams ±8' (Moist to Wet - Loose to Firm) End of Boring @ 10'
15									
20									
25									
30									

NOTES

Note 1: Upon completion of SB2012-38, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-38' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2012-39
ELEV.: ±989.55 ft **DATUM: NAVD88**
START DATE: 06/28/2012 **FINISH DATE: 06/28/2012**
SHEET 1 OF 1

PROJECT: Proposed East & West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site, Reading Center, NY — CTM OBSERVER: R. Smaka

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	3	9	13	13	22	1.0'	Brown SILT, little fine sand, trace clay, occasional cobble & rock fragments (Moist)
		2	15	11	9	7	20	1.4'	- grades little coarse sand & gravel, occasional fine sand partings, no cobbles or rock fragments
5		3	8	8	8	12	16	1.2'	- grades trace to little clay, no partings (Moist to Wet)
		4	9	11	10	8	21	1.0'	- grades Brown-Gray mottled SILT, little fine sand, clay & coarse sand & gravel, occasional rock fragments
		5	3	3	5	4	8	1.0'	(Moist to Wet - Firm) ±8'
10									Brown fine to medium SAND, Some Silt, little clay,
		6	1	4	6	7	10	0.4'	frequent cobble fragments (Moist to Wet)
									- grades little silt, trace clay & gravel (Wet) ±10'
		7	6	13	20	20	33	1.4'	- grades fine to coarse SAND, trace to little silt, trace gravel, no clay
15									- occasional seams of SILT, little coarse sand & gravel (Moist to Wet)
									(Moist to Wet - Loose to Compact)
									End of Boring @ 14'
20									
25									
30									

NOTES

Note 1: Upon completion of SB2012-39, a groundwater monitoring well was installed. See monitoring well installation log 'MW2012-39' for well installation details.

N = NO. OF BLOWS TO DRILL 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550-X rubber tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-51
ELEV.: **DATUM:**
START DATE: 04/04/2013 **FINISH DATE: 04/09/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	2	2	3	4	1.2'	TOPSOIL (±12")
									Brown fine SAND, little silt, trace coarse sand & gravel, frequent rock fragments
									(Moist - Loose) ±3.5'
5									
		2	13	13	23	30	36	1.5'	Brown SILT, little to Some Clay, trace to little fine sand, trace gravel
									(Moist - Hard) ±8.5'
10									
		3	9	50/0.2	–	–	100+	0.5'	GLACIAL TILL: Brownish-Gray fine SAND, little silt, embedded coarse sand & gravel, occasional rock & cobble fragments (Moist)
15									
		4	18	26	30	29	56	1.8'	- grades Gray, frequent rock & cobble fragments
20									
		5	22	39	43	42	82	1.9'	
25									
		6	12	12	14	19	26	1.5'	- becomes layer of Gray SILT, little to Some coarse Sand & Gravel, little clay, occasional rock fragments (Moist)
30									

NOTES

Note 1: Upon completion of SB2013-51, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-51' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-51
ELEV.: **DATUM:**
START DATE: 04/04/2013 **FINISH DATE: 04/09/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	20	32	50/0.3	–	100+	1.0'	Severely weathered ROCK fragments	
35		8	43	50/0.4	–	–	100+	0.5'	- becomes (Wet)	
40		Run 1							Moderate to severely weathered, medium hard, medium bedded Gray SHALE with close to very close fracture spacing, occasional vertical fractures	Run 1: 39.5' - 42.0' HQ - size core Recovery = 30"
		Run 2							- becomes very close fracture spacing	Run 2: 42.0' - 47.0' HQ - size core Recovery = 60"
45										
		Run 3							- becomes very close to close fracture spacing	Run 3: 47.0' - 50.0' HQ - size core Recovery = 36"
50									End of Boring @ 50.0' (Auger Refusal @ ±39.5')	
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-52
ELEV.: **DATUM:**
START DATE: 04/11/2013 **FINISH DATE: 04/15/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	2	2	5	5	1.4'	TOPSOIL (±6")
									Brown SILT, little to Some Clay, little coarse sand & gravel
									(Moist - Soft) ±3.5'
5		2	8	8	5	13	13	1.5'	Brown fine SAND, little silt & gravel, occasional partings of fine to coarse sand
									(Moist to Wet - Firm) ±8.5'
10		3	16	10	18	14	28	1.5'	Gray SILT, little to Some Clay, trace gravel (Moist)
15		4	12	18	15	23	33	1.8'	- becomes GLACIAL TILL: Gray SILT, little to Some Clay, little embedded fine to coarse sand & gravel, occasional rock fragments
20		5	17	22	24	27	46	0.6'	- grades Some fine Sand
25		6	13	35	30	33	65	1.6'	- becomes fine SAND, little silt, trace clay
30									

NOTES

Note 1: Upon completion of SB2013-52, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-52' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-52
ELEV.: **DATUM:**
START DATE: 04/04/2013 **FINISH DATE: 04/09/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	31	34	32	50/0.4	66	1.5'	(Moist - Firm to Very Compact) ±31.0'	
									Severely to completely weathered ROCK fragments (Wet)	
35		8	50/0.1	–	–	–	100+	0.1'	- severely weathered ROCK fragments	
40		9	50/0.2	–	–	–	100+	0.1'		Run 1: 40.5' - 45.5 HQ - size core Recovery = 57"
		10	50/0	–	–	–	100+	NR	Moderately weathered, medium hard, thinly bedded Gray SHALE with close to very close fracture spacing	
		Run 1							- severely weathered seam ±41.5' - 42.1'	Run 2: 45.5' - 50.5' HQ - size core Recovery = 60"
45		Run 2							- becomes moderate to severely weathered, occasional vertical fractures	
50		Run 3								Run 3: 50.5' - 51.5' HQ - size core Recovery = 11"
55									End of Boring @ 51.5' (Auger & Sampler Refusal @ ±40.5')	
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-53
ELEV.: **DATUM:**
START DATE: 04/11/2013 **FINISH DATE: 04/11/2013**
SHEET 1 OF 1

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	WH	1	4	4	5	1.1'	TOPSOIL (±3")
									Reddish-Brown SILT, Some Clay, little fine sand, occasional rock fragments
									(Moist - Soft) ±3.5'
5									
		2	7	9	14	20	23	1.5'	Brown fine SAND, little silt & clay, occasional rock and cobble fragments
									(Moist - Firm) ±8.5'
10									
		3	3	8	10	7	18	0.8'	Brown fine to coarse SAND, little silt, occasional rock fragments
									(Wet - Firm) ±13.5'
15									
		4	2	3	9	8	12	0.8'	Gray fine SAND, Some Silt, little coarse sand & gravel, trace to little clay, frequent rock fragments (Moist)
		5	13	17	13	19	30	0.3'	- frequent cobble fragments
20		6	5	8	15	18	23	0.9'	- grades little to Some Silt, occasional rock and cobble fragments
		7	16	18	18	25	36	0.7'	- grades little clay
		8	8	13	50/0.4	–	100+	0.4'	- grades frequent rock fragments
25									
		9	27	25	36	41	61	1.0'	- grades little silt, trace clay
									(Moist - Firm to Very Compact)
									End of Boring @ 27'
30									

NOTES

Note 1: WH = weight of drill rods and hammer required to advance sampler 6 inches.

Note 2: Upon completion of SB2013-53, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-53' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-54
ELEV.: **DATUM:**
START DATE: 04/15/2013 **FINISH DATE: 04/16/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
		1	1	3	5	5	8	0.4'	TOPSOIL (±3")
									Reddish-Brown fine SAND & SILT, little coarse sand & gravel, trace clay, frequent rock fragments (Moist - Loose) ±3.5'
5		2	16	9	12	21	21	2.0'	Brownish-Gray fine SAND, Some Silt, trace to little coarse sand & gravel, occasional rock fragments (Moist - Firm) ±8.5'
10		3	5	6	7	7	13	1.1'	Gray fine to medium SAND, trace silt & gravel (Wet)
15		4	6	10	8	12	18	1.0'	- grades fine SAND, no gravel (Wet - Firm) ±15.7'
									Gray fine SAND, Some Silt, little coarse sand & gravel, trace to little clay (Moist to Wet)
20		5	15	21	24	19	45	1.2'	- becomes GLACIAL TILL: Gray fine SAND, little silt, embedded coarse sand & gravel, trace clay, occasional rock fragments (Moist)
25		6	17	41	41	47	82	1.4'	- grades no clay
30									

NOTES

Note 1: Upon completion of SB2013-52, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-52' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550 Rubber-Tired ATV Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-54
ELEV.: **DATUM:**
START DATE: 04/15/2013 **FINISH DATE: 04/16/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		7	24	38	28	53	66	1.9'	GLACIAL TILL: Gray fine SAND, Some Silt, little to Some embedded coarse Sand & Gravel, little clay, frequent rock fragments (Moist)	
									- seams of highly weathered rock ±31.0' - 31.3', 31.7' - 31.9' (Moist)	
35		8	50/0.4	–	–	–	100+	0.4'	(Moist - Compact to Very Compact)	
									Severely weathered ROCK fragments	
		Run 1							Severe to moderately weathered, medium hard, thin to medium bedded Gray SHALE with very close to close fracture spacing	Run 1: 36.0' - 41.0 HQ - size core Recovery = 60"
40									- soil seam ±36.4' - 36.6'	
									- severely weathered seam ±45.0' - 45.3'	
		Run 2							- severely weathered seam ±46.0 - 46.4'	Run 2: 41.0' - 46.0' HQ - size core Recovery = 60"
45										
		Run 3							- becomes close fracture spacing	Run 3: 46.0' - 48.0' HQ - size core Recovery = 24"
									End of Boring @ 48.0' (Auger Refusal @ ±36.0', Sampler Refusal @ ±35.4')	
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550 Rubber-Tired ATV Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-54A
ELEV.: **DATUM:**
START DATE: 04/25/2013 **FINISH DATE: 04/26/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION
5									
10									
		1	3	4	4	6	8	1.4'	Brown fine to medium SAND, little gravel, trace silt, occasional rock fragments (Wet to Saturated - Loose) ±11.0'
15									Gray fine SAND, little silt, trace gravel (Wet) (Wet - Loose) ±16.0'
20									
		2	8	8	9	6	17	0.9'	Gray fine SAND, little silt, coarse sand & gravel, trace clay (Moist)
25									
30									

NOTES

Note 1: GW monitoring well installation @ MW2013-54 abandoned due to improper installation. Hole offset ±40' south of original location & redrilled as 'SB/MW2013-54A'.

Note 2: Upon completion of SB2013-54A, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-54A' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-54A
ELEV.: **DATUM:**
START DATE: 04/25/2013 **FINISH DATE: 04/26/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		3	14	33	50/0.4'	–	100+	1.2'	Severely weathered ROCK fragments	
35		4	26	50/0.4'	–	–	100+	0.9'		
		5	50/0	–	–	–	100+	NR	Severely weathered, medium hard, thinly bedded Gray SHALE with close to very close fracture spacing, occasional vertical fractures	
40		Run 1								Run 1: 37.0' - 41.0' HQ - size core Recovery = 47"
		Run 2							- becomes moderately to severely weathered	Run 2: 41.0' - 46.0' HQ - size core Recovery = 60"
45										
		Run 3								Run 3: 46.0' - 49.0' HQ - size core Recovery = 36"
50									End of Boring @ 49.0' (Auger & Sampler Refusal @ 37.0')	
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 Track-Mounted Drill Rig

METHOD OF INVESTIGATION: 4-1/4 inch Hollow Stem Augers with Automatic Safety Hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-55
ELEV.: **DATUM:**
START DATE: 04/16/2013 **FINISH DATE: 04/17/2013**
SHEET 1 OF 1

PROJECT: Proposed East and West Brine Ponds CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION
		1	4	3	5	12	8	1.2'	TOPSOIL (±6")
									Brown SILT, Some fine Sand, little clay, frequent rock fragments
									(Moist - Medium Stiff to Stiff) ±3.5'
5									
		2	8	12	9	8	21	1.5'	Brown fine SAND, Some Silt, little clay, frequent rock fragments (Moist)
10									
		3	3	5	7	6	12	1.6'	- grades little silt, no clay or rock fragments
									(Moist to Wet - Firm) ±11.0'
									Brown fine SAND, Some Silt, trace clay (Moist)
15									
		4	20	19	32	30	51	1.1'	- becomes GLACIAL TILL: Gray fine SAND, little silt, embedded coarse sand & gravel, trace clay, occasional rock & cobble fragments
		5	21	37	43	42	80	1.5'	- grades trace to little silt, no clay
20									
		6	22	34	50/0.2	–	100+	0.9'	
									(Moist - Very Compact)
									End of Boring @ 22.0'
									(Sampler Refusal ±21.2')
25									
30									

NOTES

Note 1: Upon completion of SB2013-55, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-55' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550 track mounted ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:

T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-56
ELEV.: **DATUM:**
START DATE: 04/17/2013 **FINISH DATE: 04/18/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION
		1	2	3	7	7	10	1.1'	TOPSOIL (±3")
									Brown fine SAND, little silt, coarse sand and gravel, trace clay, occasional rock & cobble fragments
									(Moist - Loose) ±3.5'
5									
		2	4	5	7	12	12	1.1'	Brown fine to coarse SAND, little silt, trace clay
									(Wet - Firm) ±8.5'
10									
		3	3	4	4	3	8	1.0'	Brown fine SAND, Some Silt, little coarse sand & gravel, trace clay (Moist to Wet)
15									
		4	4	4	8	7	12	1.5'	- grades Gray, little clay, trace coarse sand & gravel, occasional cobble fragments
20									
		5	11	17	24	22	41	1.6'	- grades little silt, occasional rock fragments
25									
		6	25	36	48	50/0.4	84	1.6'	- becomes GLACIAL TILL: Brown fine SAND, little silt, embedded coarse sand & gravel, occasional rock fragments (Moist)
30									

NOTES

Note 1: Hole offset 12', NE of staked location

Note 2: Upon completion of SB2013-56, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-56' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550 rubber-tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer, and NX size core barrel

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-56
ELEV.: **DATUM:**
START DATE: 04/17/2013 **FINISH DATE: 04/18/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION	NOTES
		7	28	50	50/0.3	–	100+	1.2'	GLACIAL TILL: Gray fine SAND, little to Some embedded coarse Sand & Gravel, little silt, occasional rock fragments (Moist - Very Compact) ±31.0'	
35		8	50/0.1	–	–	–	100+	NR		Run 1: 34.5' - 36.1'
		Run 1							Severely weathered, medium hard, thinly bedded Gray SHALE with very close to close fracture spacing	HQ - size core Recovery = 26"
		Run 2								
40									- becomes very close fracture spacing with occasional vertical fractures ±36.1'	Run 2: 36.1' - 41.1' HQ - size core Recovery = 60"
		Run 3								Run 3: 41.1' - 45.1' HQ - size core
45										Recovery = 48"
									End of Boring @ 45.1' (Auger Refusal ±34.5')	
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550 rubber-tired ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
4/18	13.7'		15 hrs

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-56A
ELEV.: **DATUM:**
START DATE: 04/23/2013 **FINISH DATE: 04/24/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION
5									
10									
		1	2	4	4	3	8	1.8'	Brown fine to medium SAND, trace to little silt, little gravel, occasional rock fragments
									(Wet to Saturated - Loose) ±13.5'
15									
20									
		2	22	21	19	24	40	1.8'	GLACIAL TILL: Gray fine SAND, little embedded coarse sand & gravel, trace to little silt, occasional rock fragments (Moist)
25									
30									

NOTES

Note 1: Groundwater monitoring well installation @ MW2013-56 abandoned due to improper installation. Hole offset ±10' north of original location & redrilled as 'SB/MW2013-56A'.

Note 2: Upon completion of SB2013-56A, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-56A' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 track mounted ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer, and NX size core barrel

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-56A
ELEV.: **DATUM:**
START DATE: 04/23/2013 **FINISH DATE: 04/24/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION	NOTES
		3	37	50/0.4	–	–	100+	0.6'	Glacial Till: Gray fine SAND, little to Some embedded coarse Sand & Gravel, little silt, occasional rock fragments (Moist - Very Compact) ±31.0'	
35		4	50/0.1	–	–	–	100+	0.1'	- severely weathered rock fragments	Run 1: 35.1' - 37.1' HQ - size core Recovery = 23"
		Run 1								
		Run 2							Severely weathered, medium hard, thinly bedded Gray SHALE with close fracture spacing	
40										Run 2: 37.1' - 42.1' HQ - size core Recovery = 58"
									- becomes very close fracture spacing	
		Run 3							- becomes occasional vertical fractures	Run 3: 42.1' - 46.1' HQ - size core Recovery = 48"
45										
									End of Boring @ 46.1' (Auger Refusal @ ±35.1')	
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 track mounted ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer, and NX size core barrel

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-57
ELEV.: **DATUM:**
START DATE: 04/17/2013 **FINISH DATE: 04/18/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION
		1	1	3	4	5	7	1.2'	TOPSOIL (±3")
									Brown SILT, little fine sand & clay, trace gravel (Moist)
5		2	8	9	9	10	18	1.9'	- grades Some fine Sand
									(Moist - Loose to Firm) ±8.5'
10		3	16	50/0.4	–	–	100+	0.9'	GLACIAL TILL: Brownish Gray fine SAND, little to Some Silt, little embedded coarse sand & gravel, trace clay, frequent cobble fragments (Moist to Wet)
15		4	29	50/0.3	–	–	100+	0.8'	- grades trace to little silt, no clay, occasional cobble fragments (Moist)
20		5	12	31	44	48	75	1.1'	- grades Gray, frequent cobble & rock fragments
25		6	50/0.4	–	–	–	100+	0.3'	- grades little silt
30									

NOTES

Note 1: Upon completion of SB2013-57, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-57' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 550 rubber tired ATV drill rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-57
ELEV.: **DATUM:**
START DATE: 04/17/2013 **FINISH DATE: 04/18/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION	NOTES
		7	29	50/0.4	–	–	100+	0.6'	GLACIAL TILL: Gray fine SAND, Some Silt, little embedded coarse sand & gravel, trace clay, occasional cobble fragments (Moist - Very Compact)	
35		8	50/0.2	–	–	–	100+	0.1'	- severely weathered rock fragments (Wet)	
		9	50/0	–	–	–	100+	NR	Moderate to severely weathered, medium hard, bedded Gray SHALE with close to very close fracture spacing, occasional vertical fractures	
40		Run 1								Run 1: 37.5' - 41.5' HQ - size core Recovery = 48"
		Run 2							- severely weathered seam ±42.7' - 43.2'	Run 2: 41.5' - 46.5' HQ - size core Recovery = 60"
45									- becomes moderately weathered ±46.5'	
		Run 3								Run 3: 46.5' - 48.3' HQ - size core Recovery = 22"
50									End of Boring @ 48.3' (Auger and Sampler Refusal ±37.5')	
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 track mounted ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer, and NX size core barrel

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-58
ELEV.: **DATUM:**
START DATE: 04/19/2013 **FINISH DATE: 04/23/2013**
SHEET 1 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION
		1	1	1	1	5	2	1.3'	TOPSOIL (±3")
									Light Brown SILT & fine SAND, little gravel, trace clay (Moist)
5		2	6	6	6	7	12	1.7'	- grades Brown, little fine to coarse sand & gravel, trace to little clay
									(Moist - Loose to Firm) ±8.5'
10		3	17	18	46	50/0.4	64	1.4'	GLACIAL TILL: Brown fine SAND, little embedded coarse sand & gravel, trace to little silt, frequent cobble fragments (Moist)
15		4	26	35	27	20	62	1.8'	- grades no cobble fragments - becomes Gray ±16.5'
20		5	9	11	9	12	20	1.4'	- grades little silt, no coarse sand or gravel
25		6	13	23	42	48	65	1.3'	- grades little embedded coarse sand & gravel, trace silt, frequent cobble fragments
30									

NOTES

Note 1: Upon completion of SB2013-58, a groundwater monitoring well was installed. See monitoring well installation log 'MW2013-58' for well installation details.

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 track mounted ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.: SB2013-58
ELEV.: **DATUM:**
START DATE: 04/19/2013 **FINISH DATE: 04/23/2013**
SHEET 2 OF 2

PROJECT: Proposed East and West Brine Ponds — CTM PROJECT NO.: 08.8696

LOCATION: West Pond Site; Reading Center, NY — CTM OBSERVER: J. Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N		SAMPLE CLASSIFICATION	NOTES
		7	45	50/0.4	–	–	100+	0.6'	GLACIAL TILL: Gray fine SAND, little to Some embedded coarse Sand and gravel, little silt, trace clay, occasional cobble fragments (Moist)	
		8	50/0.4	–	–	–	100+	0.3'		
35		9	25	44	48	50/0	92	1.8'	- grades frequent rock fragments	
									(Moist - Firm to Very Compact) ±38.5'	
40		10	50/0.1	–	–	–	100+	0.1'	- severely weathered ROCK fragments	
		11	50/0.1	–	–	–	100+	0.1'		
		Run 1							Severely weathered, medium hard, thinly bedded Gray SHALE with very close fracture spacing and occasional vertical fractures	Run 1: 41.6' - 46.6' HQ - size core Recovery = 60"
45										
		Run 2								Run 2: 46.6' - 51.6' HQ - size core Recovery = 60"
50										
									End of Boring @ 51.6' (Auger Refusal @ ±41.5', Sampler Refusal @ ±41.6')	
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: SJB Services, Inc.

DRILL RIG TYPE: CME 850 track mounted ATV rig

METHOD OF INVESTIGATION: 4-1/4-inch hollow stem augers with automatic safety hammer

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: T. Morgan

APPENDIX B

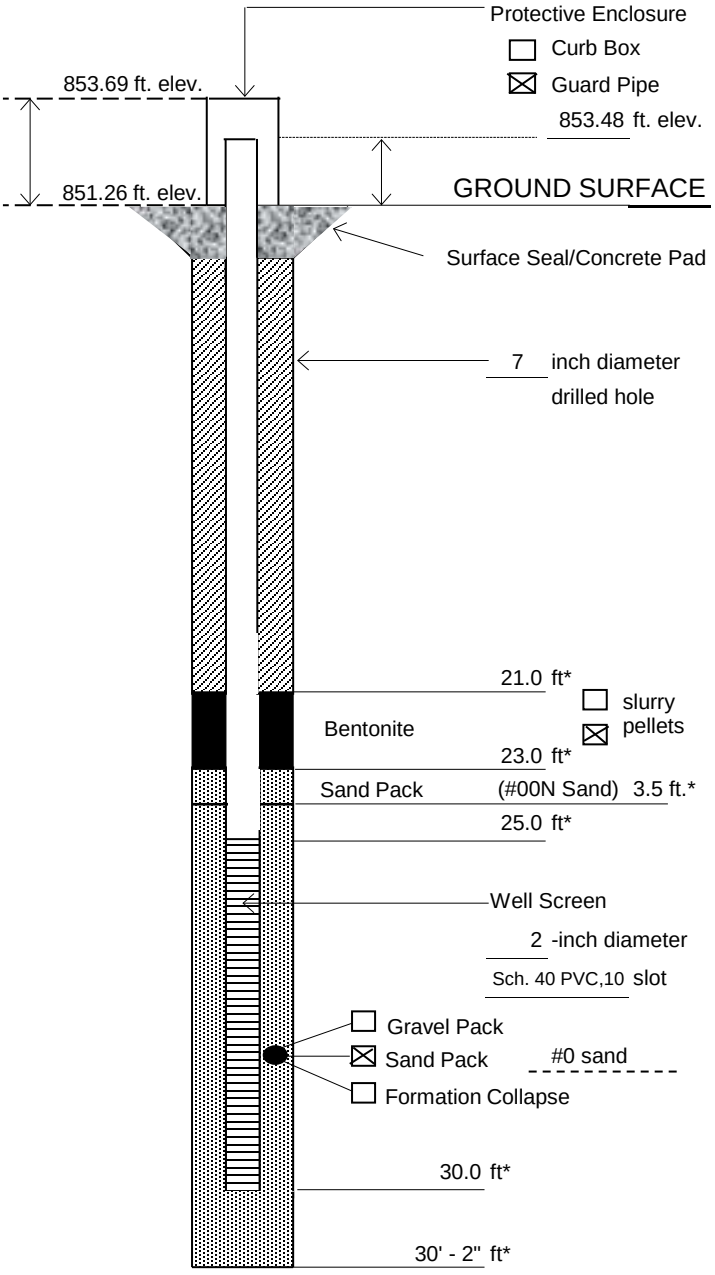
Monitoring Well Construction Logs

East Brine Pond

Well No. MW2012-22

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-22 Boring No. SB2012-22

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/18/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 12.41 ft 5/1/2012 (Date)

C.T. Male Observer T. Morgan

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3 bags

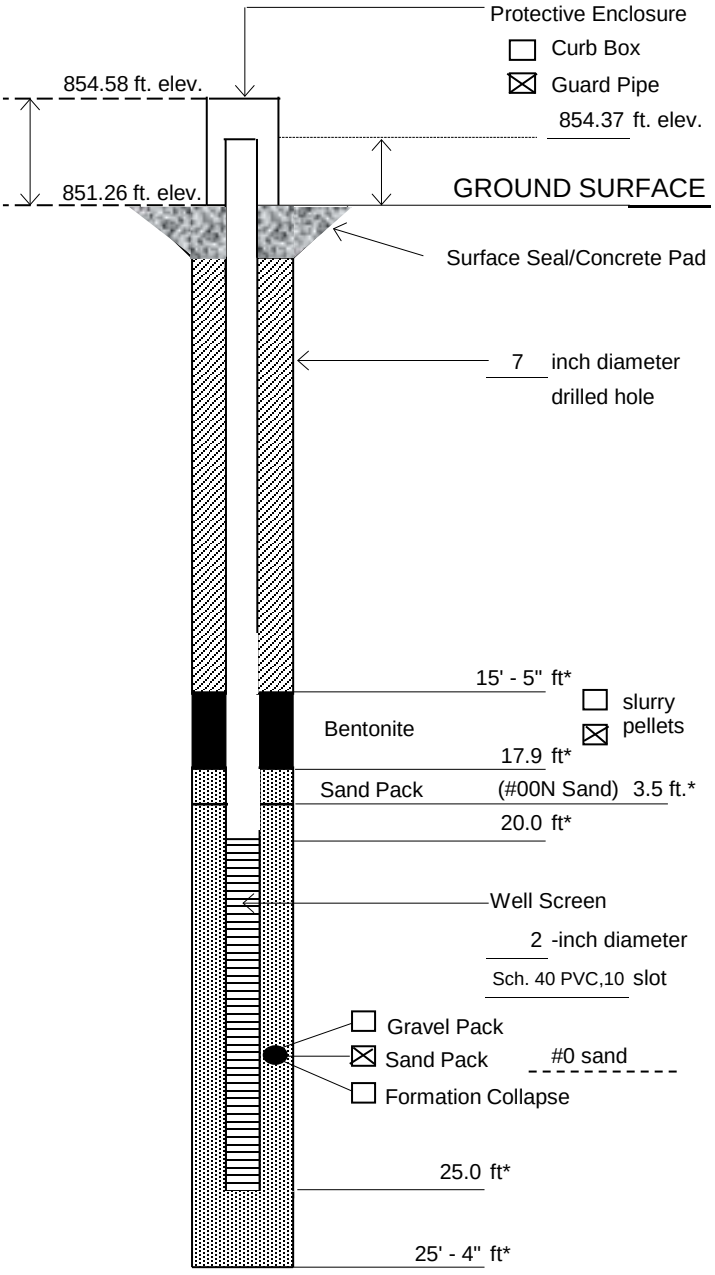
Cetco Pure Gold Medium Bentonite Chips
- 1/2 bag

Water level measured at 12.52 ft. below top of riser on 5/4/2012.

Well No. MW2012-23

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number	08.8696
Project Name	Proposed East & West Brine Ponds
Well No.	MW2012-23
Boring No.	SB2012-23
Town/City	Reading Center
County	Schuyler
State	NY
Installation Date(s)	4/19/2013
Drilling Contractor	SJB Services, Inc.
Drilling Method	4-1/4 inch Hollow Stem Augers
Water Depth From Top of Riser	13.66 ft — 5/1/2012 (Date)
C.T. Male Observer	T. Morgan

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3 bags

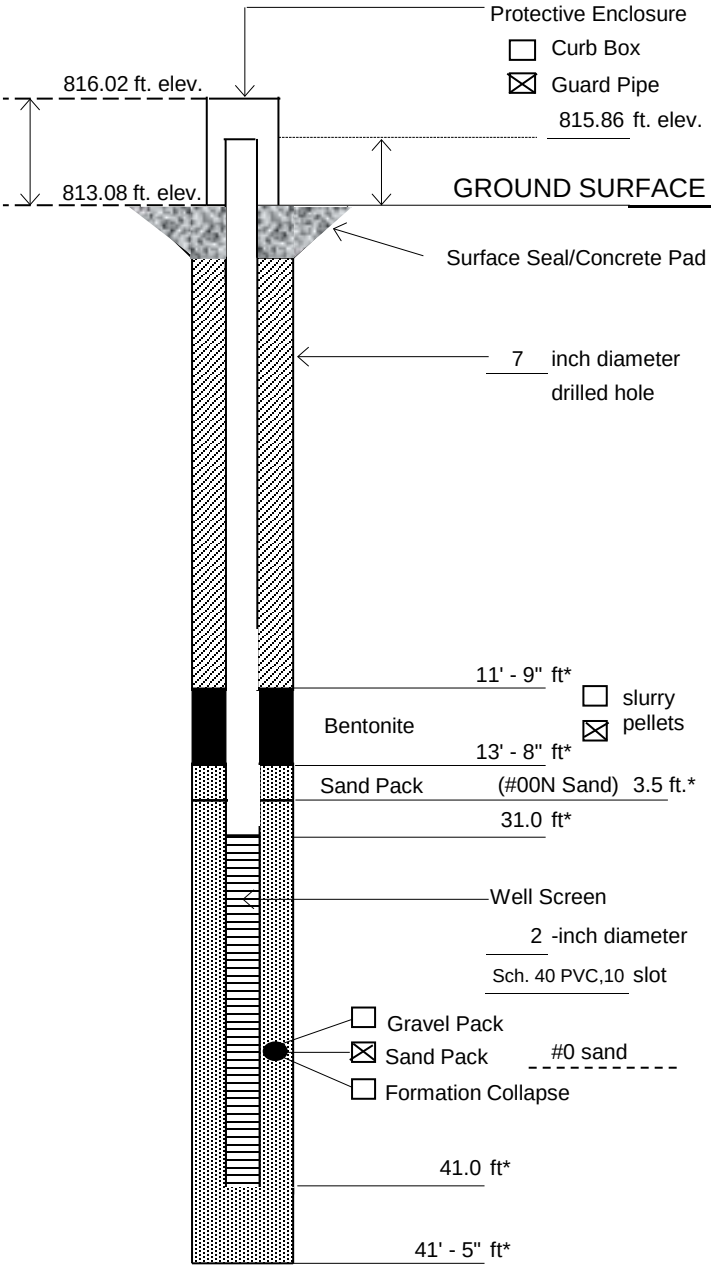
Cetco Pure Gold Medium Bentonite Chips
- 1/2 bag

Water level measured at 13.78 ft. below top of riser on 5/4/2012.

C.T. MALE ASSOCIATES

Well No. MW2012-24

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number	08.8696
Project Name	Proposed East & West Brine Ponds
Well No.	MW2012-24
Boring No.	SB2012-24
Town/City	Reading Center
County	Schuyler
State	NY
Installation Date(s)	4/19/2013 & 4/20/2012
Drilling Contractor	SJB Services, Inc.
Drilling Method	4-1/4 inch Hollow Stem Augers
Water Depth From Top of Riser	8.89 ft — 5/1/2012 (Date)
C.T. Male Observer	T. Morgan

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 12 bags

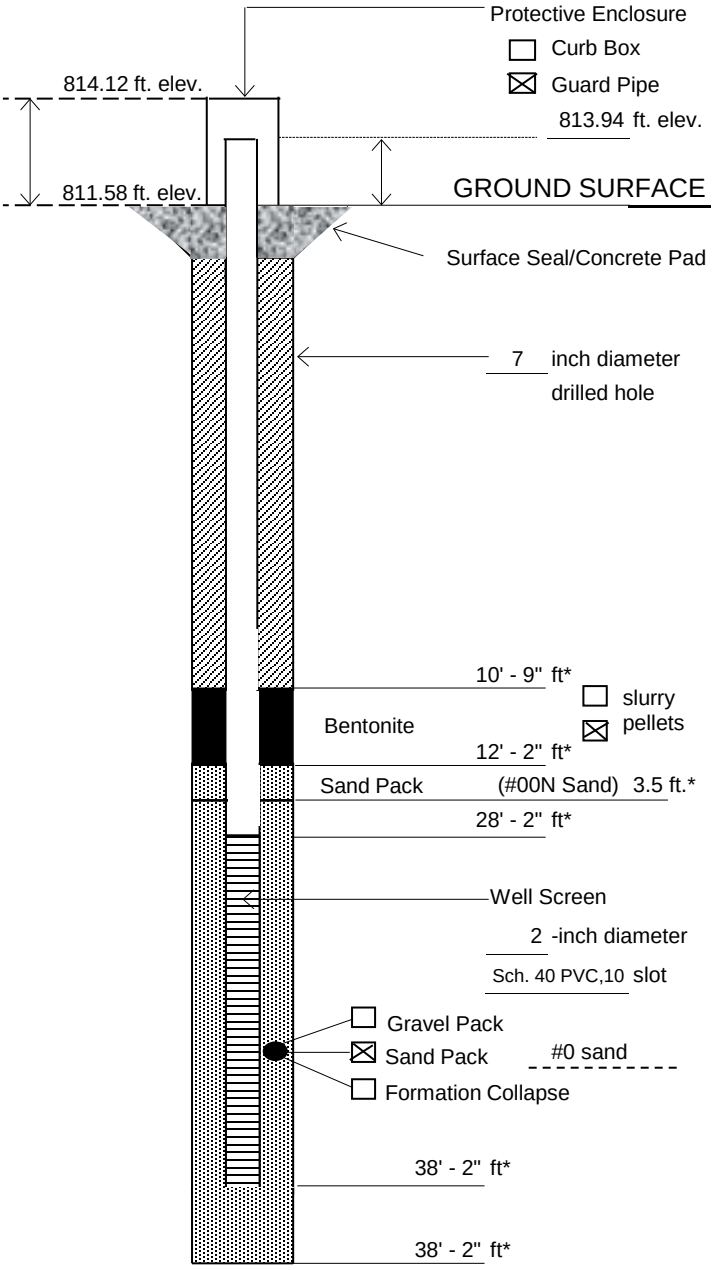
Cetco Pure Gold Medium Bentonite Chips
- 1/2 bag

Water level measured at 8.92 ft. below top of riser on 5/3/2012.

Well No. MW2012-25

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-25 Boring No. SB2012-25

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/23/2013 & 4/24/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 10.75 ft 5/1/2012 (Date)

C.T. Male Observer T. Morgan

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 14 bags

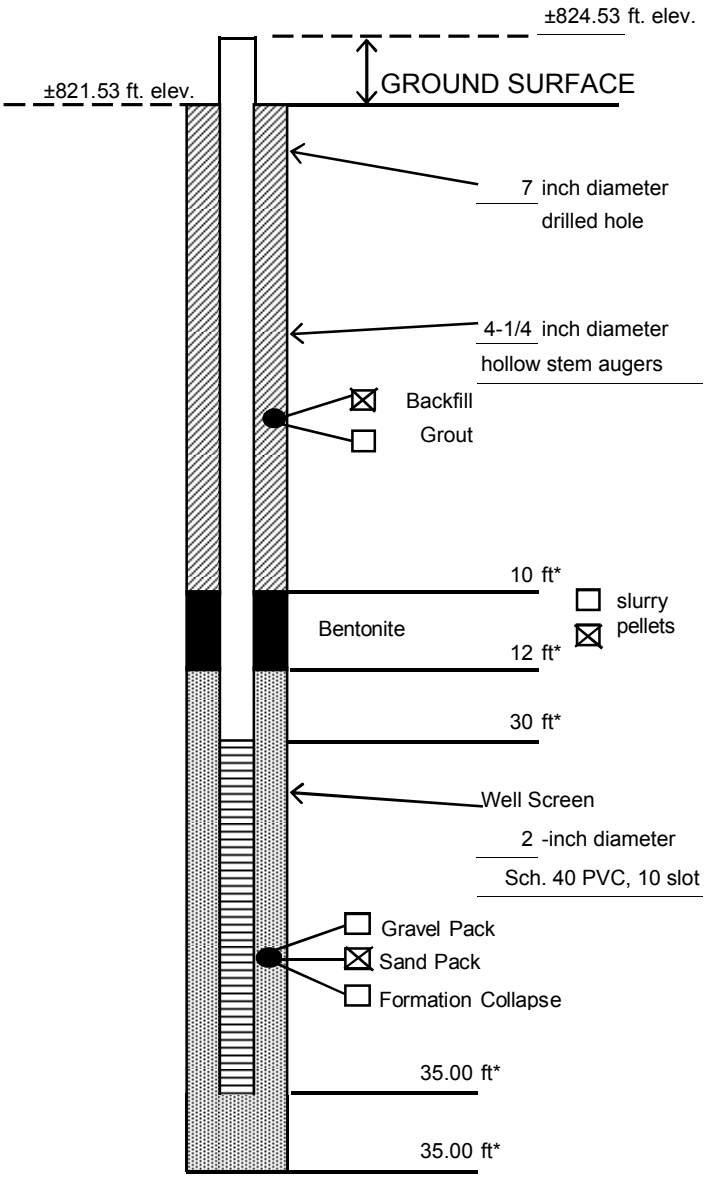
Cetco Pure Gold Medium Bentonite Chips
- 1/2 bag

Water level measured at 6.85 ft. below top of riser on 5/4/2012.

Well No. MW2012-30

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-30 Boring No. SB2012-30

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 6/18 - 6/19/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 4.5 ft 7/3/2012 Date

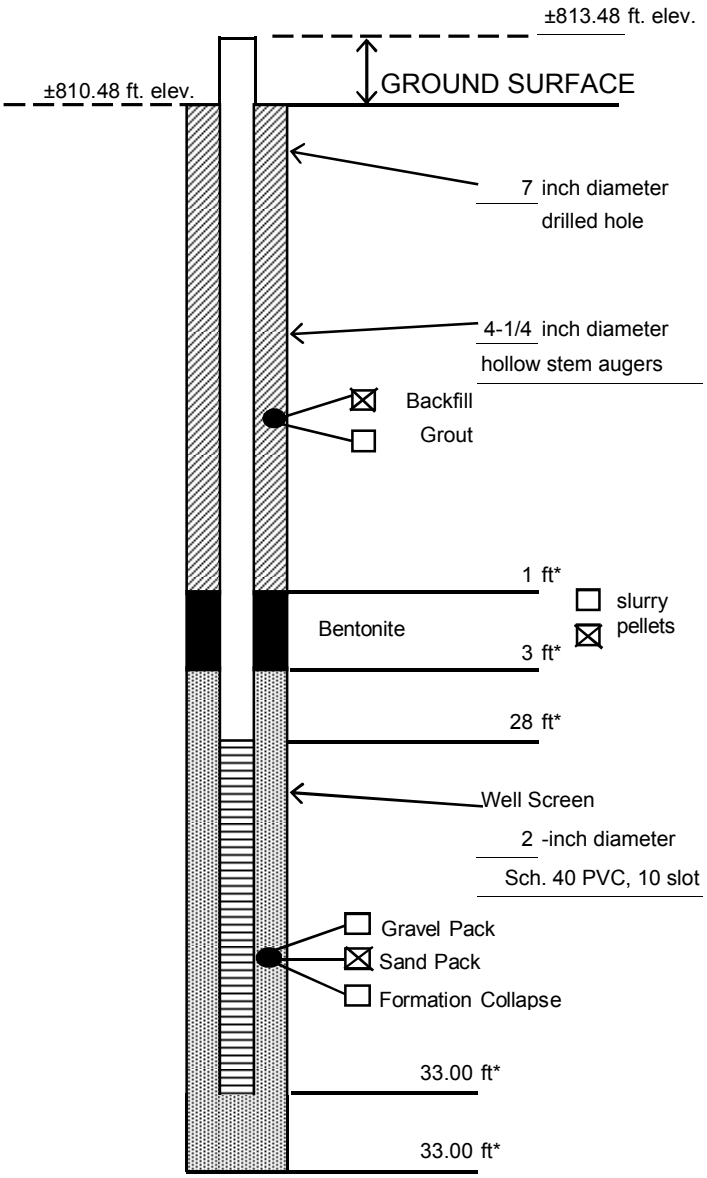
C.T. Male Observer R. Smaka

Notes:

Well No. MW2012-31

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

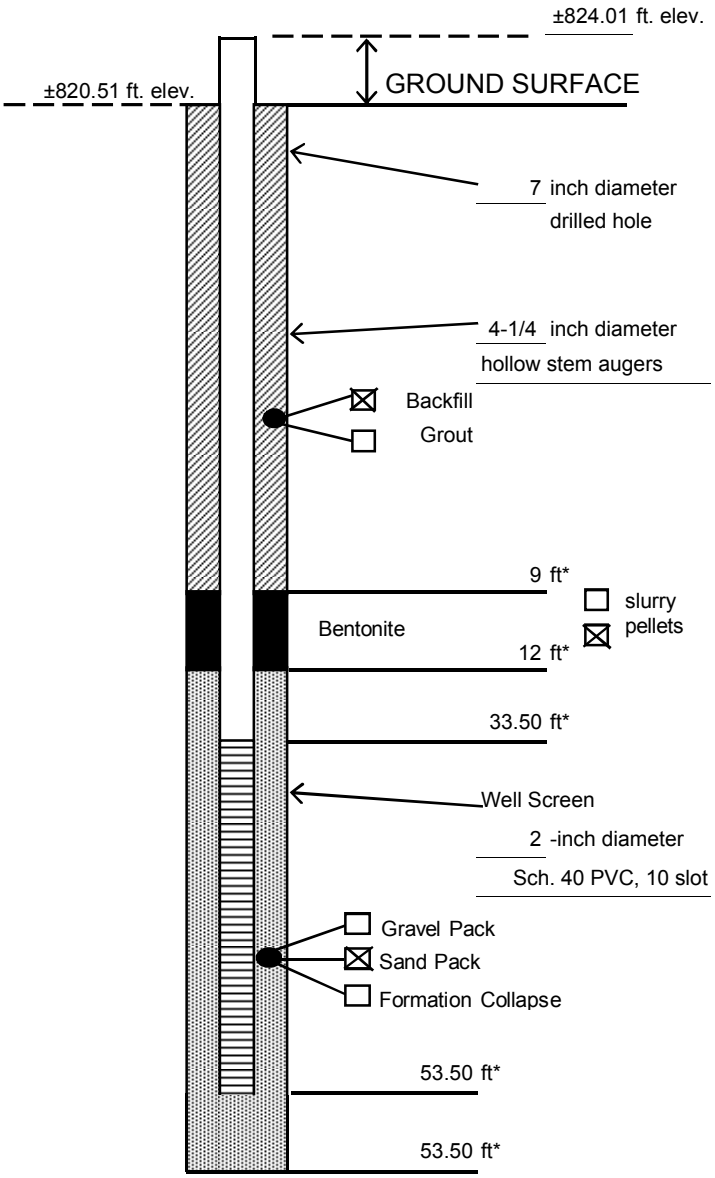
Project Number	08.8696
Project Name	Proposed East & West Brine Ponds
Well No.	MW2012-31
Boring No.	SB2012-31
Town/City	Reading Center
County	Schuyler
State	NY
Installation Date(s)	6/19 - 6/20/2012
Drilling Contractor	SJB Services, Inc.
Drilling Method	4-1/4 inch hollow stem augers
Water Depth From Top of Riser	6.7 ft 7/3/2012 (Date)
C.T. Male Observer	R. Smaka

Notes:

Well No. MW2012-32

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

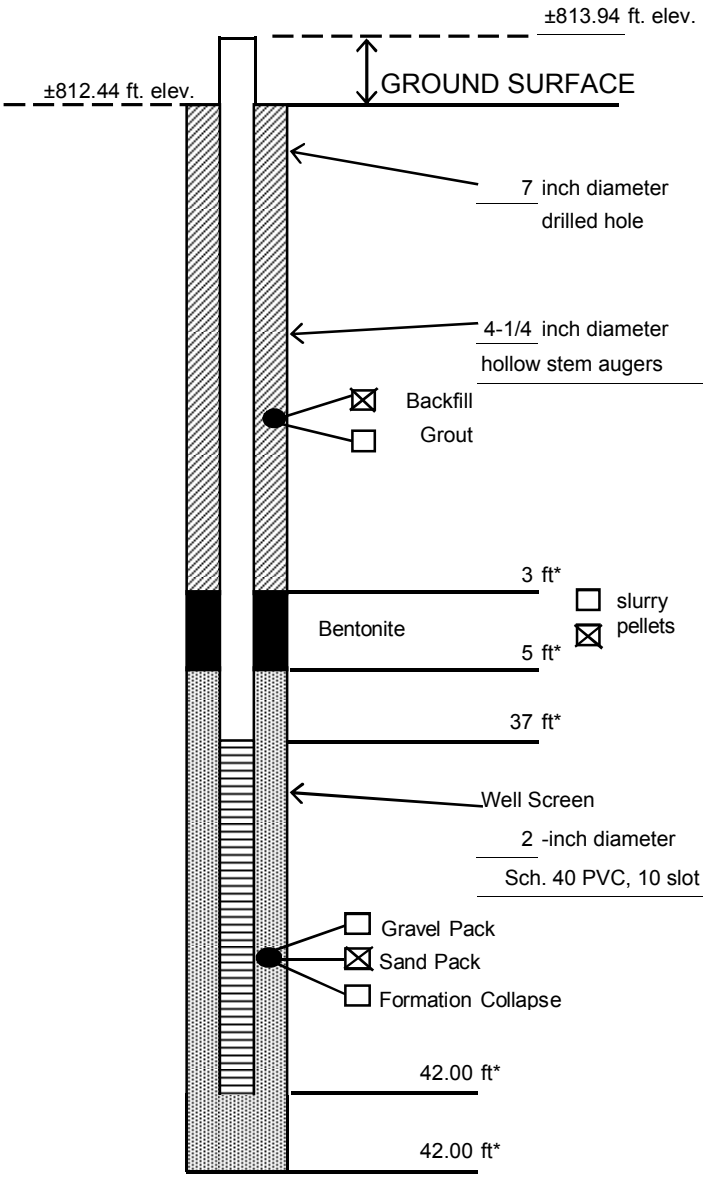
Project Number	08.8696
Project Name	Proposed East & West Brine Ponds
Well No.	MW2012-32
Boring No.	SB2012-32
Town/City	Reading Center
County	Schuyler
State	NY
Installation Date(s)	6/20 - 6/22/2012
Drilling Contractor	SJB Services, Inc.
Drilling Method	4-1/4 inch hollow stem augers
Water Depth From Top of Riser	5.7 ft — 7/3/2012 (Date)
C.T. Male Observer	R. Smaka

Notes:

Well No. MW2012-33

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-33 Boring No. SB2012-33

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 6/25 - 6/26/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 1.3 ft 7/3/2012 Date

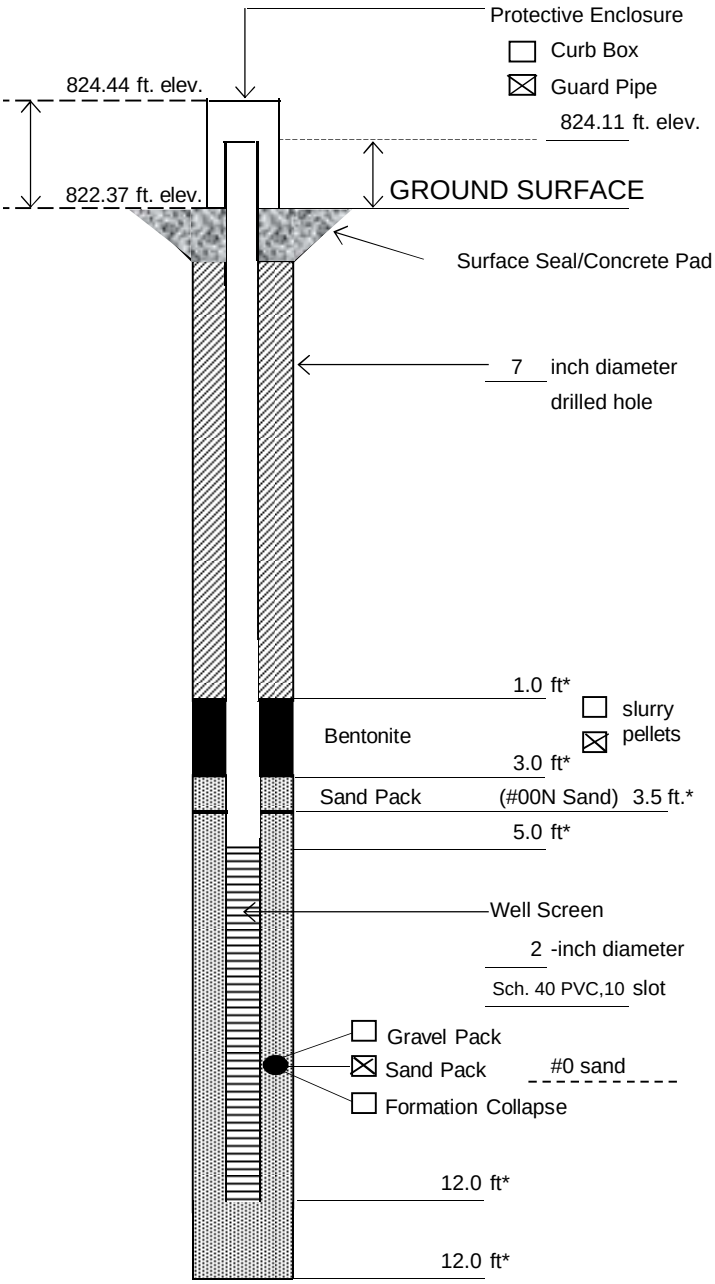
C.T. Male Observer R. Smaka

Notes:

Well No. MW2013-40

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-40 Boring No. SB2013-40

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/8/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 4.28 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3 bags

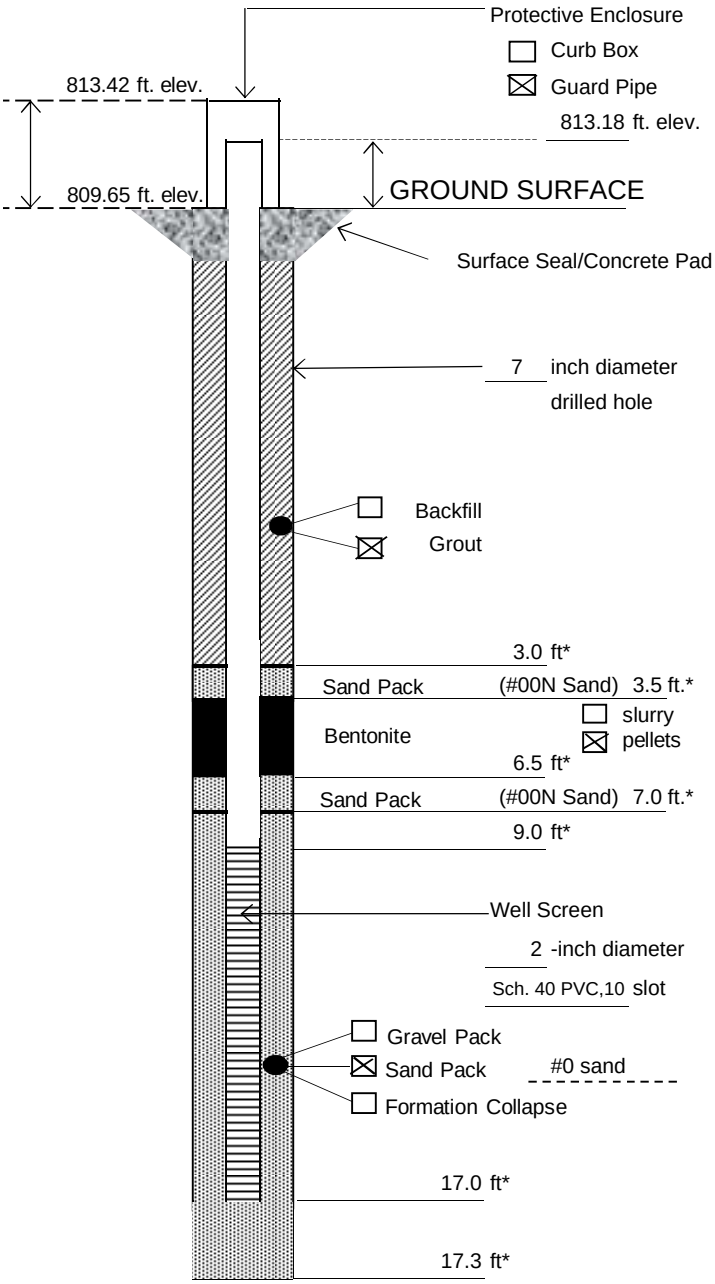
US Silica Company Industrial Quartz #00N Sand
- 1/4 bag

Cetco Pure Gold Medium Bentonite Chips
- 1/2 bag

Well No. MW2013-41

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-41 Boring No. SB2013-41

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/11/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 11.98 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 4 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

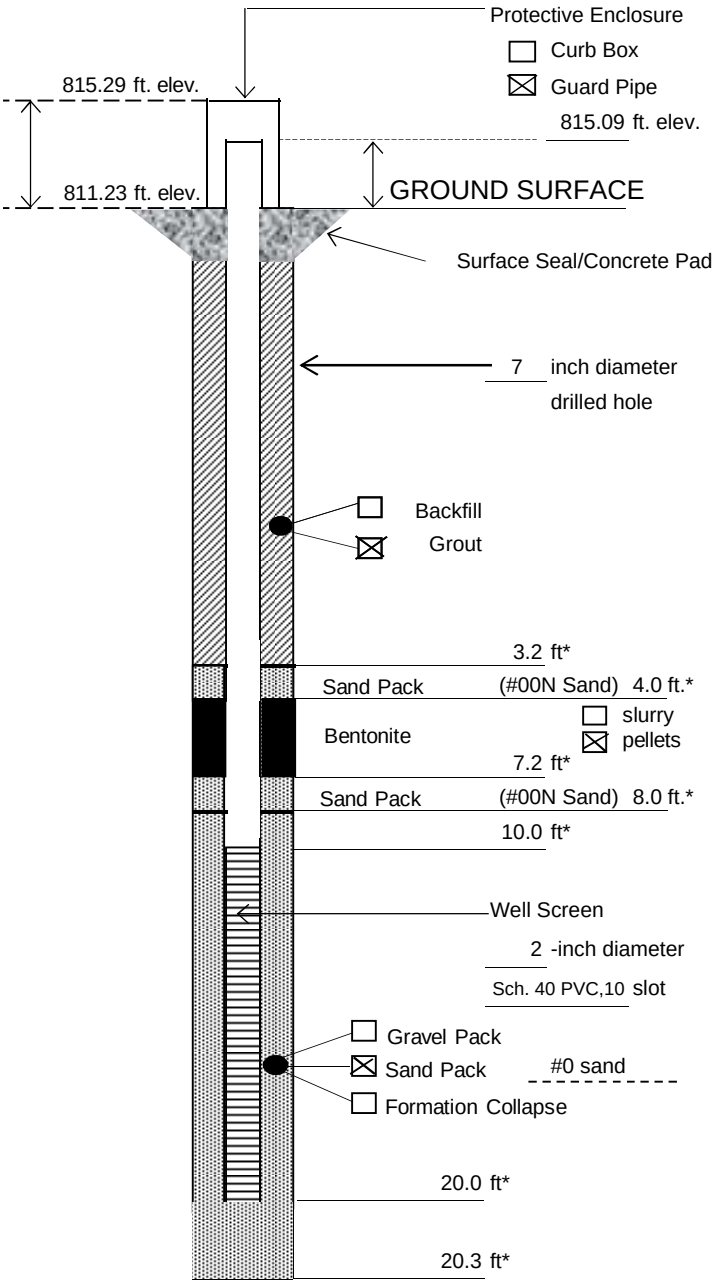
Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

Grout Mix
- 1/2 bag of Portland Cement
- 2 gals. water
- 1 lb. bentonite powder

Well No. MW2013-42

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-42 Boring No. SB2013-42

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/12/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 10.05 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3-1/2 bags

US Silica Company Industrial Quartz #00N Sand
- 1 bag

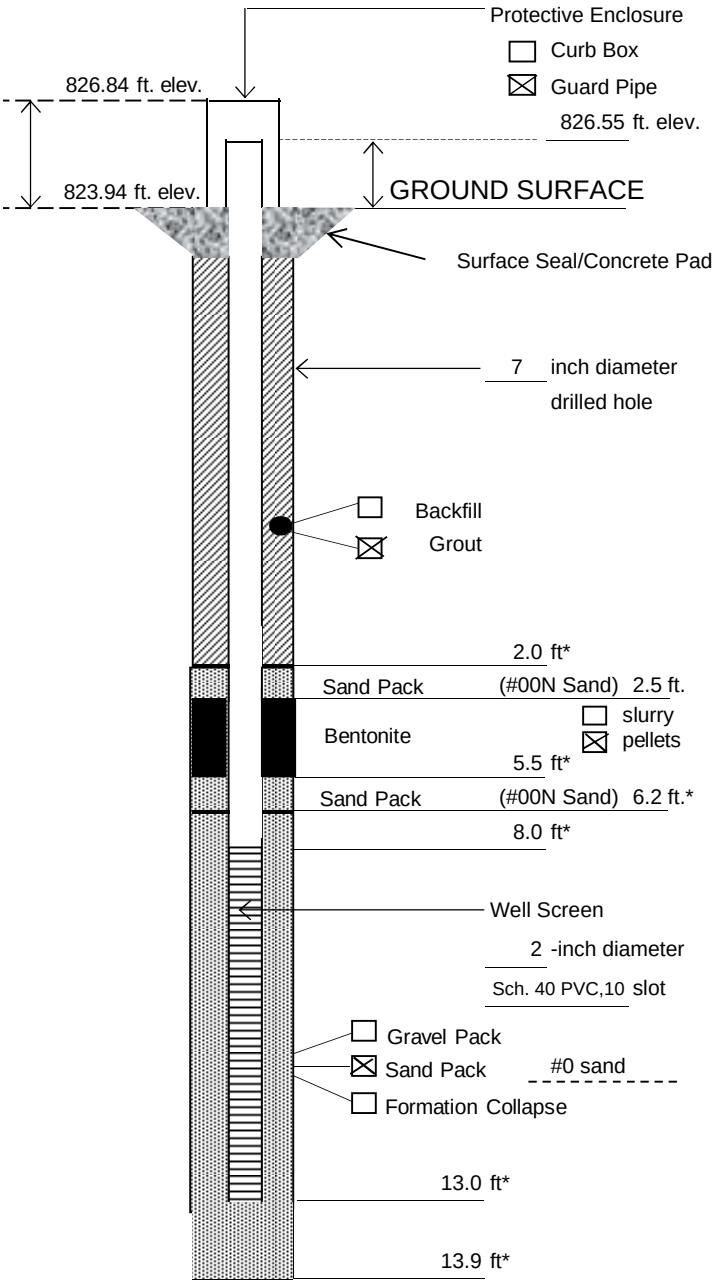
Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

Grout Mix
- 1/2 bag of Portland Cement
- 3 gals. water
- 1 lb. bentonite powder

Well No. MW2013-43

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-43 Boring No. SB2013-43

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/12/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 7.44 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 2 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

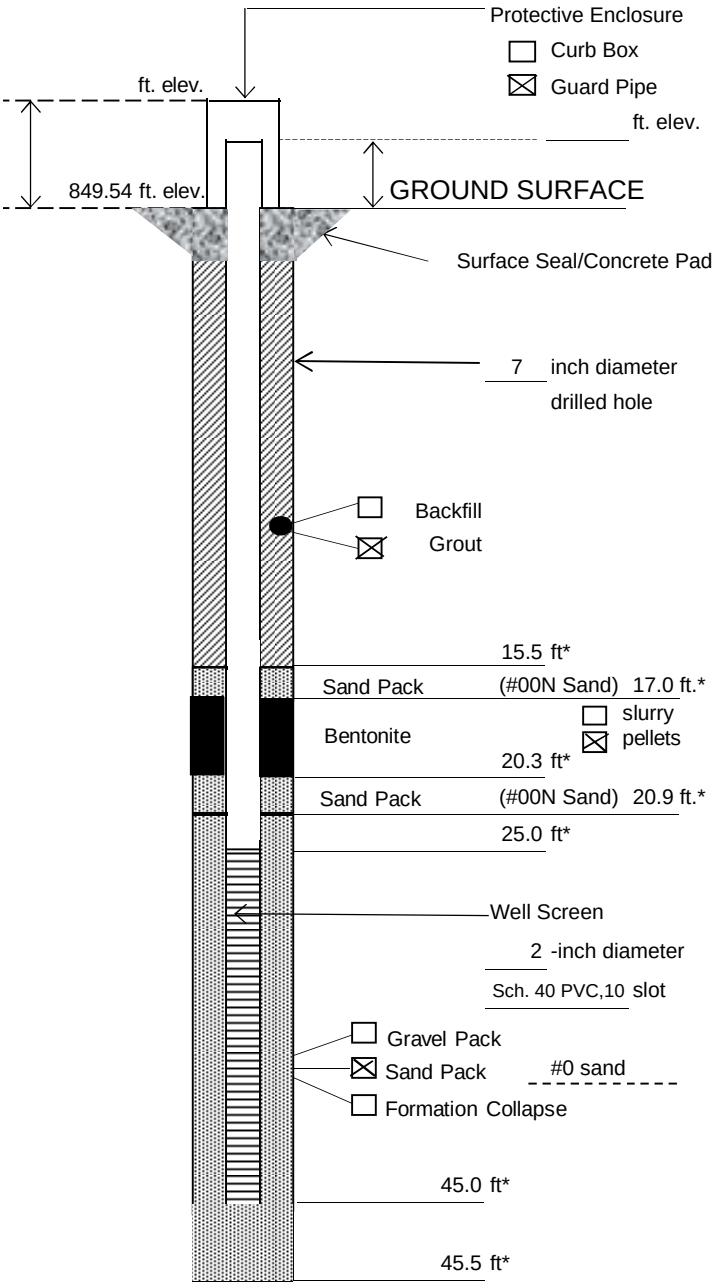
Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

Grout Mix
- 1/2 bag of Portland Cement
- 2 gals. water
- 2 lbs. bentonite powder

Well No. MW2013-44

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-44 Boring No. SB2013-44

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/14/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with NX size core

Water Depth From Top of Riser 12.06 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 26.5 ft., NX size rock coring performed from 26.5 ft. to 45.5 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

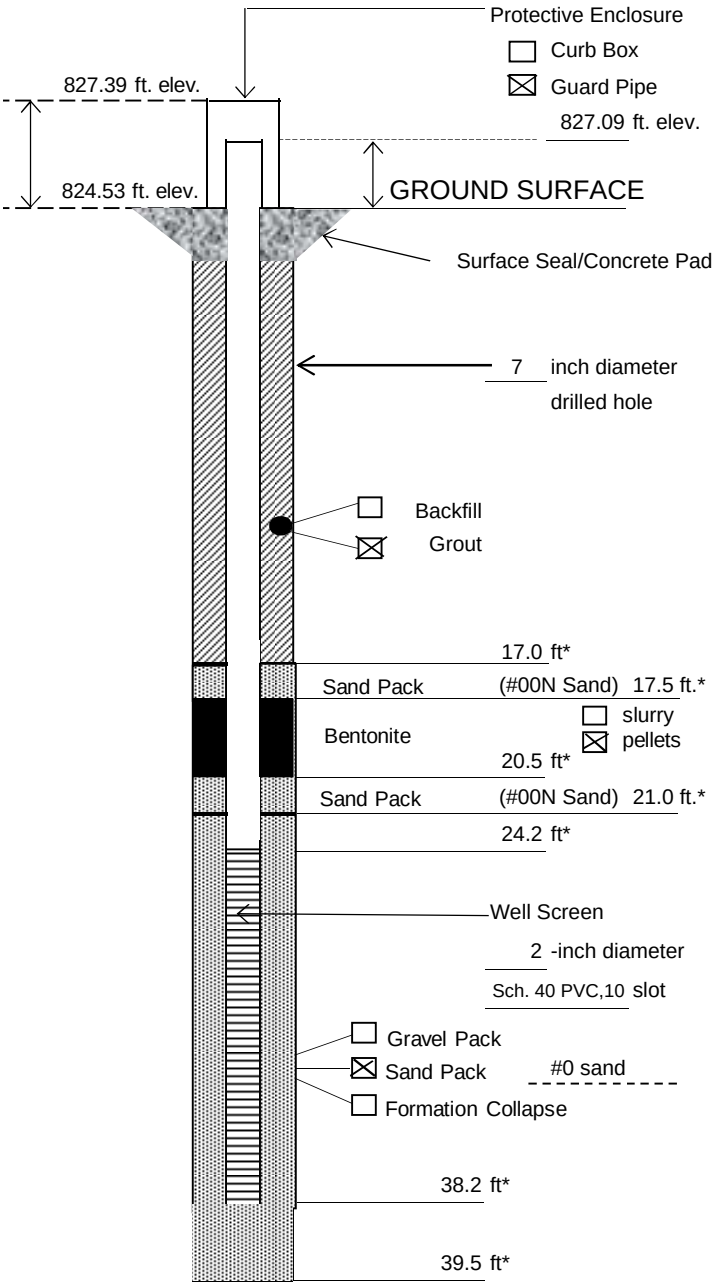
Cetco Pure Gold Medium Bentonite Chips
- 1 bag

Grout Mix
- 2 bags of Portland Cement
- 30 gals. water
- 10 lbs. bentonite powder

Well No. MW2013-45

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number	08.8696
Project Name	Proposed East & West Brine Ponds
Well No.	MW2013-45
Boring No.	SB2013-45
Town/City	Reading Center
County	Schuyler
State	NY
Installation Date(s)	3/18/2013
Drilling Contractor	SJB Services, Inc.
Drilling Method	4-1/4 inch Hollow Stem Augers with NX size core
Water Depth From Top of Riser	8.39 ft 5/3/2013 (Date)
C.T. Male Observer	J. Dippert

Notes:

Upon encountering auger refusal at 27.5 ft., NX size rock coring performed from 27.5 ft. to 39.5 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3-1/4 bags

US Silica Company Industrial Quartz #00N Sand
- 1/2 bag

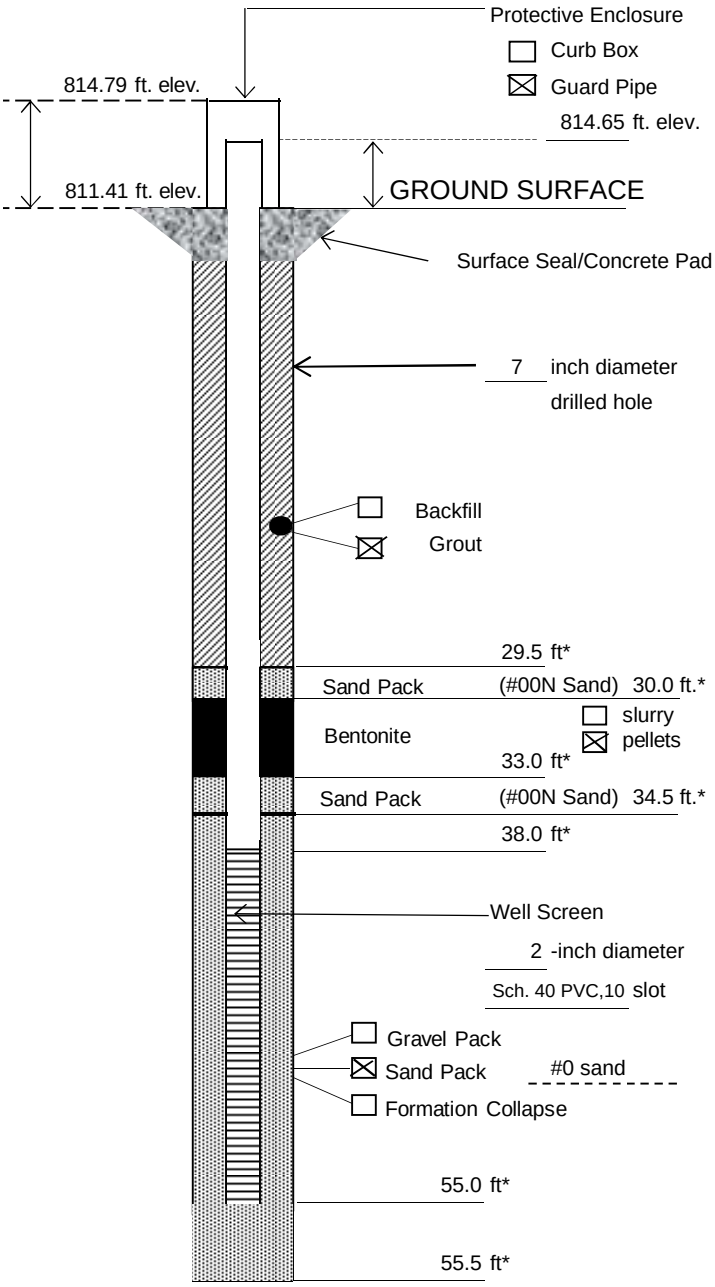
Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

Grout Mix
- 188 lbs. of Portland Cement
- 25 gals. water
- 25 lbs. bentonite powder

Well No. MW2013-46

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-46 Boring No. SB2013-46

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/21/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with NX size core

Water Depth From Top of Riser 14.11 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 40.5 ft., NX size rock coring performed from 40.5 ft. to 55.5 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 5 bags

US Silica Company Industrial Quartz #00N Sand
- 1 bag

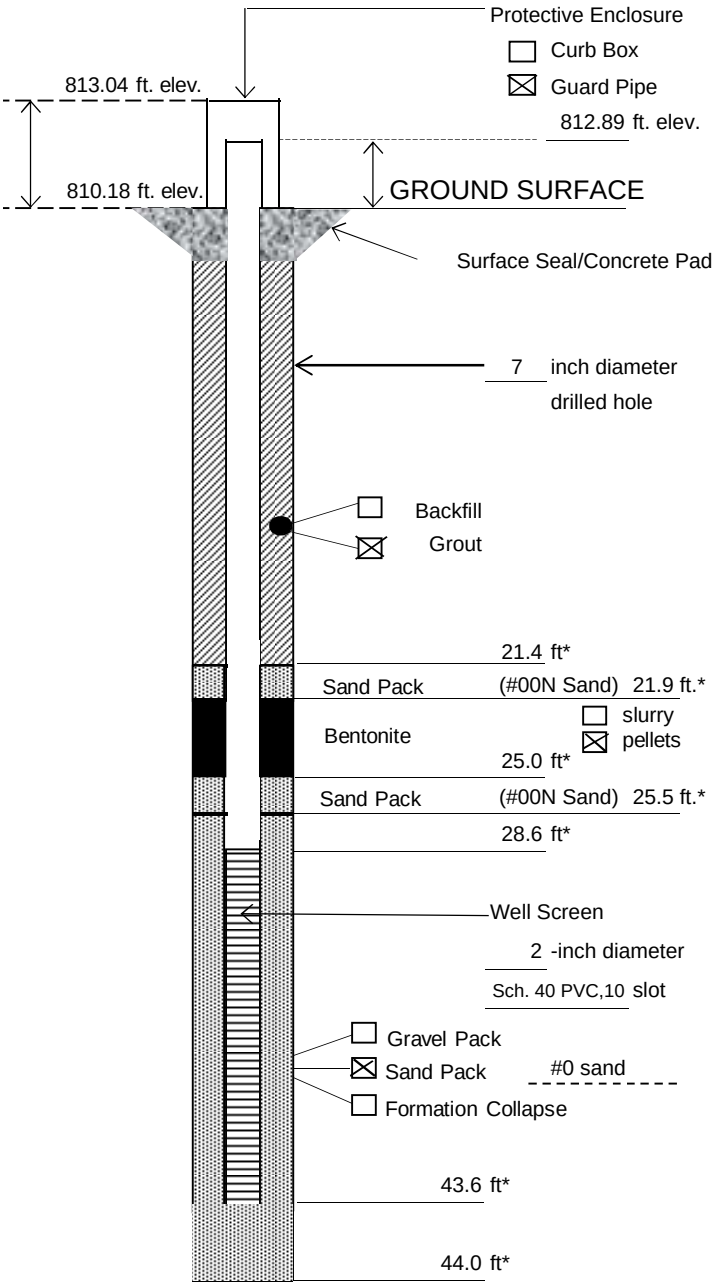
Cetco Pure Gold Medium Bentonite Chips
- 1 bag

Grout Mix
- 188 lbs. of Portland Cement
- 30 gals. water
- 25 lbs. bentonite powder

Well No. MW2013-47

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-47 Boring No. SB2013-47

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/26/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 11.03 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 30.8 ft., HQ size rock coring performed from 30.8 ft. to 44.0 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3-1/2 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

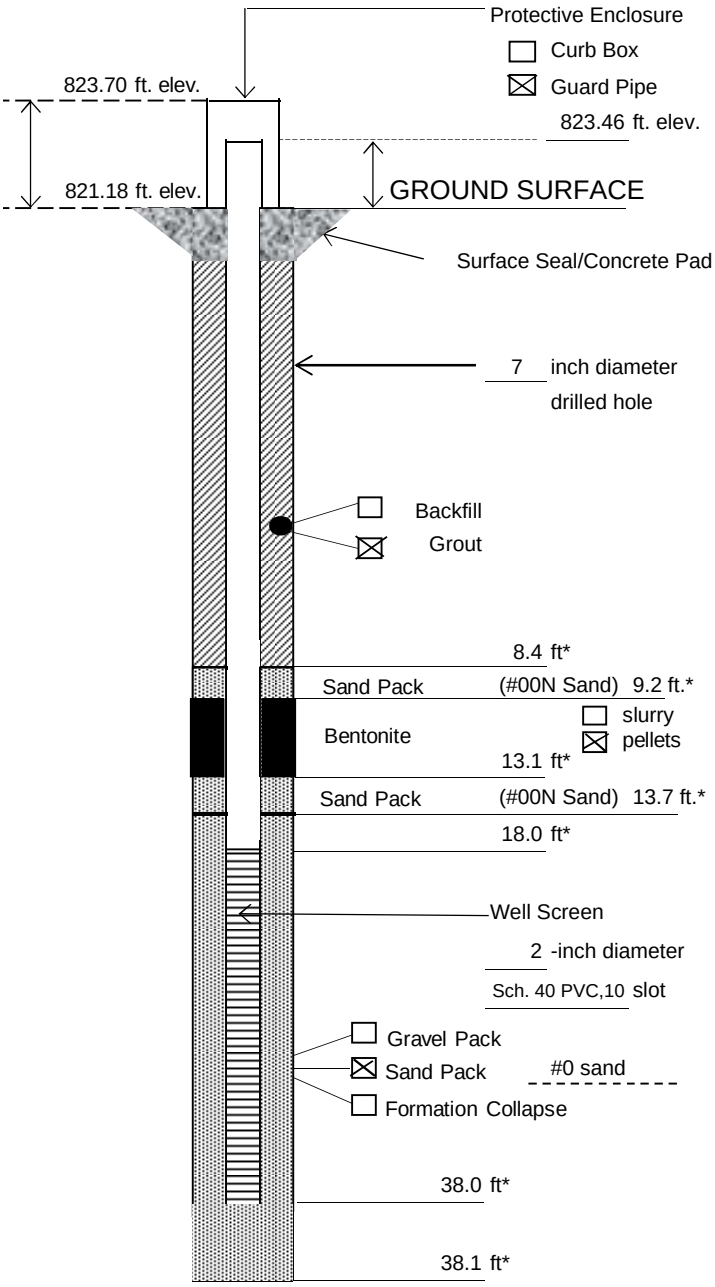
Cetco Pure Gold Medium Bentonite Chips
- 1 bag

Grout Mix
- 188 lbs. of Portland Cement
- 30 gals. water
- 15 lbs. bentonite powder

Well No. MW2013-48

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number	08.8696
Project Name	Proposed East & West Brine Ponds
Well No.	MW2013-48
Boring No.	SB2013-48
Town/City	Reading Center
County	Schuyler
State	NY
Installation Date(s)	3/27/2013
Drilling Contractor	SJB Services, Inc.
Drilling Method	4-1/4 inch Hollow Stem Augers with HQ size core
Water Depth From Top of Riser	5.15 ft — 5/3/2013 (Date)
C.T. Male Observer	J. Dippert

Notes:

Upon encountering auger refusal at 24.5 ft., HQ size rock coring performed from 24.5 ft. to 38.1 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 6 bags

US Silica Company Industrial Quartz #00N Sand
- 1/2 bag

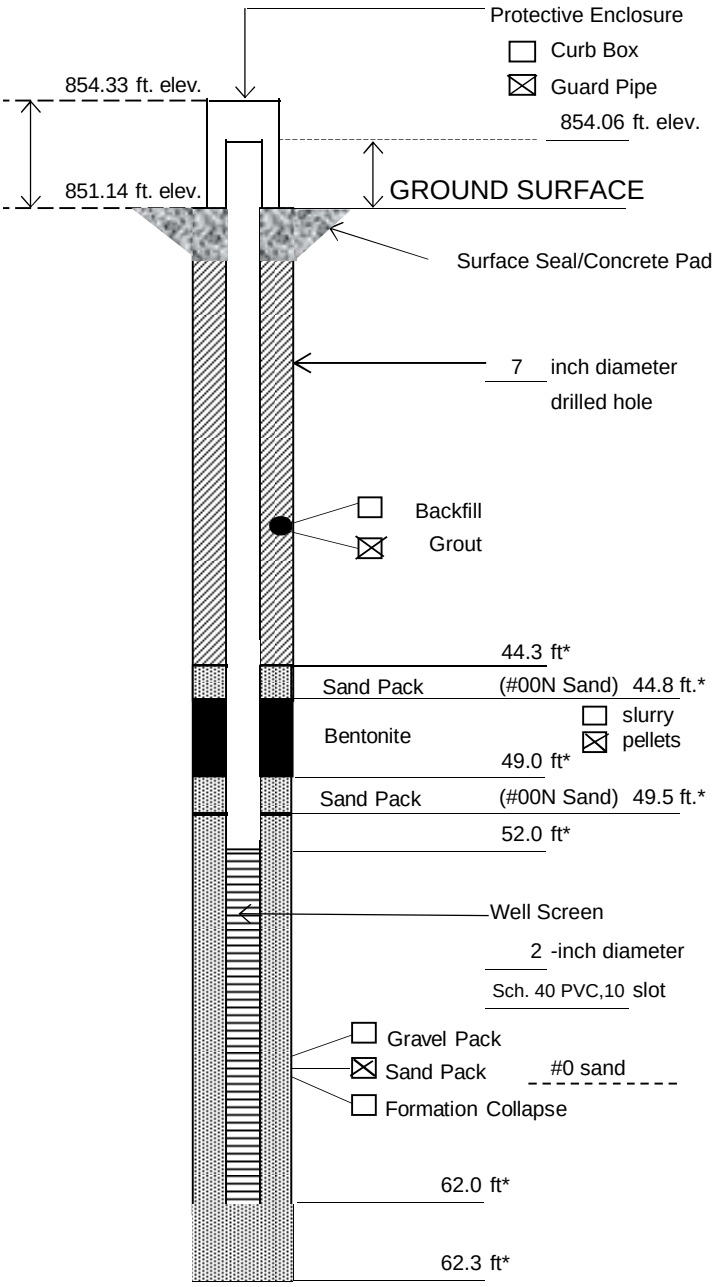
Cetco Pure Gold Medium Bentonite Chips
- 1/2 bag

Grout Mix
- 94 lbs. of Portland Cement
- 15 gals. water
- 10 lbs. bentonite powder

Well No. MW2013-49

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-49 Boring No. SB2013-49

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 3/29/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 14.06 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 45.5 ft., HQ size rock coring performed from 45.5 ft. to 62.3 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 1-1/2 bags

US Silica Company Industrial Quartz #00N Sand
- 1/4 bag

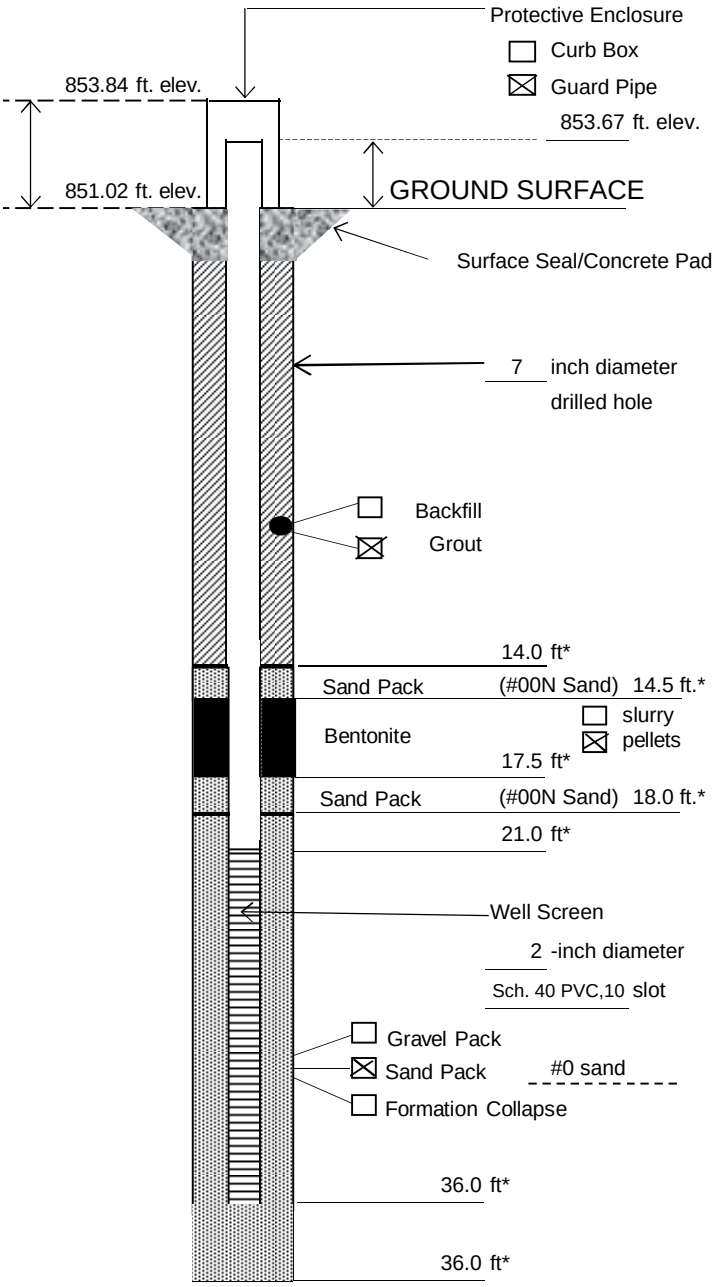
Cetco Pure Gold Medium Bentonite Chips
- 1/4 bag

Grout Mix
- 188 lbs. of Portland Cement
- 35 gals. water
- 25 lbs. bentonite powder

Well No. MW2013-50

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-50 Boring No. SB2013-50

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/2/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 13.19 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 23.4 ft., HQ size rock coring performed from 23.4 ft. to 36.0 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 5-1/2 bags

US Silica Company Industrial Quartz #00N Sand
- 1/2 bag

Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

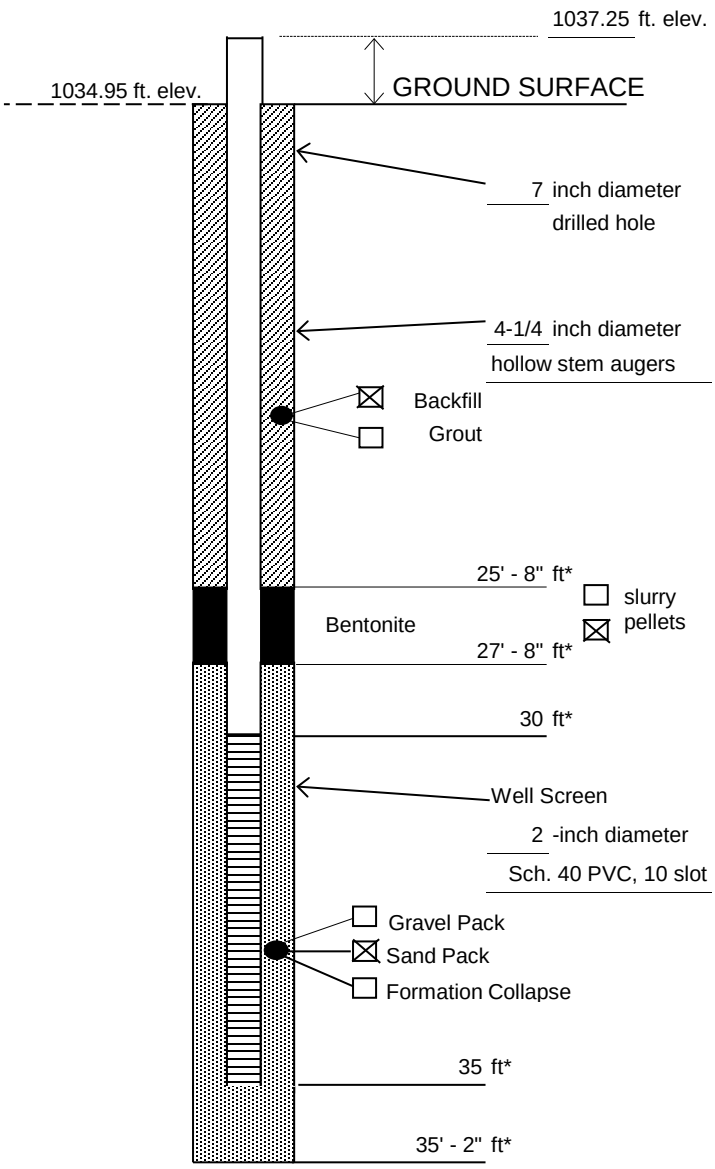
Grout Mix
- 188 lbs. of Portland Cement
- 30 gals. water
- 15 lbs. bentonite powder

West Brine Pond

Well No. MW2012-26

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-26 Boring No. SB2012-26

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/24 & 4/25/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 11.30 ft 5/1/2012 Date

C.T. Male Observer T. Morgan

Notes:

Material Used

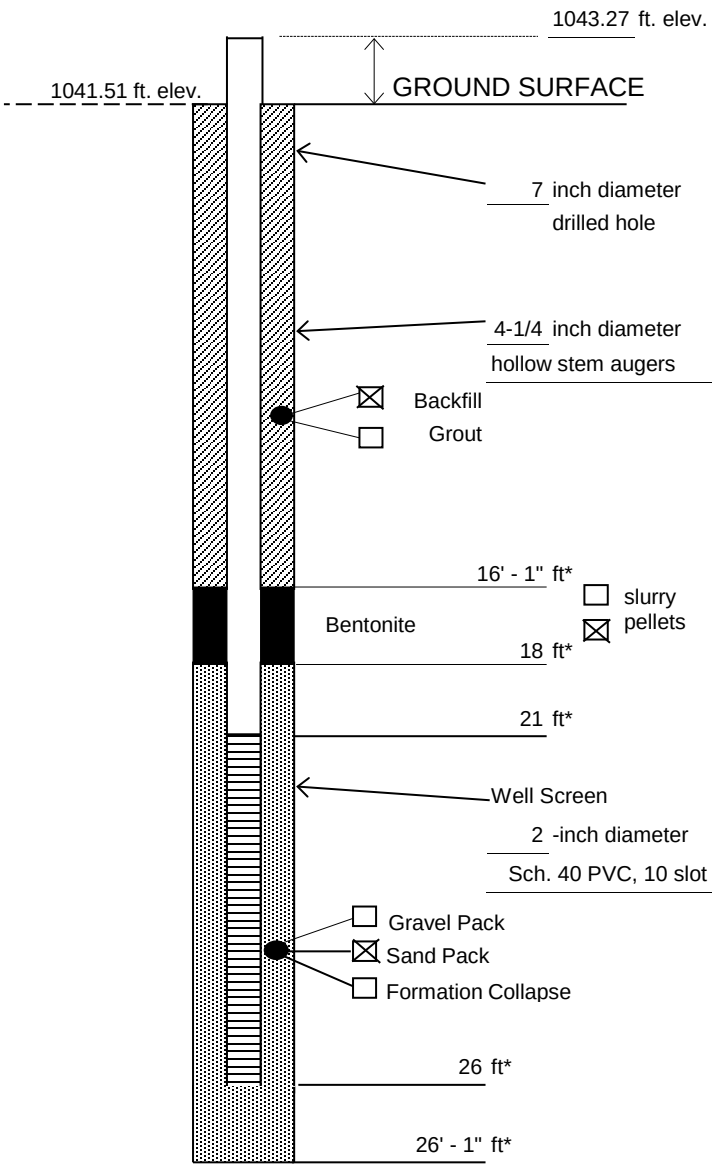
NSF Silica Quartz Sand - 3 bags

CETCO Pure Gold Bentonite Chips - 1/2 bag

Well No. MW2012-27

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-27 Boring No. SB2012-27

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/25/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 13.95 ft 5/1/2012 Date

C.T. Male Observer T. Morgan

Notes:

Material Used

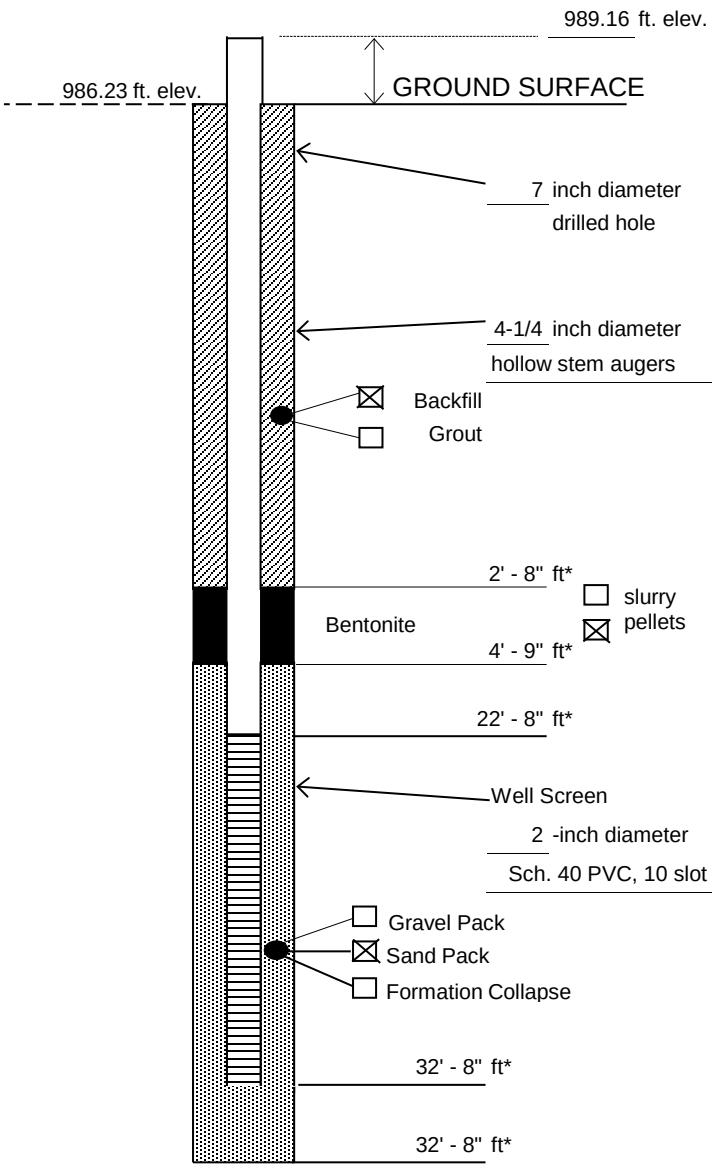
NSF Silica Quartz Sand - 4 bags

CETCO Pure Gold Bentonite Chips - 1/2 bag

Well No. MW2012-28

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-28 Boring No. SB2012-28

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/26/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 6.11 ft 5/1/2012 (Date)

C.T. Male Observer T. Morgan

Notes:

Material Used

NSF Silica Quartz Sand - 12 bags

CETCO Pure Gold Bentonite Chips - 1/2 bag

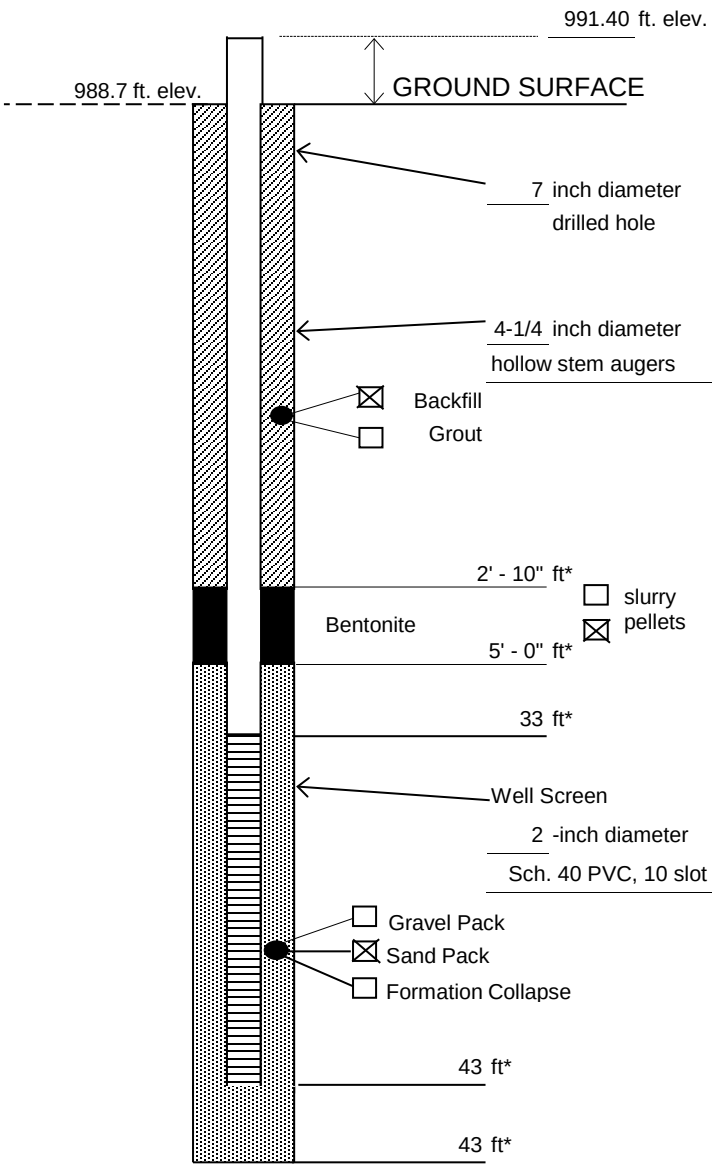
Formation collapse from depth of 13 to 12 feet.

Material generally consists of fine sand with little silt.

Well No. MW2012-29

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-29 Boring No. SB2012-29

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/30/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 7.81 ft 5/1/2012 Date

C.T. Male Observer T. Morgan

Notes:

Material Used

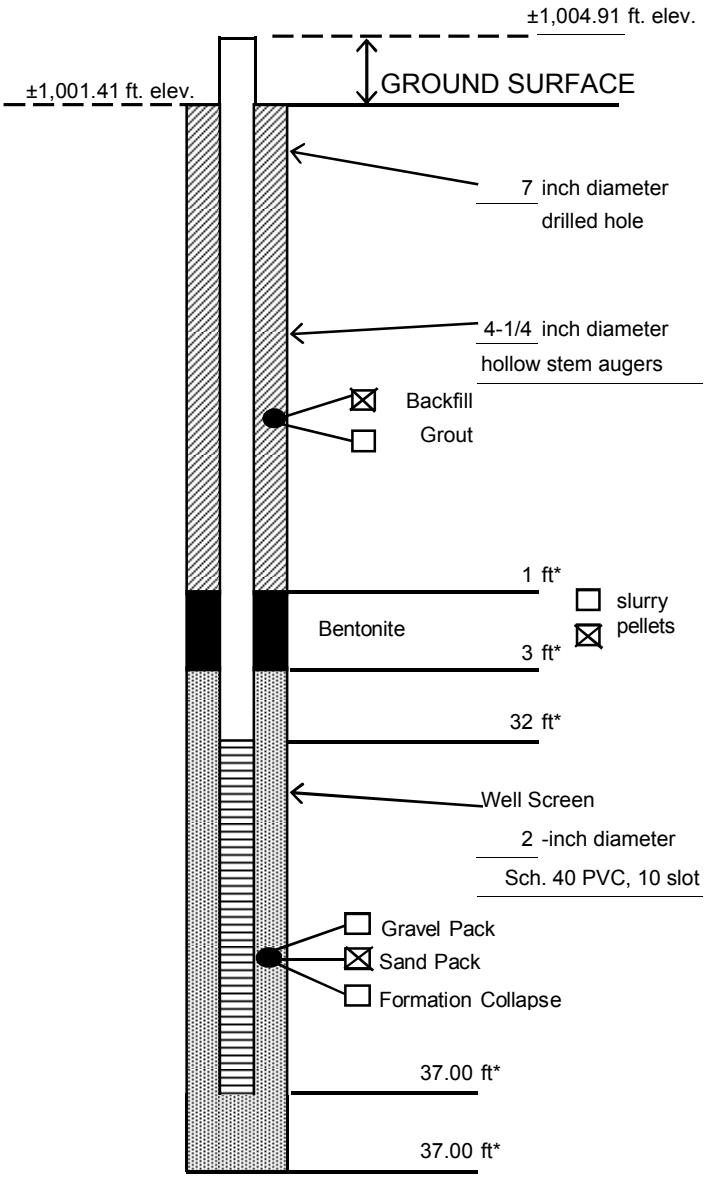
NSF Silica Quartz Sand - 17 bags

CETCO Pure Gold Bentonite Chips - 1/2 bag

Well No. MW2012-34

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-34 Boring No. SB2012-34

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 6/26 - 6/27/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 7.9 ft 7/3/2012 Date

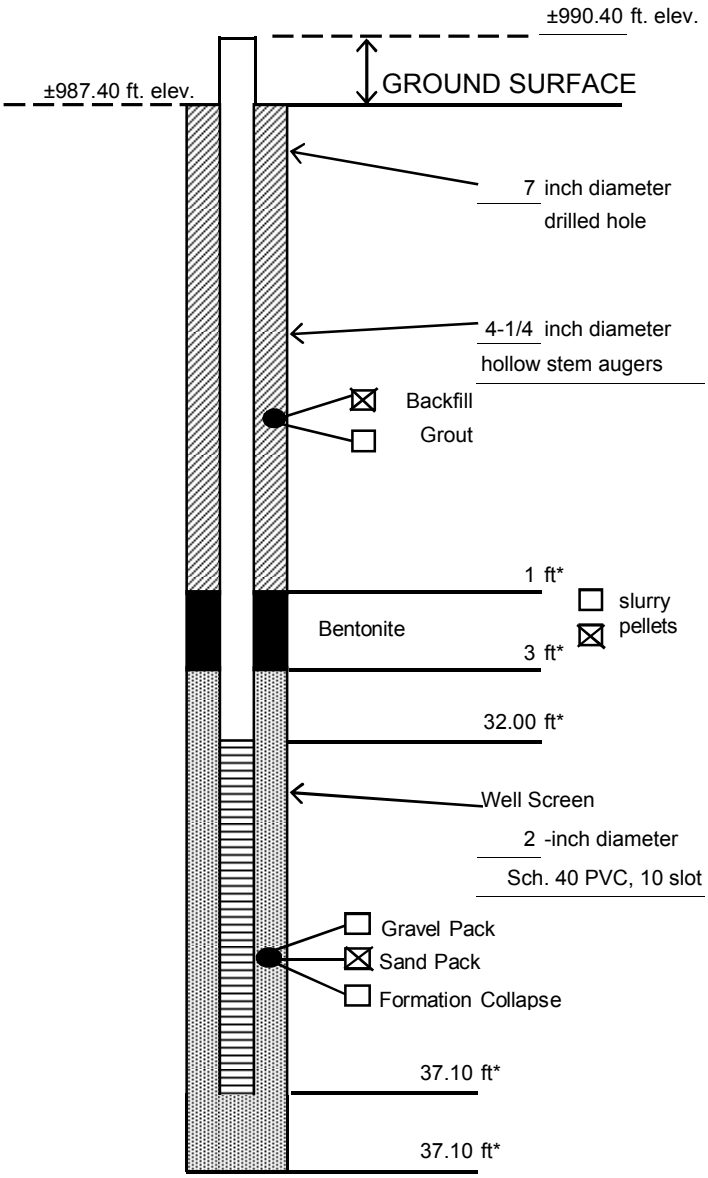
C.T. Male Observer R. Smaka

Notes:

Well No. MW2012-35A

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-35A Boring No. SB2012-35A

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 6/28/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 4.9 ft 7/3/2012 Date

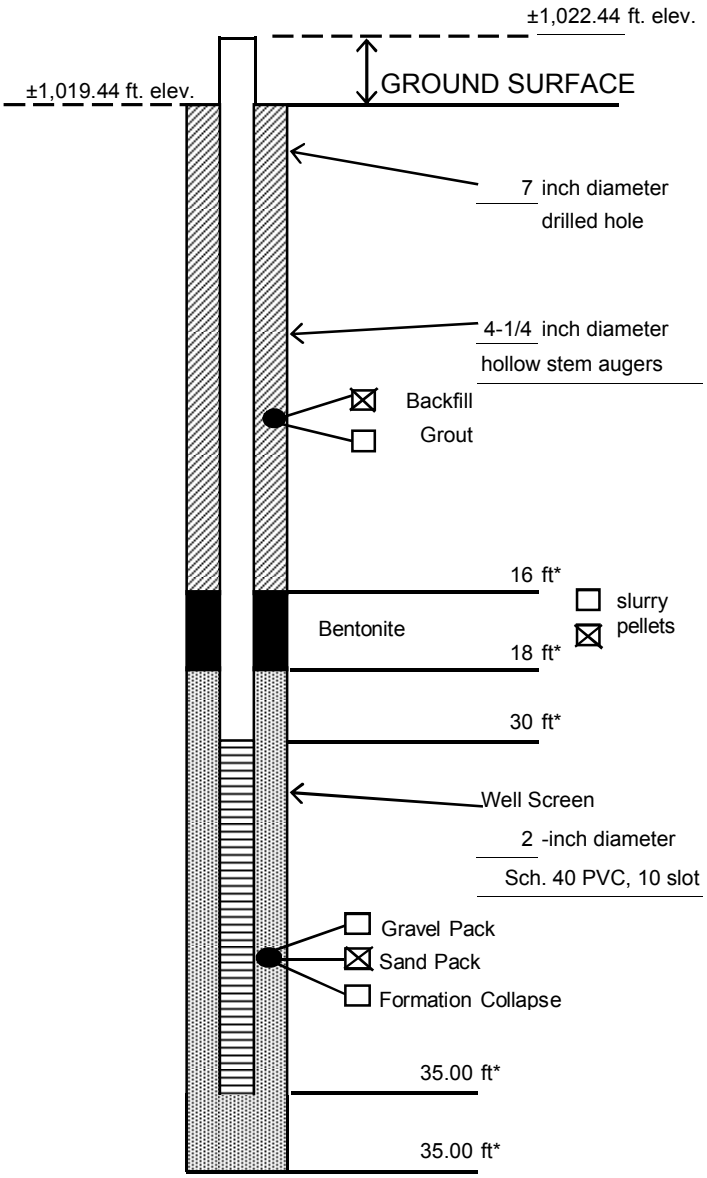
C.T. Male Observer R. Smaka

Notes:

Well No. MW2012-36

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-36 Boring No. SB2012-36

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 7/3/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser _____ ft _____ Date

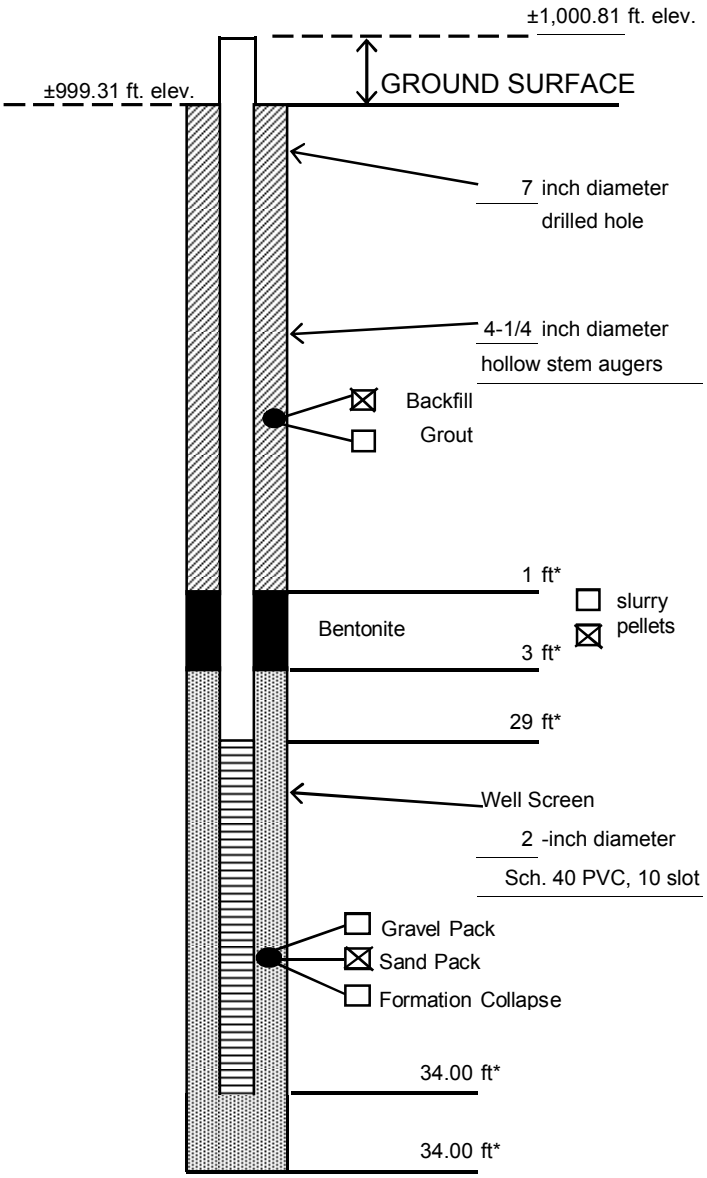
C.T. Male Observer R. Smaka

Notes:

Well No. MW2012-37

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-37 Boring No. SB2012-37

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 6/29 - 7/2/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 12.4 ft 7/3/2012 Date

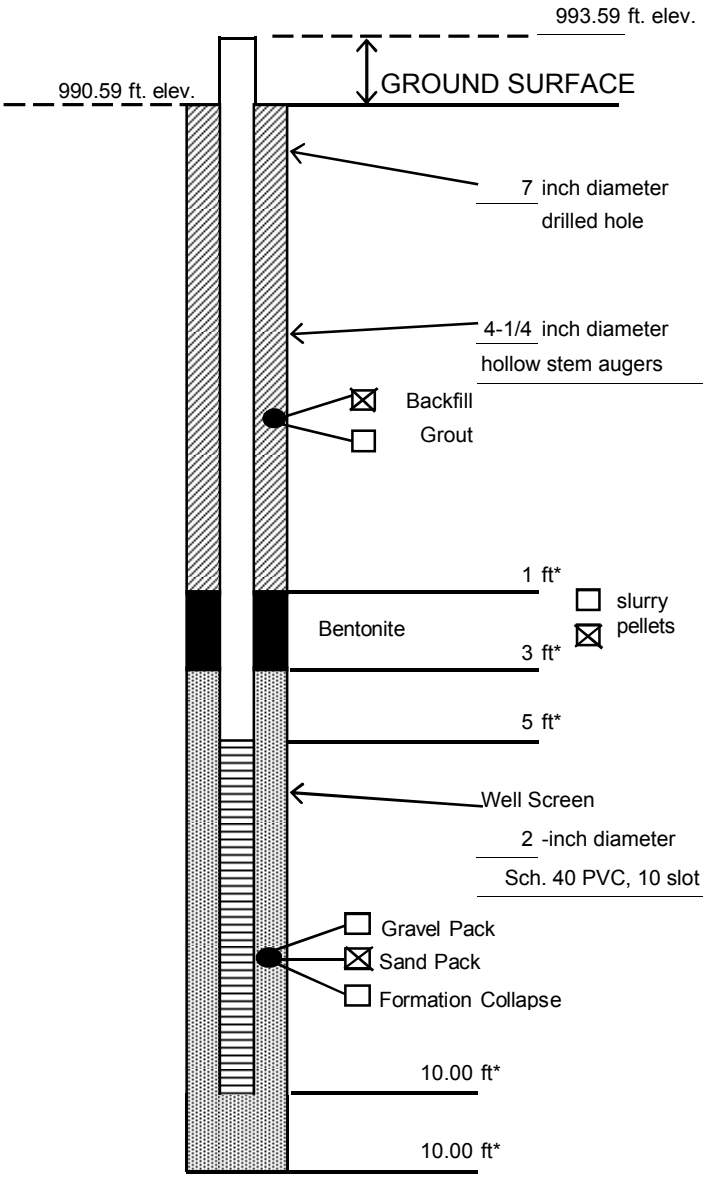
C.T. Male Observer R. Smaka

Notes:

Well No. MW2012-38

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

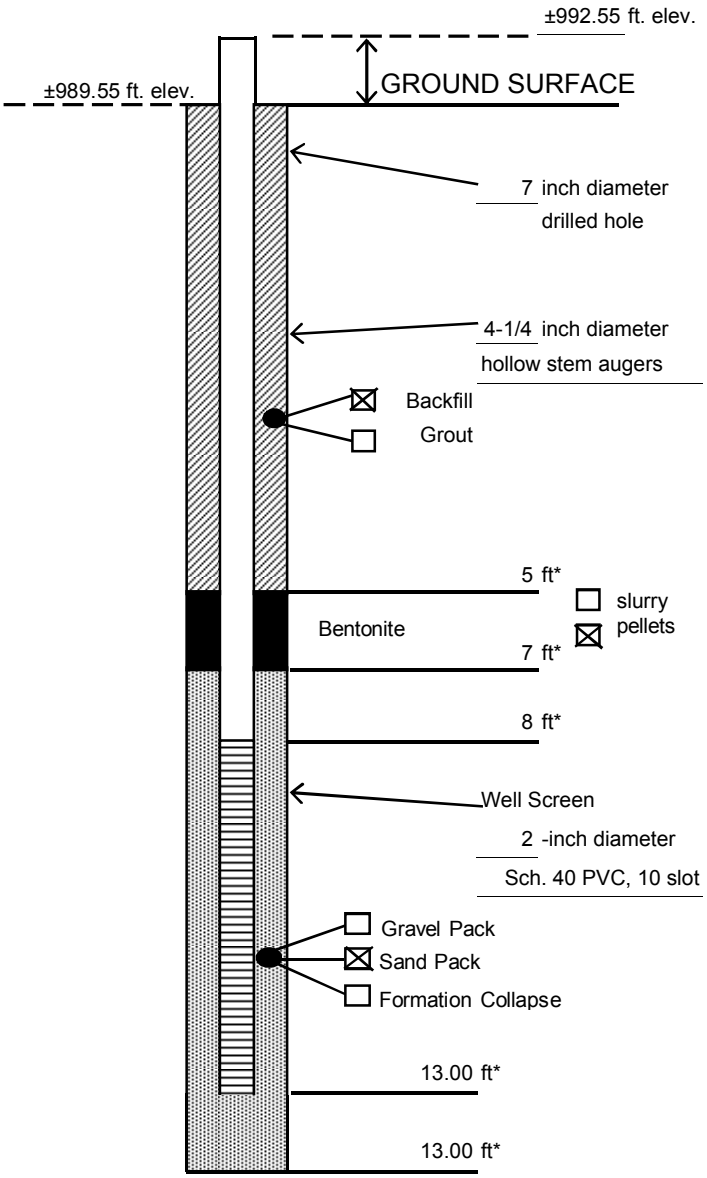
Project Number	08.8696
Project Name	Proposed East & West Brine Ponds
Well No.	MW2012-38
Boring No.	SB2012-38
Town/City	Reading Center
County	Schuyler
State	NY
Installation Date(s)	6/28/2012
Drilling Contractor	SJB Services, Inc.
Drilling Method	4-1/4 inch hollow stem augers
Water Depth From Top of Riser	9.1 ft 7/3/2012 (Date)
C.T. Male Observer	R. Smaka

Notes:

Well No. MW2012-39

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2012-39 Boring No. SB2012-39

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 6/28/2012

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch hollow stem augers

Water Depth From Top of Riser 7.7 ft 7/3/2012 (Date)

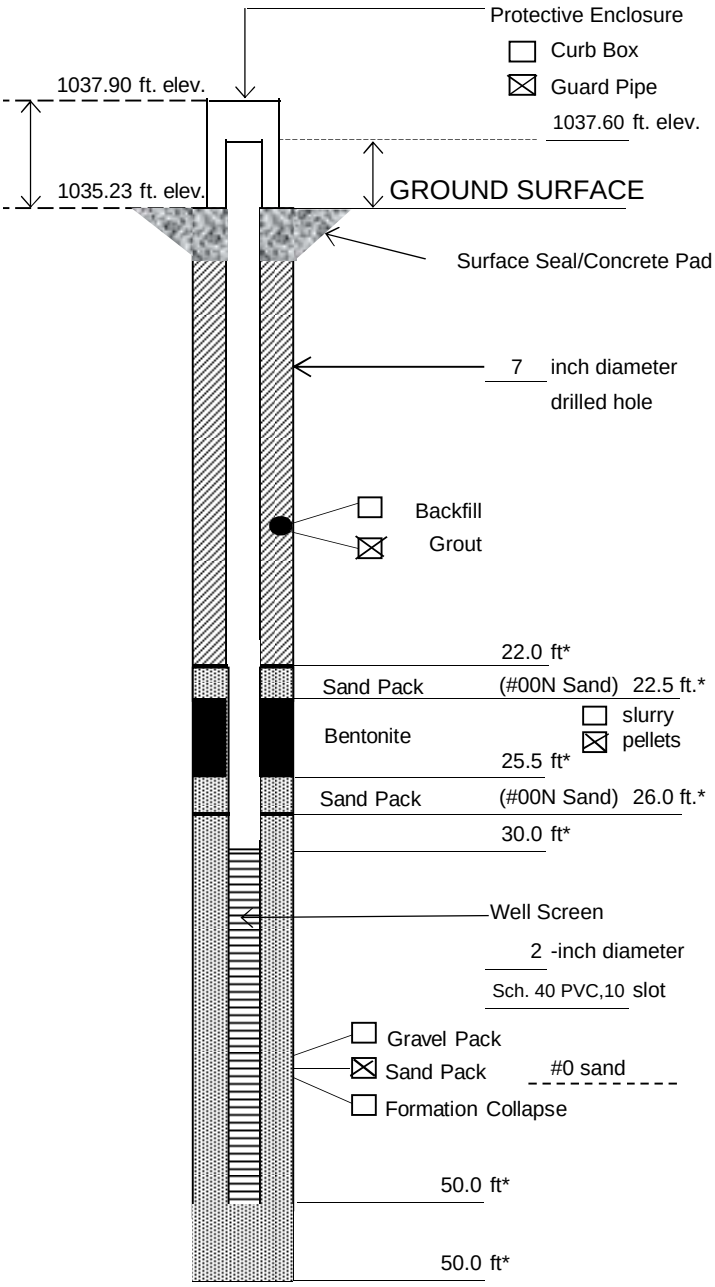
C.T. Male Observer R. Smaka

Notes:

Well No. MW2013-51

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-51 Boring No. SB2013-51

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/10/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 9.54 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 39.5 ft., HQ size rock coring performed from 39.5 ft. to 50.0 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 7-1/4 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

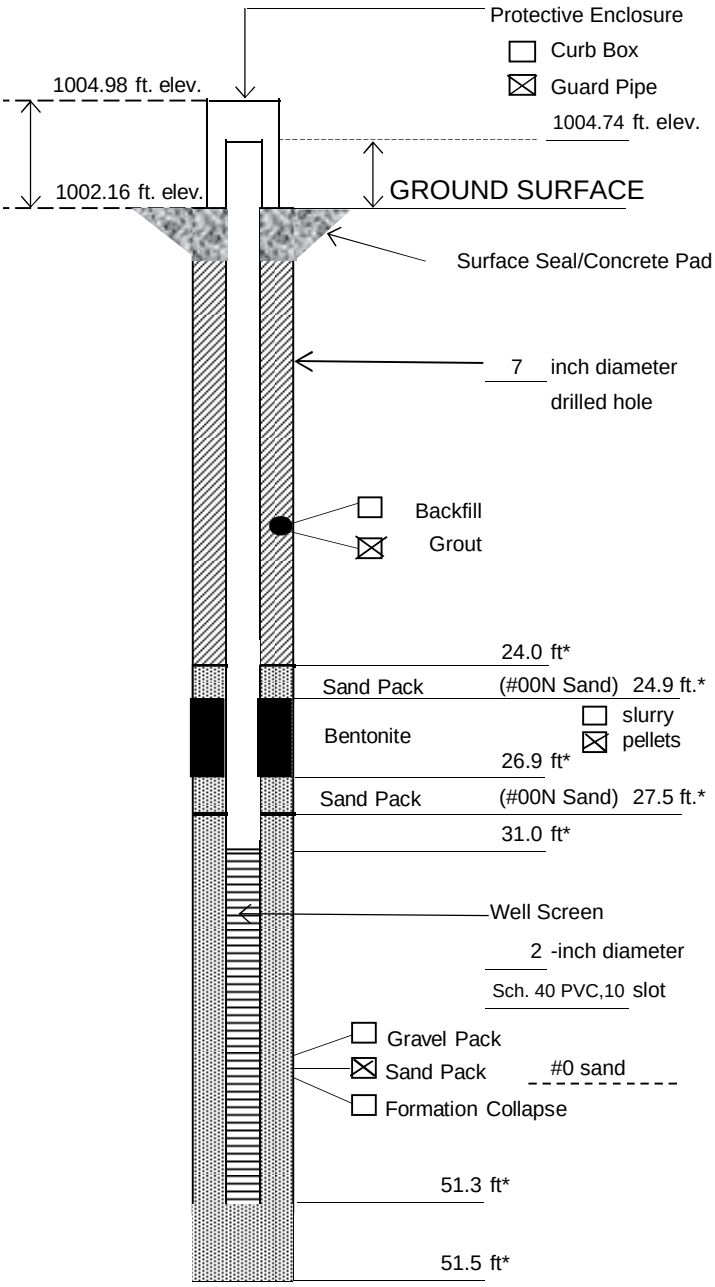
Cetco Pure Gold Medium Bentonite Chips
- 1 bag

Grout Mix
- 188 lbs. of Portland Cement
- 35 gals. water
- 15 lbs. bentonite powder

Well No. MW2013-52

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-52 Boring No. SB2013-52

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/15/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 10.57 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert/T. Morgan

Notes:

Upon encountering auger refusal at 40.5 ft., HQ size rock coring performed from 40.5 ft. to 51.5 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 8 bags

US Silica Company Industrial Quartz #00N Sand
- 1 bag

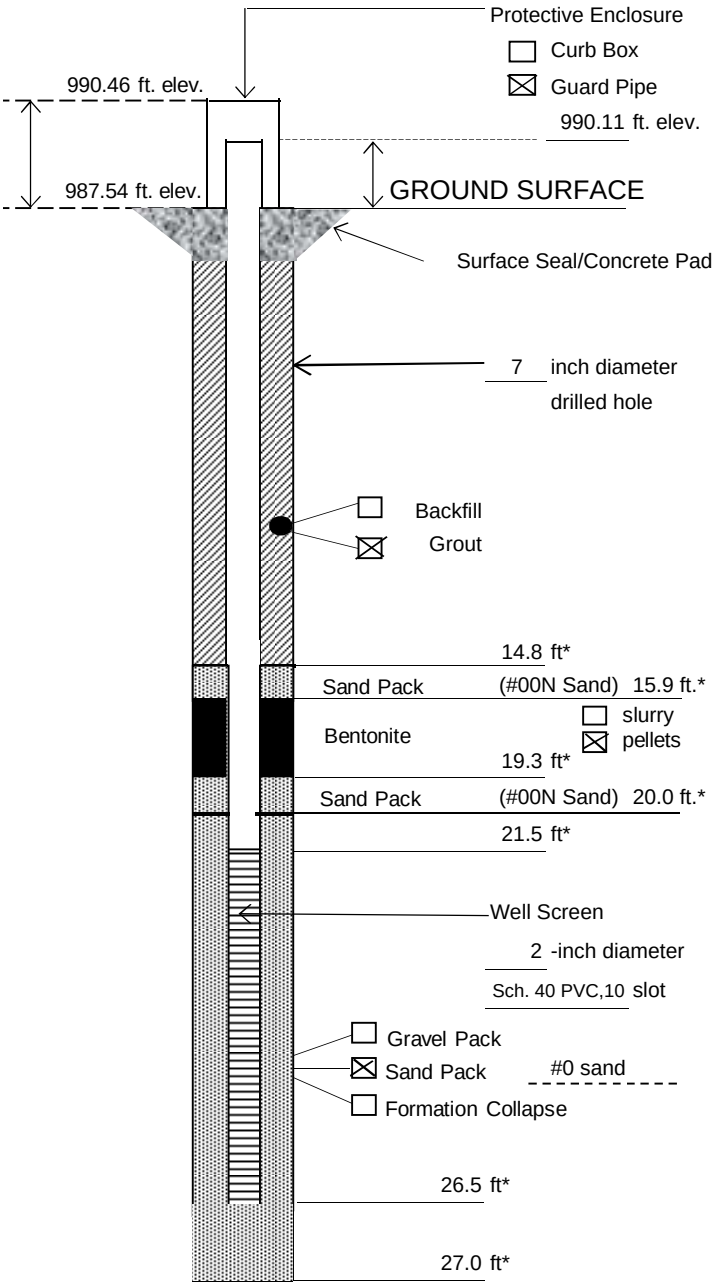
Cetco Pure Gold Medium Bentonite Chips
- 1-1/4 bags

Grout Mix
- 100 lbs. of Portland Cement
- 30 gals. water
- 40 lbs. bentonite powder

Well No. MW2013-53

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-53 Boring No. SB2013-53

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/11/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 4.64 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3-1/2 bags

US Silica Company Industrial Quartz #00N Sand
- 1/2 bag

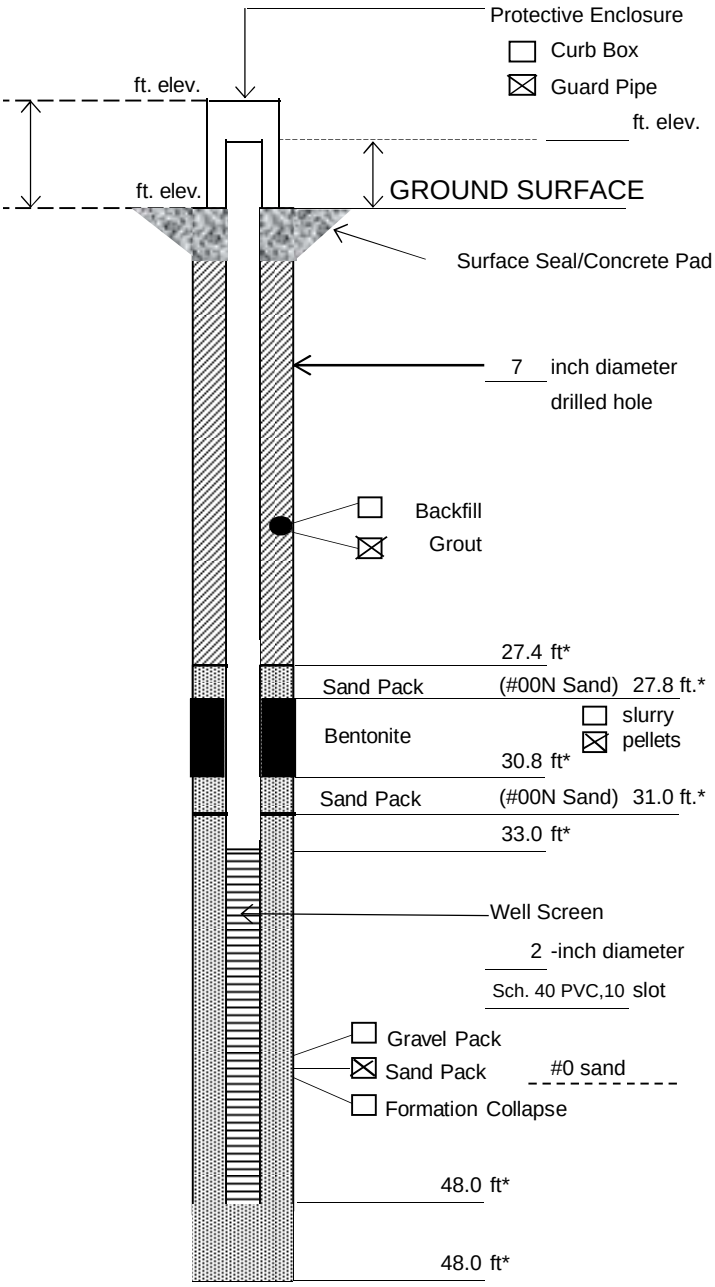
Cetco Pure Gold Medium Bentonite Chips
- 1/2 bags

Grout Mix
- 188 lbs. of Portland Cement
- 20 gals. water
- 15 lbs. bentonite powder

Well No. MW2013-54

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-54 Boring No. SB2013-54

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/16 - 4/17/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser – ft – Date

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 36.0 ft., HQ size rock coring performed from 36.0 ft. to 48.0 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 2-3/4 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

Cetco Pure Gold Medium Bentonite Chips
- 3/4 bags

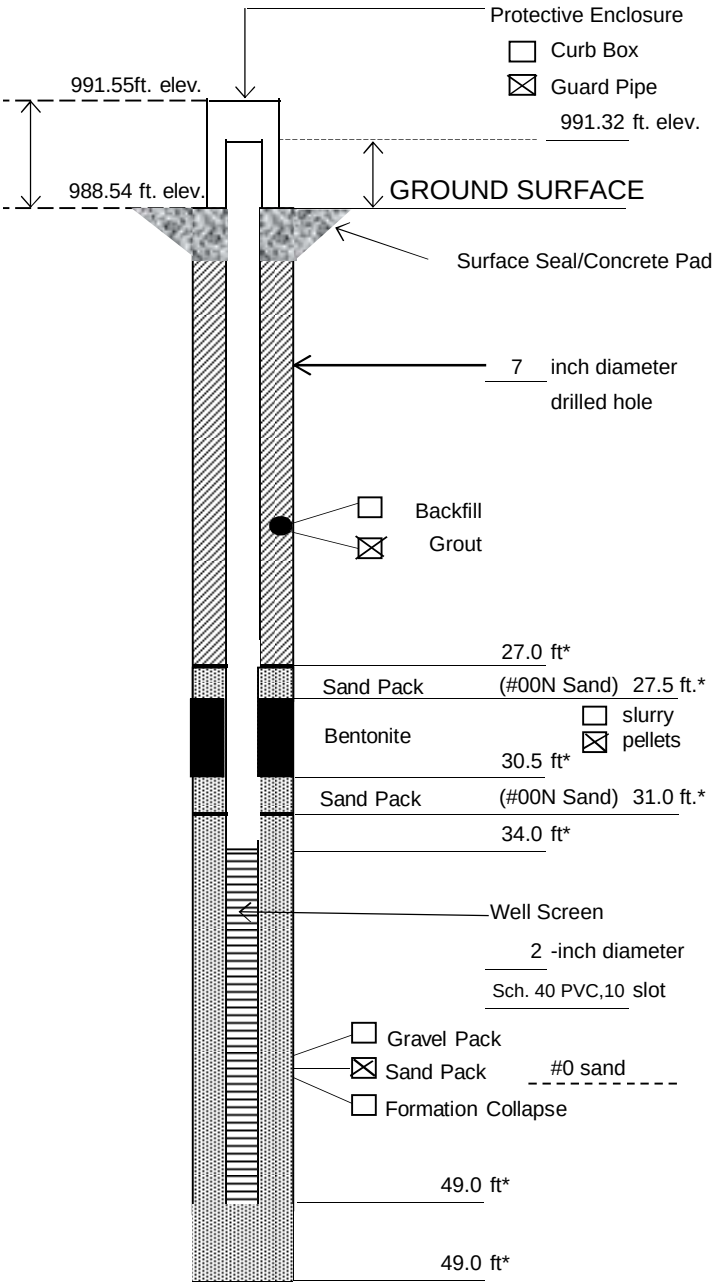
Grout Mix
- 188 lbs. of Portland Cement
- 50 gals. water
- 25 lbs. bentonite powder

Monitoring Well location abandoned in accordance with CP43 due to improper installation techniques.

Well No. MW2013-54A

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-54A Boring No. SB2013-54A

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/29/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 8.59 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert/N. Castagnier

Notes:

Upon encountering auger refusal at 37.0 ft., HQ size rock coring performed from 37.0 ft. to 49.0 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 5 bags

Ricci Bros. Sand Co. Silica Quartz #00 Sand
- 3/4 bag

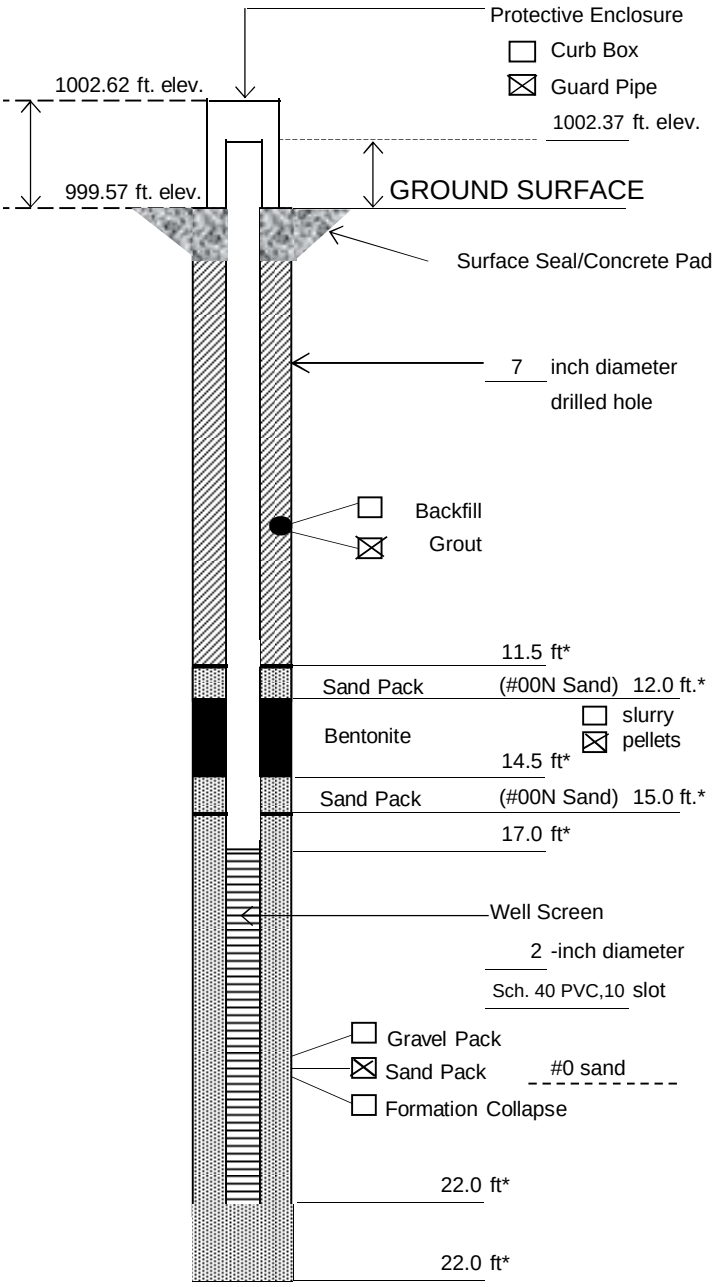
Cetco Pure Gold Medium Bentonite Chips
- 1 bag

Grout Mix
- 188 lbs. of Portland Cement
- 35 gals. water
- 15 lbs. bentonite powder

Well No. MW2013-55

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-55 Boring No. SB2013-55

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/17/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers

Water Depth From Top of Riser 14.63 ft 5/3/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 4 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

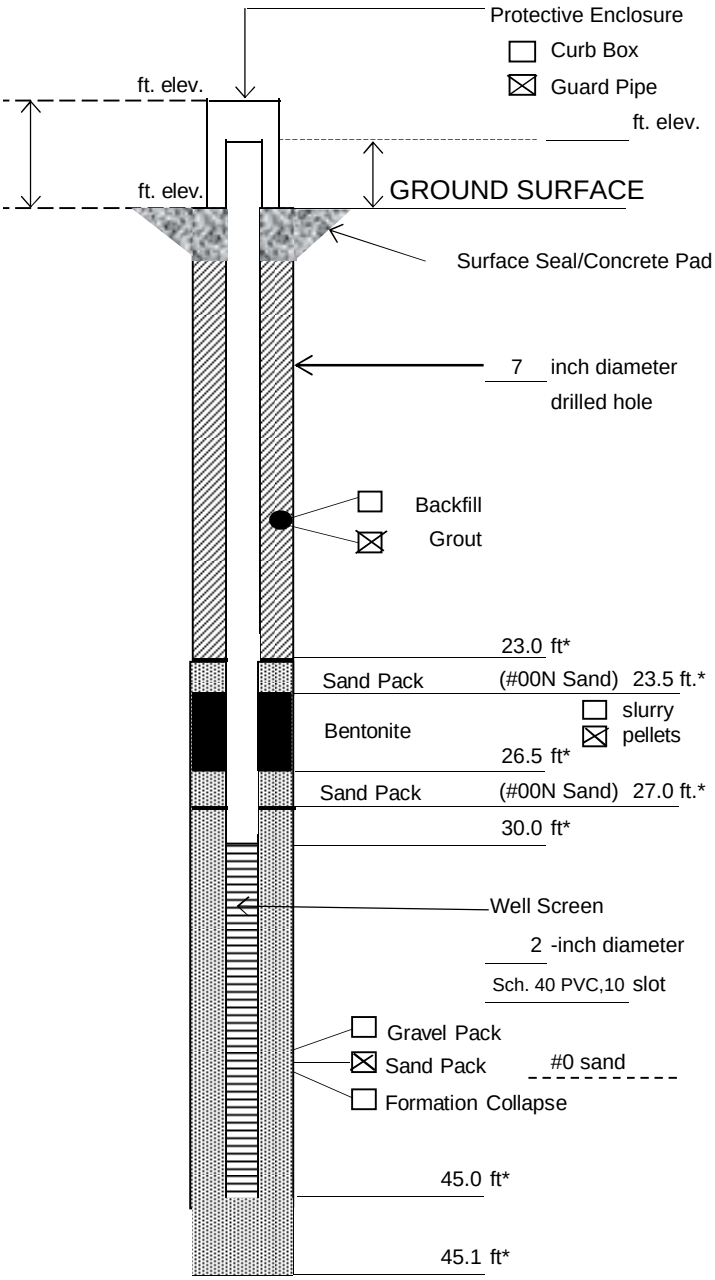
Cetco Pure Gold Medium Bentonite Chips
- 1 bag

Grout Mix
- 94 lbs. of Portland Cement
- 20 gals. water
- 10 lbs. bentonite powder

Well No. MW2013-56

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-56 Boring No. SB2013-56

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/18/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser – ft – Date

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 34.5 ft., HQ size rock coring performed from 34.5 ft. to 45.0 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 3 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

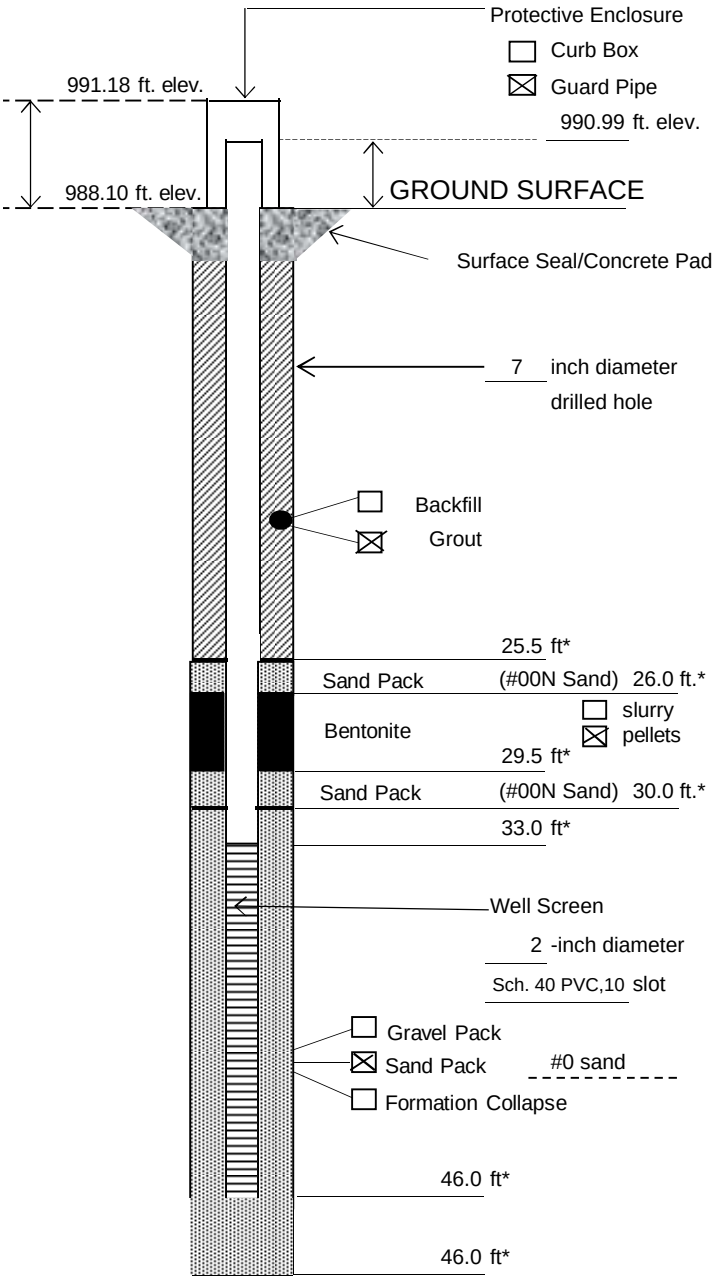
Grout Mix
- 188 lbs. of Portland Cement
- 50 gals. water
- 10 lbs. bentonite powder

Monitoring Well location abandoned in accordance with CP43 due to improper installation techniques.

Well No. MW2013-56A

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-56A Boring No. SB2013-56A

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/24 - 4/25/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 10.03 ft 05/03/2013 Date

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 35.7 ft., HQ size rock coring performed from 35.7 ft. to 46.1 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 4 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

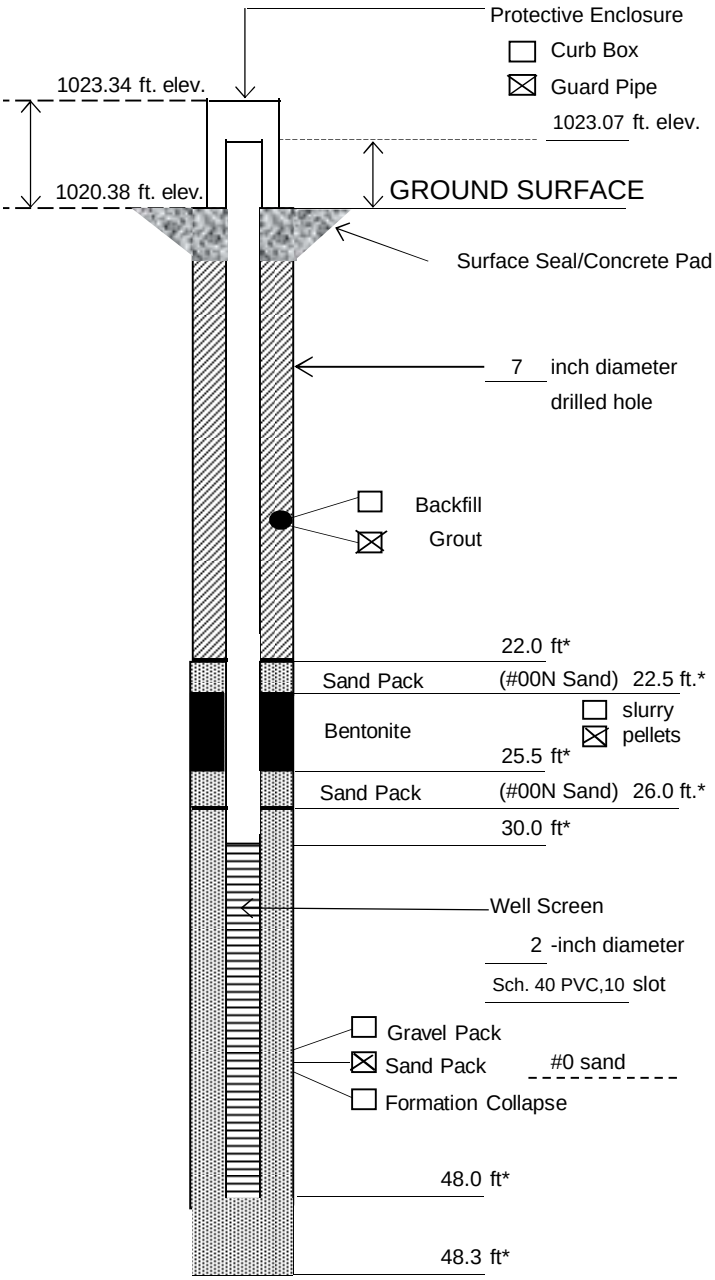
Cetco Pure Gold Medium Bentonite Chips
- 1 bag

Grout Mix
- 188 lbs. of Portland Cement
- 40 gals. water
- 15 lbs. bentonite powder

Well No. MW2013-57

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-57 Boring No. SB2013-57

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/18/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 22.58 ft 05/03/2013 Date

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 37.5 ft., HQ size rock coring performed from 37.5 ft. to 48.3 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 7 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

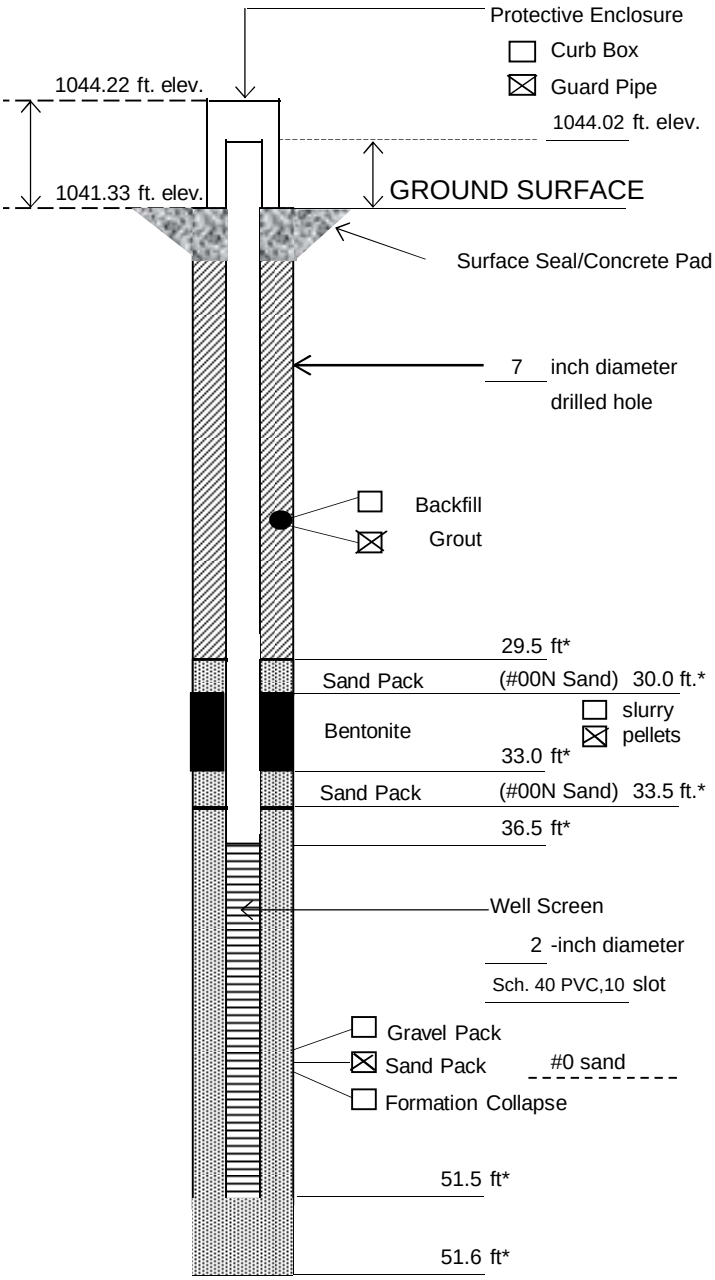
Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

Grout Mix - Proportions not recorded

Well No. MW2013-58

MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES



* Depth below ground surface.

Project Number 08.8696

Project Name Proposed East & West Brine Ponds

Well No. MW2013-58 Boring No. SB2013-58

Town/City Reading Center

County Schuyler State NY

Installation Date(s) 4/23/2013

Drilling Contractor SJB Services, Inc.

Drilling Method 4-1/4 inch Hollow Stem Augers with HQ size core

Water Depth From Top of Riser 21.6 ft 05/03/2013 (Date)

C.T. Male Observer J. Dippert

Notes:

Upon encountering auger refusal at 41.6 ft., HQ size rock coring performed from 41.6 ft. to 51.6 ft. below ground surface.

Material Used:

US Silica Company Industrial Quartz #0 Sand
- 5 bags

US Silica Company Industrial Quartz #00N Sand
- 3/4 bag

Cetco Pure Gold Medium Bentonite Chips
- 3/4 bag

Grout Mix
- 282 lbs. of Portland Cement
- 60 gals. water
- 25 lbs. bentonite powder

APPENDIX C

Table For Routine And Baseline Parameters

(c) The data validation shall be performed on all analytical data for the facility at a rate acceptable to the department, but not less than five percent of the data generated, and shall consist, at a minimum, of the following:

(1) field records and analytical data are reviewed to determine whether the data are accurate and defensible. All AQA/AQC information shall be reviewed along with any corrective actions taken during that sampling event; and

(2) all data summaries shall be clearly marked to identify any data that are not representative of environmental conditions at the site, or that were not generated in accordance with the site analytical plan.

(ii) Data usability analysis.

(a) The data usability analysis shall be performed on all analytical data for the facility and shall consist of the following:

(1) an assessment to determine if the data quality objectives were met;

(2) for consistency, comparison of the analytical data with the results from previous sampling events;

(3) evaluation of field duplicate results to indicate the samples are representative;

(4) comparison of the results of all field blanks, trip blanks, equipment rinsate blanks, and method blanks with full data sets to provide information concerning contaminants that may have been introduced during sampling, shipping, or analyzing;

(5) evaluation of matrix effects to assess the performance of the analytical method with respect to the sample matrix, and determine whether the data have been biased high or low due to matrix effects;

(6) integration of the field and laboratory data with geological, hydrogeological, and meteorological data to provide information about the extent of contamination, if it occurs; and

(7) comparison of precision, accuracy, representativeness, comparability, completeness, and defensibility of the data generated with that required to meet the data quality objectives established in the site analytical plan.

(6) The following Water Quality Analysis Tables in this section list the routine, baseline, and expanded parameters for analysis of all monitoring samples.

WATER QUALITY ANALYSIS TABLES

ROUTINE PARAMETERS[1]

Common Name[2]	CAS RN[3]	Suggested Methods	PQL[4] (µg/l)
Field Parameters:			
Static water level(in wells and sumps)			
Specific Conductance		9050	
Temperature			

Floaters or Sinkers[5]			
Temperature			
pH		9040	
Eh		9041	
Dissolved Oxygen[6]			
Field Observations[7]			
Turbidity		180.1	
Leachate Indicators:			
Total Kjeldahl Nitrogen		351.1 351.2 351.3	60
Ammonia.....	7664-41-7	351.4 350.1 350.2	200 60
Nitrate.....		350.3	100
Chemical Oxygen Demand.....		9200 410.1 410.2 410.3 410.4	50000 50000 5000 80000
Biochemical Oxygen Demand (BOD_5).....		405.1	2000
Total Organic Carbon.....			
Total Dissolved Solids		9060	
Sulfate.....		160.1 9035	40000
Alkalinity.....		9036 9038	
Phenols.....		310.1	20000
Chloride.....	108-95-2	310.2 8040 9250	6000
Bromide.....		9251	
Total hardness as $CaCO_3$		9252 320.1 130.1 130.2	2000 20000 30000
Inorganic Parameters:			
Cadmium.....	(Total)	3010 7130	40 50
Calcium.....		7131	1
Iron.....	(Total)	7140	40

	(Total)	7380	100
Lead.....	(Total)	7381 6010 7420	4 400 1000
Magnesium.....		7421	10
Manganese.....	(Total) (Total)	7450 7460	4 40
Potassium.....		7461	0.8
Sodium.....	(Total) (Total)	7610 7770	40 8

The department may modify this list as necessary.

Notes

[1]This list contains parameters for which possible analytical procedures are provided in EPA Report SW-846 *Test Methods for Evaluating Solid Waste*, third edition, November 1986, as revised December 1987, and *Methods for Chemical Analysis of Water and Wastes*, USEPA-600/4-79-020, March, 1979. The regulatory requirements pertain only to the list of parameters; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnote 4.

[2]Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

[3]Chemical Abstracts Service Registry Number. Where "Total" is entered, all species in the groundwater that contain this element are included.

[4]Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in groundwaters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. PQLs are based on 5 ml samples for volatile organics and 1 L samples for semivolatile organics. CAUTION: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

[5]Any floaters or sinkers found must be analyzed separately for baseline parameters.

[6]Surface water only.

[7]Any unusual conditions (colors, odors, surface sheens, etc.) noticed during well development, purging, or sampling must be reported.

BASELINE PARAMETERS[1]

Common Name[2]	**CAS RN[3]**	**Suggested Methods**	**PQL[4] (µg/l)**
Field Parameters:			

Static water level..... (in wells and sumps)			
Specific Conductance.....		9050	
Temperature.....			
Floaters or Sinkers[5].....			
pH.....		9040 9041	
Eh.....			
Dissolved Oxygen[6].....			
Field Observations[7].....		180.1	
Turbidity.....			
Leachate Indicators:			
Total Kjeldahl Nitrogen...		351.1 351.2 351.3	60
Ammonia.....	7664-41-7	351.4 350.1 350.2	200 30
Nitrate.....		350.3	100
Chemical Oxygen Demand....		9200 410.1 410.2 410.3	50000 50000 50000
Biochemical Oxygen Demand (BOD_5).....		410.4 405.1	80000 2000
Total Organic Carbon.....			
Total Dissolved Solids....		9060	
Sulfate.....		160.1 9035	40000
Alkalinity.....		9036 9038	
Phenols.....		310.1	20000
Chloride.....		310.2 9250	6000
Bromide.....		9251	
Total hardness as $CaCO_3$ ...		9252	
Color.....		320.1 130.1 130.2 110.1 110.2 110.3	2000 20000 30000 80

Boron.....	7440-42-8		
Inorganic Parameters:			
Aluminum.....			
Antimony.....	(total) (total)	7020 6010 7040	10 300 2000
Arsenic.....	(total)	7041 6010 7060	30 500 10
Barium.....	(total)	7061 6010	20 20
Beryllium.....	(total)	7080 6010 7090	1000 3 50
Cadmium.....	(total)	7091 6010 7130	2 40 50
Calcium.....		7131	1
Chromium.....	(total) (total)	7140 6010 7190	40 70 500
Chromium(Hexavalent)*....	18540-29-9	7191 7195 7196	10 600
Cobalt.....	(total)	7197 7198 6010	30 70
Copper.....	(total)	7200 7201 6010	500 10 60
Cyanide.....		7210	200
Iron.....	(total)	7211 9010	10 200
Lead.....	(total) (total)	7380 7381 6010	100 4 400
Magnesium.....		7420	1000
Manganese.....	(total)	7421 7450	10 4
Mercury.....	(total)	7460	40
Nickel.....	(total)	7461 7470	0.8 2
Potassium.....	(total) (total)	6010 7520	150 400

		7610	40
Selenium.....	(total)	6010 7740	750 20
Silver.....	(total)	7741 6010	20 70
Sodium.....		7760	100
Thallium.....	(total) (total)	7761 7770 6010	10 8 400
Vanadium.....	(total)	7840 7841 6010	1000 10 80
Zinc.....	(total)	7910 7911 6010 7950 7951	2000 40 20 50 0.5
Organic Parameters:			
Acetone.....	67-64-1	8260	100
Acrylonitrile.....	107-13-1	8030 8260	5 200
Benzene.....	71-43-2	8020 8021 8260	2 0.1 5
Bromochloromethane.....	74-97-5	8021 8260	0.1 5
Bromodichloromethane.....	75-27-4	8010 8021 8260	1 0.2 5
Bromoform; Tribromomethane	75-25-2	8010 8021 8260	2 15 5
Carbon disulfide.....	75-15-0	8260	100
Carbon tetrachloride.....	56-23-5	8010 8021 8260	1 0.1 10
Chlorobenzene.....	108-90-7	8010 8020 8021 8260	2 2 0.1 5
Chloroethane; Ethyl chloride.....	75-00-3	8010 8021	5 1
Chloroform; Trichloromethane.....	67-66-3	8010 8021	0.5 0.2

Dibromochloromethane; Chlorodibromomethane....	124-48-1	8260 8010 8021	5 1 0.3
1,2-Dibromo-3-chloropro-pane; DBCP.....	96-12-8	8260 8011 8021	5 0.1 30
1,2-Dibromoethane; Ethyl-ene dibromide; EDB.....	106-96-4	8260 8011 8021	25 0.1 10
o-Dichlorobenzene; 1,2-Dichlorobenzene.....	95-50-1	8026 8010 8020 8021 8120 8260	5 2 5 0.5 10 5
p-Dichlorobenzene; 1,4-Dichlorobenzene.....	106-46-	8270 8010 8020 8021 8120 8260	10 2 5 0.1 15 5
trans-1,4-Dichloro-2-bu- tene.....		8270	10
1,1-Dichloroethane; Ethylidene chloride.....	110-57-6 75-34-3	8260 8010 8021	100 1 0.5
1,2-Dichloroethane; Ethylene dichloride.....	107-06-2	8260 8010 8021	8 0.5 0.3
1,1-Dichloroethylene;		8260	5
1,1-Dichloroethene;		8010	1
Vinylidene chloride.....	75-35-4	8021	0.5
cis-1,2-Dichloroethylene;		8260	5
cis-1,2-Dichloroethene..		8021	0.2
trans-1,2-Dichloroethyl-ene;	156-59-2	8260	5
trans-1,2-Dichloro- ethene.....	156-60-5	8010 8021	1 0.5
1,2-Dichloropropane;		8260	5
Pro-pylene dichloride.....	78-87-5	8010 8021	0.5 0.05
cis-1,3-Dichloropropene...		8260 8010	5 20
trans-1,3-Dichloropropene.	10061-01-5 10061-02-6	8260 8010 8260	10 5 10

Ethylbenzene.....	100-41-4	8020 8221 8260	2 0.05 5
2-Hexanone; Methyl butyl ketone.....	591-78-6	8260	50
Methyl bromide; Bromo- methane.....	74-83-9	8010 8021	20 10
Methyl chloride; Chloro- methane.....	74-87-3	8010 8021	1 0.3
Methylene bromide; Dibro- momethane.....	74-95-3	8010 8021	15 20
Methylene chloride; Dichloromethane....	75-09-02	8260 8010 8021	5 0.2 10
Methyl ethyl ketone; MEK; 2-Butanone....	78-93-3	8260 8010	100 40
4-Methyl-2-pentanone; Methyl isobutyl ketone..	108-10-1	8260 8015	10 5
Styrene.....	100-42-5	8260 8020 8021	100 1 0.1
1,1,1,2-Tetrachloroethane.	630-20-6	8260 8010 8021	10 5 5
1,1,2,2-Tetrachloroethane....	79-34-5	8260 8010 8021	0.5 0.1 0.05
Tetrachloroethylene; Tet- rachloroethene; Per-chloroethylene.....	127-18-4	8260 8010 8021	5 0.5 0.5
Toluene.....	108-88-3	8260 8020 8021	5 2 0.1
1,1,1-Trichloroethane; Methylchloroform.....	71-55-6	8260 8010 8021	5 0.3 0.3
1,1,2-Trichloroethane.....	79-00-5	8260 8010	5 0.2
Trichloroethylene; Tri- chloroethene.....	79-01-6	8260 8010 8021	5 1 0.2
Trichlorofluoromethane; CFC-11.....	75-69-4	8260 8010 8021 8260	5 10 0.3 5
1,2,3-Trichloropropane....	96-18-4	8010	10

		8021 8260	5 15
Vinyl acetate.....	108-05-4	8260	50
Vinyl chloride; Chloro- ethene.....	75-01-4	810 8021 8260	2 0.4 10
Xylenes.....	1330-20-7	8020 8021 8260	5 0.2 5

The department may modify this list as necessary.

Notes

[1]This list contains 47 volatile organics for which possible analytical procedures provided in EPA Report SW-846 *Test Methods for Evaluating Solid Waste*, third edition, November 1986, as revised December 1987, includes Method 8260; 25 metals for which SW-846 provides either Method 6010 or a method from the 7000 series of methods; and additional parameters for which possible procedures are provided in *Methods for Chemical Analysis of Water and Wastes*, USEPA-600/4-79-020, March, 1979. The regulatory requirements pertain only to the list of parameters; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnote 4.

[2]Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

[3]Chemical Abstracts Service Registry Number. Where "Total" is entered, all species in the groundwater that contain this element are included.

[4]Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in groundwaters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. PQLs are based on 5 ml samples for volatile organics and 1 L samples for semivolatile organics. CAUTION: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

[5]Any floaters or sinkers found must be analyzed separately for baseline parameters.

[6]Surface water only.

[7]Any unusual conditions (colors, odors, surface sheens, etc.) noticed during well development, purging, or sampling must be reported.

[*]The department may waive the requirement to analyze Hexavalent Chromium

provided that Total and Hexavalent and Trivalent Chromium values do not exceed 0 .05 mg/l.

EXPANDED PARAMETERS[1]

APPENDIX D

Groundwater Services Field Log

Groundwater Services Field Log

DATE: _____ PROJECT NAME: _____

PROJECT NO.: _____ PROJECT LOCATION: _____

SAMPLING PERSONNEL: _____

MONITORING WELL ID#: _____ NOTES TAKEN BY: _____

DEPTH TO WATER: _____ FROM: _____ BAILER ID: _____

DEPTH TO BOTTOM: _____ FROM: _____ BAILER: NEW DISPOSABLE

WATER COLUMN HEIGHT: _____ BAILER: STAINLESS STEEL _____

OTHER _____

CONVERSION FACTORS LINEAR FEET TO GALLONS

1″ = 0.041 GALLONS	3" = 0.38 GALLONS
1.25" = 0.064 GALLONS	4" = 0.66 GALLONS
2" = 0.16 GALLONS	6" = 1.47 GALLONS

WELL CASING DIAMETER

WELL VOLUME: _____ GALLONS

VOLUMES PURGED: _____ GALLONS PURGE METHOD: _____

TIME STARTED: ; TIME FINISHED:

OBSERVATIONS: COLOR _____ ; ODOR _____

SHEEN _____ ; TURBIDITY _____

OTHER _____ _____

WATER RECOVERY HEIGHT: _____ ; RECOVERY TIME IN MINUTES: _____

FIELD PARAMETERS: pH _____ , TEMPERATURE _____

CONDUCTIVITY _____ , OTHER _____

SAMPLE COLLECTION TIME: _____

NOTES: _____

_____

_____

APPENDIX E

Full Analytical Results

ANALYTICAL REPORT

Lab Number:	L1214815
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08.8696
Report Date:	08/28/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1214815-01	MW-30	READING, NY	08/17/12 07:40
L1214815-02	MW-31	READING, NY	08/17/12 07:45
L1214815-03	TRANSPORT BLANK	READING, NY	08/17/12 00:00
L1214815-04	MW-34	READING, NY	08/17/12 09:45
L1214815-05	MW-36	READING, NY	08/17/12 08:45
L1214815-06	MW-37	READING, NY	08/17/12 08:55
L1214815-07	MW-35	READING, NY	08/17/12 10:40
L1214815-08	MW-39	READING, NY	08/17/12 10:30

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1214815
Project Number: 08.8696 **Report Date:** 08/28/12

Case Narrative (continued)

Report Submission
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics
L1214815-03: The TRANSPORT BLANK has a result for Acetone present above the reporting limit. The sample vial was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

Metals
L1214815-01, -02 and -04 through -08 have elevated detection limits for all analytes, with the exception of Boron and Mercury, due to the dilutions required by matrix interferences encountered during analysis.
The WG556274-4 MS recovery for Sodium (31%), performed on L1214815-01, does not apply because the sample concentration is greater than four times the spike amount added.

Nitrogen, Ammonia
L1214815-01: The Ammonia result is slightly higher than the TKN result. The difference is within % RPD limits; therefore, no further action was taken.

Bromide
L1214815-01 and -04 through -08 have elevated detection limits due to the dilutions required by the sample matrix.

Chloride
L1214815-04 through -08 have elevated detection limits due to the dilutions required by the sample matrix.

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

Case Narrative (continued)

Sulfate

L1214815-01 and -04 through -08 have elevated detection limits due to the dilutions required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth Simmons

Elizabeth Simmons

Title: Technical Director/Representative

Date: 08/28/12

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-01	Date Collected:	08/17/12 07:40
Client ID:	MW-30	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/23/12 18:25		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	0.72		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-01 Date Collected: 08/17/12 07:40

Client ID: MW-30 Date Received: 08/17/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.9	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-02	Date Collected:	08/17/12 07:45
Client ID:	MW-31	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/23/12 18:59		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	1.4	J	ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	1.2		ug/l	0.50	0.19	1
Toluene	1.3	J	ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-02	Date Collected:	08/17/12 07:45
Client ID:	MW-31	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	57		ug/l	5.0	1.0	1
Carbon disulfide	1.6	J	ug/l	5.0	1.0	1
2-Butanone	7.3		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-03	Date Collected:	08/17/12 00:00
Client ID:	TRANSPORT BLANK	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/24/12 13:47		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	1.0	J	ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-03 Date Collected: 08/17/12 00:00

Client ID: TRANSPORT BLANK Date Received: 08/17/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	5.8		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-04	Date Collected:	08/17/12 09:45
Client ID:	MW-34	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/24/12 14:22		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-04 Date Collected: 08/17/12 09:45

Client ID: MW-34 Date Received: 08/17/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.4	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-05	Date Collected:	08/17/12 08:45
Client ID:	MW-36	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/24/12 14:56		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-05 Date Collected: 08/17/12 08:45

Client ID: MW-36 Date Received: 08/17/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.1	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-06	Date Collected:	08/17/12 08:55
Client ID:	MW-37	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/24/12 15:31		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-06 Date Collected: 08/17/12 08:55

Client ID: MW-37 Date Received: 08/17/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.2	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-07	Date Collected:	08/17/12 10:40
Client ID:	MW-35	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/24/12 16:06		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-07	Date Collected:	08/17/12 10:40
Client ID:	MW-35	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	13		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-08	Date Collected:	08/17/12 10:30
Client ID:	MW-39	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/24/12 16:40		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-08 Date Collected: 08/17/12 10:30

Client ID: MW-39 Date Received: 08/17/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/23/12 09:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG556813-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/23/12 09:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG556813-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/12 11:29
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG556997-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/24/12 11:29
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-08 Batch: WG556997-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG556813-1 WG556813-2								
Methylene chloride	92		90		70-130	2		20
1,1-Dichloroethane	102		100		70-130	2		20
Chloroform	102		102		70-130	0		20
2-Chloroethylvinyl ether	98		99		70-130	1		20
Carbon tetrachloride	84		86		63-132	2		20
1,2-Dichloropropane	98		99		70-130	1		20
Dibromochloromethane	96		101		63-130	5		20
1,1,2-Trichloroethane	104		108		70-130	4		20
Tetrachloroethene	103		107		70-130	4		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	117		116		62-150	1		20
1,2-Dichloroethane	107		107		70-130	0		20
1,1,1-Trichloroethane	91		93		67-130	2		20
Bromodichloromethane	106		106		67-130	0		20
trans-1,3-Dichloropropene	73		79		70-130	8		20
cis-1,3-Dichloropropene	79		82		70-130	4		20
1,1-Dichloropropene	99		99		70-130	0		20
Bromoform	108		115		54-136	6		20
1,1,2,2-Tetrachloroethane	106		110		67-130	4		20
Benzene	96		95		70-130	1		20
Toluene	94		97		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG556813-1 WG556813-2								
Ethylbenzene	95		94		70-130	1		20
Chloromethane	82		80		64-130	2		20
Bromomethane	68		67		39-139	1		20
Vinyl chloride	106		100		55-140	6		20
Chloroethane	113		108		55-138	5		20
1,1-Dichloroethene	94		94		61-145	0		20
trans-1,2-Dichloroethene	98		95		70-130	3		20
Trichloroethene	99		97		70-130	2		20
1,2-Dichlorobenzene	93		97		70-130	4		20
1,3-Dichlorobenzene	93		95		70-130	2		20
1,4-Dichlorobenzene	92		98		70-130	6		20
Methyl tert butyl ether	64		67		63-130	5		20
p/m-Xylene	97		97		70-130	0		20
o-Xylene	85		85		70-130	0		20
cis-1,2-Dichloroethene	96		97		70-130	1		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	103		111		64-130	7		20
Acrylonitrile	99		95		70-130	4		20
Isopropyl Ether	99		96		70-130	3		20
tert-Butyl Alcohol	80		92		70-130	14		20
Styrene	86		86		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG556813-1 WG556813-2								
Dichlorodifluoromethane	112		108		36-147	4		20
Acetone	96		93		58-148	3		20
Carbon disulfide	98		93		51-130	5		20
2-Butanone	100		94		63-138	6		20
Vinyl acetate	85		88		70-130	3		20
4-Methyl-2-pentanone	82		79		59-130	4		20
2-Hexanone	98		101		57-130	3		20
Bromochloromethane	96		93		70-130	3		20
2,2-Dichloropropane	**52**	Q	**56**	Q	63-133	7		20
1,2-Dibromoethane	102		105		70-130	3		20
1,3-Dichloropropane	99		104		70-130	5		20
1,1,1,2-Tetrachloroethane	100		107		64-130	7		20
Bromobenzene	99		98		70-130	1		20
n-Butylbenzene	98		108		53-136	10		20
sec-Butylbenzene	94		97		70-130	3		20
tert-Butylbenzene	91		95		70-130	4		20
o-Chlorotoluene	95		97		70-130	2		20
p-Chlorotoluene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	81		86		41-144	6		20
Hexachlorobutadiene	106		106		63-130	0		20
Isopropylbenzene	97		98		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG556813-1 WG556813-2								
p-Isopropyltoluene	93		103		70-130	10		20
Naphthalene	89		113		70-130	**24**	Q	20
n-Propylbenzene	91		95		69-130	4		20
1,2,3-Trichlorobenzene	92		107		70-130	15		20
1,2,4-Trichlorobenzene	96		109		70-130	13		20
1,3,5-Trimethylbenzene	96		107		64-130	11		20
1,2,4-Trimethylbenzene	93		104		70-130	11		20
Methyl Acetate	83		86		70-130	4		20
Ethyl Acetate	95		98		70-130	3		20
Cyclohexane	98		97		70-130	1		20
Ethyl-Tert-Butyl-Ether	**47**	Q	**51**	Q	70-130	8		20
1,4-Dioxane	84		84		56-162	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		99		70-130	1		20
1,4-Diethylbenzene	94		105		70-130	11		20
4-Ethyltoluene	92		98		70-130	6		20
1,2,4,5-Tetramethylbenzene	95		110		70-130	15		20
Ethyl ether	90		89		59-134	1		20
trans-1,4-Dichloro-2-butene	84		98		70-130	15		20
Methyl cyclohexane	96		93		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG556813-1 WG556813-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		112		70-130
Toluene-d8	113		110		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	106		105		70-130

Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG556997-1 WG556997-2								
Methylene chloride	94		92		70-130	2		20
1,1-Dichloroethane	103		104		70-130	1		20
Chloroform	103		104		70-130	1		20
2-Chloroethylvinyl ether	98		99		70-130	1		20
Carbon tetrachloride	82		87		63-132	6		20
1,2-Dichloropropane	98		99		70-130	1		20
Dibromochloromethane	94		99		63-130	5		20
1,1,2-Trichloroethane	103		106		70-130	3		20
Tetrachloroethene	108		107		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG556997-1 WG556997-2								
Chlorobenzene	97		98		75-130	1		20
Trichlorofluoromethane	118		119		62-150	1		20
1,2-Dichloroethane	109		109		70-130	0		20
1,1,1-Trichloroethane	93		97		67-130	4		20
Bromodichloromethane	105		108		67-130	3		20
trans-1,3-Dichloropropene	**69**	Q	75		70-130	8		20
cis-1,3-Dichloropropene	78		81		70-130	4		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	111		112		54-136	1		20
1,1,2,2-Tetrachloroethane	114		114		67-130	0		20
Benzene	97		98		70-130	1		20
Toluene	100		100		70-130	0		20
Ethylbenzene	93		94		70-130	1		20
Chloromethane	**52**	Q	**59**	Q	64-130	13		20
Bromomethane	47		52		39-139	10		20
Vinyl chloride	96		98		55-140	2		20
Chloroethane	117		115		55-138	2		20
1,1-Dichloroethene	95		96		61-145	1		20
trans-1,2-Dichloroethene	98		98		70-130	0		20
Trichloroethene	101		101		70-130	0		20
1,2-Dichlorobenzene	96		97		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG556997-1 WG556997-2								
1,3-Dichlorobenzene	96		96		70-130	0		20
1,4-Dichlorobenzene	97		97		70-130	0		20
Methyl tert butyl ether	69		75		63-130	8		20
p/m-Xylene	93		94		70-130	1		20
o-Xylene	81		81		70-130	0		20
cis-1,2-Dichloroethene	98		99		70-130	1		20
Dibromomethane	101		102		70-130	1		20
1,2,3-Trichloropropane	112		113		64-130	1		20
Acrylonitrile	81		99		70-130	20		20
Isopropyl Ether	101		103		70-130	2		20
tert-Butyl Alcohol	83		95		70-130	13		20
Styrene	82		84		70-130	2		20
Dichlorodifluoromethane	114		114		36-147	0		20
Acetone	92		92		58-148	0		20
Carbon disulfide	105		99		51-130	6		20
2-Butanone	92		93		63-138	1		20
Vinyl acetate	90		98		70-130	9		20
4-Methyl-2-pentanone	81		84		59-130	4		20
2-Hexanone	96		99		57-130	3		20
Bromochloromethane	96		98		70-130	2		20
2,2-Dichloropropane	**53**	Q	**59**	Q	63-133	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG556997-1 WG556997-2								
1,2-Dibromoethane	103		106		70-130	3		20
1,3-Dichloropropane	102		102		70-130	0		20
1,1,1,2-Tetrachloroethane	102		105		64-130	3		20
Bromobenzene	106		104		70-130	2		20
n-Butylbenzene	109		111		53-136	2		20
sec-Butylbenzene	97		96		70-130	1		20
tert-Butylbenzene	96		95		70-130	1		20
o-Chlorotoluene	98		98		70-130	0		20
p-Chlorotoluene	96		95		70-130	1		20
1,2-Dibromo-3-chloropropane	85		89		41-144	5		20
Hexachlorobutadiene	113		109		63-130	4		20
Isopropylbenzene	98		100		70-130	2		20
p-Isopropyltoluene	102		101		70-130	1		20
Naphthalene	96		114		70-130	17		20
n-Propylbenzene	94		93		69-130	1		20
1,2,3-Trichlorobenzene	101		109		70-130	8		20
1,2,4-Trichlorobenzene	106		110		70-130	4		20
1,3,5-Trimethylbenzene	105		109		64-130	4		20
1,2,4-Trimethylbenzene	104		108		70-130	4		20
Methyl Acetate	86		91		70-130	6		20
Ethyl Acetate	102		106		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-08 Batch: WG556997-1 WG556997-2								
Cyclohexane	98		97		70-130	1		20
Ethyl-Tert-Butyl-Ether	**50**	Q	**57**	Q	70-130	13		20
1,4-Dioxane	83		81		56-162	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	97		98		70-130	1		20
1,4-Diethylbenzene	106		108		70-130	2		20
4-Ethyltoluene	97		97		70-130	0		20
1,2,4,5-Tetramethylbenzene	99		103		70-130	4		20
Ethyl ether	90		92		59-134	2		20
trans-1,4-Dichloro-2-butene	70		75		70-130	7		20
Methyl cyclohexane	96		94		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	114		112		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	105		107		70-130

METALS

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-01	Date Collected:	08/17/12 07:40
Client ID:	MW-30	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Boron, Total	0.266		mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:21	EPA 3005A	1,6010C	BM
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:25	EPA 7470A	1,7470A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-01 D
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 07:40
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.177		mg/l	0.050	0.010	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Antimony, Total	0.0011	J	mg/l	0.0100	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.0025	0.0010	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Barium, Total	0.1787		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0025	0.0003	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Calcium, Total	159		mg/l	0.500	0.160	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Chromium, Total	0.0011	J	mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Copper, Total	0.0012	J	mg/l	0.0050	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Iron, Total	1.41		mg/l	0.250	0.065	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Magnesium, Total	85.2		mg/l	0.500	0.115	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Manganese, Total	0.2850		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Nickel, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Potassium, Total	59.8		mg/l	0.500	0.135	5	08/20/12 08:54	08/25/12 14:54	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.025	0.002	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Sodium, Total	87.9		mg/l	0.500	0.075	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0025	0.0002	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0250	0.0005	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK
Zinc, Total	0.0119	J	mg/l	0.0500	0.0060	5	08/20/12 08:54	08/25/12 14:54	EPA 3005A	1,6020A	AK
Total Hardness (by calculation) - Westborough Lab											
Hardness	750		mg/l	2.7	NA	5	08/20/12 08:54	08/24/12 15:23	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-02	Date Collected:	08/17/12 07:45
Client ID:	MW-31	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Boron, Total	0.213		mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:36	EPA 3005A	1,6010C	BM
Mercury, Total	0.0001	J	mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:27	EPA 7470A	1,7470A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-02 D
Client ID: MW-31
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 07:45
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	67.8		mg/l	2.00	0.400	200	08/20/12 08:54	08/25/12 15:04	EPA 3005A	1,6020A	AK
Antimony, Total	0.0012	J	mg/l	0.0100	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0317		mg/l	0.0025	0.0010	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Barium, Total	0.5820		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Beryllium, Total	0.0026		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0025	0.0003	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Calcium, Total	101		mg/l	0.500	0.160	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Chromium, Total	0.1266		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0701		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Copper, Total	0.0778		mg/l	0.0050	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Iron, Total	150		mg/l	0.250	0.065	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Lead, Total	0.0141		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Magnesium, Total	68.2		mg/l	0.500	0.115	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Manganese, Total	2.473		mg/l	0.0050	0.0010	10	08/20/12 08:54	08/25/12 15:07	EPA 3005A	1,6020A	AK
Nickel, Total	0.1432		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Potassium, Total	70.8		mg/l	0.500	0.135	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Selenium, Total	0.002	J	mg/l	0.025	0.002	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Silver, Total	0.0029		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Sodium, Total	56.6		mg/l	0.500	0.075	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0025	0.0002	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0890		mg/l	0.0250	0.0005	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK
Zinc, Total	0.2766		mg/l	0.1000	0.0120	10	08/20/12 08:54	08/25/12 15:07	EPA 3005A	1,6020A	AK
Total Hardness (by calculation) - Westborough Lab											
Hardness	530		mg/l	2.7	NA	5	08/20/12 08:54	08/24/12 15:28	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-04	Date Collected:	08/17/12 09:45
Client ID:	MW-34	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Boron, Total	0.085		mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:39	EPA 3005A	1,6010C	BM
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:29	EPA 7470A	1,7470A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-04 D
Client ID: MW-34
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 09:45
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.482		mg/l	0.050	0.010	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Antimony, Total	0.0005	J	mg/l	0.0100	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.0025	0.0010	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Barium, Total	0.0677		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0025	0.0003	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Calcium, Total	55.8		mg/l	0.500	0.160	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Chromium, Total	0.0014	J	mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Copper, Total	0.0011	J	mg/l	0.0050	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Iron, Total	1.33		mg/l	0.250	0.065	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Magnesium, Total	15.0		mg/l	0.500	0.115	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Manganese, Total	0.1208		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Nickel, Total	0.0008	J	mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Potassium, Total	4.03		mg/l	0.500	0.135	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.025	0.002	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Silver, Total	0.0008	J	mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Sodium, Total	11.4		mg/l	0.500	0.075	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0025	0.0002	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0250	0.0005	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Zinc, Total	0.0100	J	mg/l	0.0500	0.0060	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK
Total Hardness (by calculation) - Westborough Lab											
Hardness	200		mg/l	2.7	NA	5	08/20/12 08:54	08/24/12 15:31	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-05
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 08:45
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Boron, Total	0.049		mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:42	EPA 3005A	1,6010C	BM
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:30	EPA 7470A	1,7470A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-05 D
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 08:45
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.160		mg/l	0.050	0.010	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Antimony, Total	0.0007	J	mg/l	0.0100	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0081		mg/l	0.0025	0.0010	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Barium, Total	0.0568		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0025	0.0003	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Calcium, Total	67.4		mg/l	0.500	0.160	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Chromium, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Copper, Total	0.0012	J	mg/l	0.0050	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Iron, Total	0.370		mg/l	0.250	0.065	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Magnesium, Total	21.1		mg/l	0.500	0.115	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Manganese, Total	0.1080		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Nickel, Total	0.0007	J	mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Potassium, Total	4.73		mg/l	0.500	0.135	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.025	0.002	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Sodium, Total	9.80		mg/l	0.500	0.075	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0025	0.0002	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0250	0.0005	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Zinc, Total	0.0103	J	mg/l	0.0500	0.0060	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK
Total Hardness (by calculation) - Westborough Lab											
Hardness	260		mg/l	2.7	NA	5	08/20/12 08:54	08/24/12 15:34	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-06	Date Collected:	08/17/12 08:55
Client ID:	MW-37	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Boron, Total	0.075		mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:53	EPA 3005A	1,6010C	BM
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:36	EPA 7470A	1,7470A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-06 D
Client ID: MW-37
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 08:55
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.666		mg/l	0.050	0.010	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Antimony, Total	0.0006	J	mg/l	0.0100	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0054		mg/l	0.0025	0.0010	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Barium, Total	0.0644		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0025	0.0003	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Calcium, Total	49.5		mg/l	0.500	0.160	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Chromium, Total	0.0017	J	mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0006	J	mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Copper, Total	0.0024	J	mg/l	0.0050	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Iron, Total	1.49		mg/l	0.250	0.065	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Magnesium, Total	15.6		mg/l	0.500	0.115	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Manganese, Total	0.1234		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Nickel, Total	0.0015	J	mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Potassium, Total	5.38		mg/l	0.500	0.135	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.025	0.002	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Sodium, Total	12.6		mg/l	0.500	0.075	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0025	0.0002	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0250	0.0005	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Zinc, Total	0.0138	J	mg/l	0.0500	0.0060	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK
Total Hardness (by calculation) - Westborough Lab											
Hardness	190		mg/l	2.7	NA	5	08/20/12 08:54	08/24/12 15:36	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-07	Date Collected:	08/17/12 10:40
Client ID:	MW-35	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Boron, Total	0.104		mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:56	EPA 3005A	1,6010C	BM
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:38	EPA 7470A	1,7470A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-07 D
Client ID: MW-35
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 10:40
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.064		mg/l	0.050	0.010	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Antimony, Total	ND		mg/l	0.0100	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.0025	0.0010	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Barium, Total	0.0690		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0025	0.0003	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Calcium, Total	38.1		mg/l	0.500	0.160	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Chromium, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Copper, Total	0.0009	J	mg/l	0.0050	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Iron, Total	0.244	J	mg/l	0.250	0.065	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Magnesium, Total	10.9		mg/l	0.500	0.115	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Manganese, Total	0.1178		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Nickel, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Potassium, Total	20.7		mg/l	0.500	0.135	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.025	0.002	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Sodium, Total	14.6		mg/l	0.500	0.075	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0025	0.0002	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0250	0.0005	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Zinc, Total	0.0108	J	mg/l	0.0500	0.0060	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK
Total Hardness (by calculation) - Westborough Lab											
Hardness	140		mg/l	2.7	NA	5	08/20/12 08:54	08/24/12 15:39	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

SAMPLE RESULTS

Lab ID:	L1214815-08	Date Collected:	08/17/12 10:30
Client ID:	MW-39	Date Received:	08/17/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Boron, Total	0.017	J	mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:59	EPA 3005A	1,6010C	BM
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:40	EPA 7470A	1,7470A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-08 D
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 10:30
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.10		mg/l	0.050	0.010	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Antimony, Total	ND		mg/l	0.0100	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Arsenic, Total	ND		mg/l	0.0025	0.0010	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Barium, Total	0.0113		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0025	0.0003	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Calcium, Total	52.7		mg/l	0.500	0.160	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Chromium, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Copper, Total	0.0013	J	mg/l	0.0050	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Iron, Total	0.161	J	mg/l	0.250	0.065	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0050	0.0010	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Magnesium, Total	12.1		mg/l	0.500	0.115	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Manganese, Total	0.1053		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Nickel, Total	0.0005	J	mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Potassium, Total	0.732		mg/l	0.500	0.135	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.025	0.002	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0025	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Sodium, Total	2.54		mg/l	0.500	0.075	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0025	0.0002	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0250	0.0005	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Zinc, Total	0.0117	J	mg/l	0.0500	0.0060	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK
Total Hardness (by calculation) - Westborough Lab											
Hardness	180		mg/l	2.7	NA	5	08/20/12 08:54	08/24/12 15:42	EPA 3005A	1,6020A	AK

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02,04-08 Batch: WG556274-1										
Aluminum, Total	0.003	J	mg/l	0.010	0.002	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Antimony, Total	0.0016	J	mg/l	0.0020	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Arsenic, Total	ND		mg/l	0.0005	0.0002	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Barium, Total	0.0003	J	mg/l	0.0005	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.032	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Chromium, Total	0.0004	J	mg/l	0.0010	0.0002	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Copper, Total	0.0009	J	mg/l	0.0010	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Iron, Total	ND		mg/l	0.050	0.013	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.023	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Manganese, Total	0.0001	J	mg/l	0.0005	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Nickel, Total	0.0001	J	mg/l	0.0005	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.027	1	08/20/12 08:54	08/25/12 14:46	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Silver, Total	0.0003	J	mg/l	0.0005	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Sodium, Total	0.064	J	mg/l	0.100	0.015	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK
Zinc, Total	0.0021	J	mg/l	0.0100	0.0012	1	08/20/12 08:54	08/25/12 14:46	1,6020A	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness (by calculation) - Westborough Lab for sample(s): 01-02,04-08 Batch: WG556274-1										
Hardness	ND		mg/l	0.54	NA	1	08/20/12 08:54	08/24/12 14:40	1,6020A	AK

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02,04-08 Batch: WG556276-1										
Boron, Total	ND		mg/l	0.030	0.008	1	08/20/12 08:54	08/25/12 10:15	1,6010C	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02,04-08 Batch: WG556915-1										
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:13	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG556274-2								
Aluminum, Total	94		-		80-120	-		
Antimony, Total	96		-		80-120	-		
Arsenic, Total	99		-		80-120	-		
Barium, Total	96		-		80-120	-		
Beryllium, Total	99		-		80-120	-		
Cadmium, Total	113		-		80-120	-		
Calcium, Total	100		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Cobalt, Total	102		-		80-120	-		
Copper, Total	101		-		80-120	-		
Iron, Total	97		-		80-120	-		
Lead, Total	101		-		80-120	-		
Magnesium, Total	92		-		80-120	-		
Manganese, Total	99		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Potassium, Total	91		-		80-120	-		
Selenium, Total	108		-		80-120	-		
Silver, Total	96		-		80-120	-		
Sodium, Total	93		-		80-120	-		
Thallium, Total	93		-		80-120	-		
Vanadium, Total	103		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG556274-2					
Zinc, Total	107	-	80-120	-	
Total Hardness (by calculation) - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG556274-2					
Hardness	95	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG556276-2					
Boron, Total	106	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG556915-2					
Mercury, Total	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556274-4 QC Sample: L1214815-01 Client ID: MW-30												
Aluminum, Total	0.177	2	2.14	98		-	-		80-120	-		20
Antimony, Total	0.0011J	0.5	0.5048	101		-	-		80-120	-		20
Arsenic, Total	ND	0.12	0.1313	109		-	-		80-120	-		20
Barium, Total	0.1787	2	2.128	97		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.0553	110		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0571	112		-	-		80-120	-		20
Calcium, Total	159.	10	169	100		-	-		80-120	-		20
Chromium, Total	0.0011J	0.2	0.2026	101		-	-		80-120	-		20
Cobalt, Total	ND	0.5	0.5012	100		-	-		80-120	-		20
Copper, Total	0.0012J	0.25	0.2446	98		-	-		80-120	-		20
Iron, Total	1.41	1	2.49	108		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5232	102		-	-		80-120	-		20
Magnesium, Total	85.2	10	93.6	84		-	-		80-120	-		20
Manganese, Total	0.2850	0.5	0.7965	102		-	-		80-120	-		20
Nickel, Total	ND	0.5	0.4960	99		-	-		80-120	-		20
Potassium, Total	59.8	10	69.1	93		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.122	102		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0487	97		-	-		80-120	-		20
Sodium, Total	87.9	10	91.0	**31**	Q	-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1159	96		-	-		80-120	-		20
Vanadium, Total	ND	0.5	0.5318	106		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556274-4 QC Sample: L1214815-01 Client ID: MW-30										
Zinc, Total	0.0119J	0.5	0.5474	109		-	-	80-120	-	20
Total Hardness (by calculation) - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556274-4 QC Sample: L1214815-01 Client ID: MW-30										
Hardness	750	66.2	810	91		-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556276-4 QC Sample: L1214815-01 Client ID: MW-30										
Boron, Total	0.266	1	1.33	106		-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556915-4 QC Sample: L1214897-01 Client ID: MS Sample										
Mercury, Total	ND	0.001	0.0014	**137**	Q	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556274-3 QC Sample: L1214815-01 Client ID: MW-30						
Aluminum, Total	0.177	0.204	mg/l	14		20
Antimony, Total	0.0011J	0.0009J	mg/l	NC		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.1787	0.1788	mg/l	0		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	159.	160	mg/l	1		20
Chromium, Total	0.0011J	0.0011J	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	0.0012J	0.0012J	mg/l	NC		20
Iron, Total	1.41	1.51	mg/l	7		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	85.2	83.8	mg/l	2		20
Manganese, Total	0.2850	0.2865	mg/l	1		20
Nickel, Total	ND	0.0011J	mg/l	NC		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	87.9	84.4	mg/l	4		20
Thallium, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556274-3 QC Sample: L1214815-01 Client ID: MW-30					
Vanadium, Total	ND	ND	mg/l	NC	20
Total Hardness (by calculation) - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556274-3 QC Sample: L1214815-01 Client ID: MW-30					
Hardness	750	740	mg/l	1	20
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556274-3 QC Sample: L1214815-01 Client ID: MW-30					
Potassium, Total	59.8	59.0	mg/l	1	20
Zinc, Total	0.0119J	0.0091J	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556276-3 QC Sample: L1214815-01 Client ID: MW-30					
Boron, Total	0.266	0.267	mg/l	0	20
Total Metals - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556915-3 QC Sample: L1214897-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-01
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 07:40
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	43		A.P.C.U.	5.0	5.0	1	-	08/17/12 23:10	30,2120B	DE
Alkalinity, Total	260		mg CaCO3/L	2.0	NA	1	-	08/22/12 12:55	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/17/12 22:59	30,2520B	ML
Solids, Total Dissolved	1200		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:26	1,9010B/9012A	JO
Nitrogen, Ammonia	3.34		mg/l	0.075	0.017	1	08/22/12 10:24	08/23/12 21:01	44,350.1	AT
Nitrogen, Nitrate	0.14		mg/l	0.10	0.02	1	-	08/17/12 23:39	44,353.2	DB
Nitrogen, Total Kjeldahl	3.3		mg/l	0.30	0.06	1	08/22/12 08:00	08/23/12 20:34	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	31		mg/l	20	7.0	1	08/22/12 14:10	08/22/12 20:47	44,410.4	TL
BOD, 5 day	6.2		mg/l	2.0	NA	1	08/18/12 01:10	08/22/12 19:00	30,5210B	SL
Total Organic Carbon	4.3		mg/l	1.0	0.05	2	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.06		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 14:54	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 22:45	08/17/12 23:08	1,7196A	ML
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.5	0.68	50	-	08/27/12 18:38	44,300.0	AU
Chloride	520		mg/l	25	4.4	50	-	08/22/12 23:32	44,300.0	AU
Sulfate	28	J	mg/l	50	8.1	50	-	08/22/12 23:32	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-02
Client ID: MW-31
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 07:45
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
SALINITY	ND		SU	2.0	2.0	1	-	08/17/12 22:59	30,2520B	ML
Total Organic Carbon	12		mg/l	1.0	0.05	2	-	08/22/12 10:06	30,5310C	SD

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-04
Client ID: MW-34
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 09:45
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	17		A.P.C.U.	5.0	5.0	1	-	08/17/12 23:10	30,2120B	DE
Alkalinity, Total	190		mg CaCO3/L	2.0	NA	1	-	08/22/12 12:55	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/17/12 22:59	30,2520B	ML
Solids, Total Dissolved	210		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	0.005		mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:27	1,9010B/9012A	JO
Nitrogen, Ammonia	0.404		mg/l	0.075	0.017	1	08/22/12 10:24	08/23/12 21:04	44,350.1	AT
Nitrogen, Nitrate	0.11		mg/l	0.10	0.02	1	-	08/17/12 23:40	44,353.2	DB
Nitrogen, Total Kjeldahl	0.43		mg/l	0.30	0.06	1	08/22/12 08:00	08/23/12 20:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	08/22/12 14:10	08/22/12 20:47	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/18/12 01:10	08/22/12 19:00	30,5210B	SL
Total Organic Carbon	1.4		mg/l	1.0	0.05	2	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.07		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 14:55	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 22:45	08/17/12 23:10	1,7196A	ML
Anions by Ion Chromatography - Westborough Lab										
Bromide	2.1	J	mg/l	2.5	0.68	50	-	08/27/12 18:50	44,300.0	AU
Chloride	12	J	mg/l	25	4.4	50	-	08/22/12 23:44	44,300.0	AU
Sulfate	39	J	mg/l	50	8.1	50	-	08/22/12 23:44	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-05
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 08:45
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/17/12 23:10	30,2120B	DE
Alkalinity, Total	220		mg CaCO3/L	2.0	NA	1	-	08/22/12 12:55	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/17/12 22:59	30,2520B	ML
Solids, Total Dissolved	280		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:31	1,9010B/9012A	JO
Nitrogen, Ammonia	0.248		mg/l	0.075	0.017	1	08/22/12 10:24	08/23/12 21:05	44,350.1	AT
Nitrogen, Nitrate	0.10		mg/l	0.10	0.02	1	-	08/17/12 23:41	44,353.2	DB
Nitrogen, Total Kjeldahl	0.40		mg/l	0.30	0.06	1	08/22/12 08:00	08/23/12 20:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	15	J	mg/l	20	7.0	1	08/22/12 14:10	08/22/12 20:48	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/18/12 01:10	08/22/12 19:00	30,5210B	SL
Total Organic Carbon	1.6		mg/l	1.0	0.05	2	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.05		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 14:55	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 22:45	08/17/12 23:11	1,7196A	ML
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.5	0.68	50	-	08/27/12 19:02	44,300.0	AU
Chloride	ND		mg/l	25	4.4	50	-	08/22/12 23:56	44,300.0	AU
Sulfate	44	J	mg/l	50	8.1	50	-	08/22/12 23:56	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-06
Client ID: MW-37
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 08:55
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	6.0		A.P.C.U.	5.0	5.0	1	-	08/17/12 23:10	30,2120B	DE
Alkalinity, Total	180		mg CaCO3/L	2.0	NA	1	-	08/22/12 12:55	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/17/12 22:59	30,2520B	ML
Solids, Total Dissolved	180		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:31	1,9010B/9012A	JO
Nitrogen, Ammonia	0.331		mg/l	0.075	0.017	1	08/22/12 10:24	08/23/12 21:06	44,350.1	AT
Nitrogen, Nitrate	0.098	J	mg/l	0.100	0.018	1	-	08/17/12 23:42	44,353.2	DB
Nitrogen, Total Kjeldahl	0.45		mg/l	0.30	0.06	1	08/22/12 08:00	08/23/12 20:36	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	13	J	mg/l	20	7.0	1	08/22/12 14:10	08/22/12 20:48	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/18/12 01:10	08/22/12 19:00	30,5210B	SL
Total Organic Carbon	1.2		mg/l	0.50	0.03	1	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.03		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 18:01	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 22:45	08/17/12 23:11	1,7196A	ML
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.5	0.68	50	-	08/27/12 19:14	44,300.0	AU
Chloride	ND		mg/l	25	4.4	50	-	08/23/12 00:08	44,300.0	AU
Sulfate	39	J	mg/l	50	8.1	50	-	08/23/12 00:08	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-07
Client ID: MW-35
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 10:40
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	22		A.P.C.U.	5.0	5.0	1	-	08/17/12 23:10	30,2120B	DE
Alkalinity, Total	170		mg CaCO3/L	2.0	NA	1	-	08/22/12 12:55	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/17/12 22:59	30,2520B	ML
Solids, Total Dissolved	170		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:32	1,9010B/9012A	JO
Nitrogen, Ammonia	0.706		mg/l	0.075	0.017	1	08/22/12 10:24	08/23/12 21:09	44,350.1	AT
Nitrogen, Nitrate	0.099	J	mg/l	0.100	0.018	1	-	08/17/12 23:42	44,353.2	DB
Nitrogen, Total Kjeldahl	0.88		mg/l	0.30	0.06	1	08/22/12 08:00	08/23/12 20:37	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	08/22/12 14:10	08/22/12 20:48	44,410.4	TL
BOD, 5 day	8.2		mg/l	2.0	NA	1	08/18/12 01:10	08/22/12 19:00	30,5210B	SL
Total Organic Carbon	2.4		mg/l	0.50	0.03	1	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.12		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 18:02	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 22:45	08/17/12 23:12	1,7196A	ML
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.5	0.68	50	-	08/27/12 19:26	44,300.0	AU
Chloride	ND		mg/l	25	4.4	50	-	08/23/12 00:20	44,300.0	AU
Sulfate	31	J	mg/l	50	8.1	50	-	08/23/12 00:20	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

SAMPLE RESULTS

Lab ID: L1214815-08
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/17/12 10:30
Date Received: 08/17/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	38		A.P.C.U.	5.0	5.0	1	-	08/17/12 23:10	30,2120B	DE
Alkalinity, Total	160		mg CaCO3/L	2.0	NA	1	-	08/22/12 12:55	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/17/12 22:59	30,2520B	ML
Solids, Total Dissolved	150		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:33	1,9010B/9012A	JO
Nitrogen, Ammonia	0.073	J	mg/l	0.075	0.017	1	08/22/12 10:24	08/23/12 21:10	44,350.1	AT
Nitrogen, Nitrate	0.11		mg/l	0.10	0.02	1	-	08/17/12 23:45	44,353.2	DB
Nitrogen, Total Kjeldahl	0.24	J	mg/l	0.30	0.06	1	08/22/12 08:00	08/23/12 20:38	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	15	J	mg/l	20	7.0	1	08/22/12 14:10	08/22/12 20:48	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/18/12 01:10	08/22/12 19:00	30,5210B	SL
Total Organic Carbon	0.99		mg/l	0.50	0.03	1	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.07		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 18:03	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 22:45	08/17/12 23:12	1,7196A	ML
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.5	0.68	50	-	08/27/12 19:38	44,300.0	AU
Chloride	10	J	mg/l	25	4.4	50	-	08/23/12 01:08	44,300.0	AU
Sulfate	22	J	mg/l	50	8.1	50	-	08/23/12 01:08	44,300.0	AU

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG555594-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	08/17/12 23:27	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG555609-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 22:45	08/17/12 23:07	1,7196A	ML
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG555611-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/18/12 01:10	08/22/12 19:00	30,5210B	SL
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG555857-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG556027-1										
Cyanide, Total	ND		mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:21	1,9010B/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG556250-1										
Nitrogen, Ammonia	0.018	J	mg/l	0.075	0.017	1	08/22/12 10:24	08/23/12 20:48	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG556256-1										
Nitrogen, Total Kjeldahl	0.09	J	mg/l	0.30	0.02	1	08/22/12 08:00	08/23/12 20:23	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG556375-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	08/22/12 14:10	08/22/12 20:46	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG556424-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	08/22/12 12:55	30,2320B	JV
General Chemistry - Westborough Lab for sample(s): 01-02,04-08 Batch: WG556460-1										
Total Organic Carbon	ND		mg/l	0.50	0.03	1	-	08/22/12 10:06	30,5310C	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 01,04-08 Batch: WG556734-1										
Chloride	0.24	J	mg/l	0.50	0.09	1	-	08/22/12 20:43	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.16	1	-	08/22/12 20:43	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01,04-08 Batch: WG557077-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 14:51	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab for sample(s): 01,04-08 Batch: WG557386-1										
Bromide	ND		mg/l	0.05	0.01	1	-	08/27/12 18:02	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG555594-2								
Nitrogen, Nitrate	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG555609-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG555611-2								
BOD, 5 day	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG555614-1								
SALINITY	100		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG555857-2								
Solids, Total Dissolved	93		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG556027-2 WG556027-3								
Cyanide, Total	104		104		80-120	0		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG556250-2								
Nitrogen, Ammonia	96		-		80-120	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG556256-2					
Nitrogen, Total Kjeldahl	100	-	85-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG556375-2					
Chemical Oxygen Demand	100	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG556424-2					
Alkalinity, Total	100	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG556460-2					
Total Organic Carbon	91	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,04-08 Batch: WG556734-2					
Chloride	105	-	90-110	-	
Sulfate	110	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 Batch: WG557077-2					
Phenolics, Total	108	-	82-111	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,04-08 Batch: WG557386-2					
Bromide	90	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555594-4 QC Sample: L1214755-01 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	4.1	103		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555609-4 QC Sample: L1214815-01 Client ID: MW-30												
Chromium, Hexavalent	ND	0.1	0.102	102		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555611-4 QC Sample: L1214815-01 Client ID: MW-30												
BOD, 5 day	6.2	100	110	108		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556027-4 WG556027-5 QC Sample: L1214815-04 Client ID: MW-34												
Cyanide, Total	0.005	0.2	0.226	113		0.224	112		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556250-4 QC Sample: L1214815-01 Client ID: MW-30												
Nitrogen, Ammonia	3.34	4	6.92	90		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556256-4 QC Sample: L1214815-08 Client ID: MW-39												
Nitrogen, Total Kjeldahl	0.24J	8	8.1	101		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556375-3 QC Sample: L1214929-05 Client ID: MS Sample												
Chemical Oxygen Demand	ND	238	240	100		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556424-3 QC Sample: L1214895-02 Client ID: MS Sample												
Alkalinity, Total	120	100	210	90		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556460-3 QC Sample: L1214897-01 Client ID: MS Sample												
Total Organic Carbon	23.	32	56	103		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556734-3 QC Sample: L1214983-03 Client ID: MS Sample									
Chloride	ND	4	4.3	108	-	-	40-151	-	18
Sulfate	0.42J	8	8.8	110	-	-	60-140	-	20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG557077-4 QC Sample: L1214815-01 Client ID: MW-30									
Phenolics, Total	0.06	0.8	0.94	110	-	-	77-124	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG557386-3 QC Sample: L1214983-03 Client ID: MS Sample									
Bromide	ND	0.4	0.43	108	-	-	77-119	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555594-3 QC Sample: L1214755-01 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555609-3 QC Sample: L1214815-01 Client ID: MW-30						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555611-3 QC Sample: L1214793-01 Client ID: DUP Sample						
BOD, 5 day	47.	55	mg/l	16		35
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555612-2 QC Sample: L1214815-05 Client ID: MW-36						
Color, Apparent	ND	ND	A.P.C.U.	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG555614-2 QC Sample: L1214815-01 Client ID: MW-30						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG555857-3 QC Sample: L1214482-06 Client ID: DUP Sample						
Solids, Total Dissolved	24000	24000	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556250-3 QC Sample: L1214815-01 Client ID: MW-30						
Nitrogen, Ammonia	3.34	3.42	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556256-3 QC Sample: L1214815-08 Client ID: MW-39						
Nitrogen, Total Kjeldahl	0.24J	0.26J	mg/l	NC		24
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556375-4 QC Sample: L1214929-05 Client ID: DUP Sample						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556424-4 QC Sample: L1214895-02 Client ID: DUP Sample						
Alkalinity, Total	120	120	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG556460-4 QC Sample: L1214897-01 Client ID: DUP Sample						
Total Organic Carbon	23.	24	mg/l	4		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG556734-4 QC Sample: L1214983-03 Client ID: DUP Sample						
Chloride	ND	ND	mg/l	NC		18
Sulfate	0.42J	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG557077-3 QC Sample: L1214733-02 Client ID: DUP Sample						
Phenolics, Total	0.07	0.09	mg/l	**25**	Q	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01,04-08 QC Batch ID: WG557386-4 QC Sample: L1214983-03 Client ID: DUP Sample						
Bromide	ND	ND	mg/l	NC		20

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
D	Absent
B	Absent
C	Absent
E	Absent
F	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214815-01A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-01B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-01C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-01D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-01E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-01F	Amber 1000ml H2SO4 preserved	C	<2	4	Y	Absent	TPHENOL-420(28)
L1214815-01G	Plastic 1000ml unpreserved	C	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1214815-01H	Amber 500ml unpreserved	C	7	4	Y	Absent	SALINITY(1)
L1214815-01I	Plastic 500ml unpreserved	C	7	4	Y	Absent	BOD-5210(2)
L1214815-01J	Plastic 500ml H2SO4 preserved	C	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-01K	Plastic 500ml H2SO4 preserved	C	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-01L	Plastic 250ml HNO3 preserved	C	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HARDT-6020(180),HG-T(28),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214815-01M	Plastic 250ml NaOH preserved	C	>12	4	Y	Absent	TCN-9010(14)
L1214815-01N	Plastic 250ml unpreserved	C	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214815-01O	Plastic 250ml unpreserved	C	7	4	Y	Absent	ALK-T-2320(14)
L1214815-02A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-02B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-02C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-02D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-02E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-02H	Amber 500ml unpreserved	B	7	3	Y	Absent	SALINITY(1)
L1214815-02I	Plastic 1000ml unpreserved	B	7	3	Y	Absent	-
L1214815-02J	Plastic 250ml unpreserved	B	7	3	Y	Absent	-
L1214815-02L	Plastic 500ml HNO3 preserved	B	<2	3	Y	Absent	B-TI(180),AG-6020T(180),HARDT-6020(180)
L1214815-03A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-03B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-04A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-04B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-04C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-04D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-04E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-04F	Amber 1000ml H2SO4 preserved	A	<2	4	Y	Absent	TPHENOL-420(28)
L1214815-04G	Plastic 1000ml unpreserved	A	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1214815-04H	Amber 500ml unpreserved	A	7	4	Y	Absent	SALINITY(1)
L1214815-04I	Plastic 500ml unpreserved	A	7	4	Y	Absent	BOD-5210(2)
L1214815-04J	Plastic 500ml H2SO4 preserved	A	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-04K	Plastic 500ml H2SO4 preserved	A	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-04L	Plastic 250ml HNO3 preserved	A	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HARDT-6020(180),HG-T(28),MG-6020T(180),CO-6020T(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214815-04M	Plastic 250ml NaOH preserved	A	>12	4	Y	Absent	TCN-9010(14)
L1214815-04N	Plastic 250ml unpreserved	A	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214815-04O	Plastic 250ml unpreserved	A	7	4	Y	Absent	ALK-T-2320(14)
L1214815-05A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-05B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-05C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-05D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-05E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-05F	Amber 1000ml H2SO4 preserved	D	<2	2	Y	Absent	TPHENOL-420(28)
L1214815-05G	Plastic 1000ml unpreserved	D	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1214815-05H	Amber 500ml unpreserved	D	7	2	Y	Absent	SALINITY(1)
L1214815-05I	Plastic 500ml unpreserved	D	7	2	Y	Absent	BOD-5210(2)
L1214815-05J	Plastic 500ml H2SO4 preserved	D	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-05K	Plastic 500ml H2SO4 preserved	D	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-05L	Plastic 250ml HNO3 preserved	D	<2	2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HARDT-6020(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1214815-05M	Plastic 250ml NaOH preserved	D	>12	2	Y	Absent	TCN-9010(14)
L1214815-05N	Plastic 250ml unpreserved	D	7	2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214815-05O	Plastic 250ml unpreserved	D	7	2	Y	Absent	ALK-T-2320(14)
L1214815-06A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-06B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-06C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-06D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-06E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-06F	Amber 1000ml H2SO4 preserved	E	<2	2	Y	Absent	TPHENOL-420(28)
L1214815-06G	Plastic 1000ml unpreserved	E	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214815-06H	Amber 500ml unpreserved	E	7	2	Y	Absent	SALINITY(1)
L1214815-06I	Plastic 500ml unpreserved	E	7	2	Y	Absent	BOD-5210(2)
L1214815-06J	Plastic 500ml H2SO4 preserved	E	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-06K	Plastic 500ml H2SO4 preserved	E	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-06L	Plastic 250ml HNO3 preserved	E	<2	2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HARDT-6020(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1214815-06M	Plastic 250ml NaOH preserved	E	>12	2	Y	Absent	TCN-9010(14)
L1214815-06N	Plastic 250ml unpreserved	E	7	2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214815-06O	Plastic 250ml unpreserved	E	7	2	Y	Absent	ALK-T-2320(14)
L1214815-07A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-07B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-07C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-07D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-07E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-07F	Amber 1000ml H2SO4 preserved	F	<2	4	Y	Absent	TPHENOL-420(28)
L1214815-07G	Plastic 1000ml unpreserved	F	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1214815-07H	Amber 500ml unpreserved	F	7	4	Y	Absent	SALINITY(1)
L1214815-07I	Plastic 500ml unpreserved	F	7	4	Y	Absent	BOD-5210(2)
L1214815-07J	Plastic 500ml H2SO4 preserved	F	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-07K	Plastic 500ml H2SO4 preserved	F	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214815-07L	Plastic 250ml HNO3 preserved	F	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HARDT-6020(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1214815-07M	Plastic 250ml NaOH preserved	F	>12	4	Y	Absent	TCN-9010(14)
L1214815-07N	Plastic 250ml unpreserved	F	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214815-07O	Plastic 250ml unpreserved	F	7	4	Y	Absent	ALK-T-2320(14)
L1214815-08A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-08B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-08C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1214815-08D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-08E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1214815-08F	Amber 1000ml H2SO4 preserved	B	<2	3	Y	Absent	TPHENOL-420(28)
L1214815-08G	Plastic 1000ml unpreserved	B	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1214815-08H	Amber 500ml unpreserved	B	7	3	Y	Absent	SALINITY(1)
L1214815-08I	Plastic 500ml unpreserved	B	7	3	Y	Absent	BOD-5210(2)
L1214815-08J	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-08K	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214815-08L	Plastic 250ml HNO3 preserved	B	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HARDT-6020(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1214815-08M	Plastic 250ml NaOH preserved	B	>12	3	Y	Absent	TCN-9010(14)
L1214815-08N	Plastic 250ml unpreserved	B	7	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214815-08O	Plastic 250ml unpreserved	B	7	3	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214815
Report Date: 08/28/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)

Container Comments

L1214815-05L

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1214815
Project Number:	08.8696	**Report Date:**	08/28/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1214815

Project Number: 08.8696 **Report Date:** 08/28/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1214815
Project Number: 08.8696 **Report Date:** 08/28/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/17/12

ALPHA Job #: L1214815

Client Information

Client: CT Male Associates

Address: 50 Century Hill Dr Latham, NY

Phone: 518-786-7400

Fax: 518-786-7299

Email: K.moline@ctmale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #: 08.8696

Project Manager: Kirk Moline

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8/31/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

NYS DEC Part 360 Baseline Parameters plus Salinity

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Cl, Br, SO_4, TDS, NO_3	BOD	Hexachrome, Color	Alkalinity	Total Recoverable Phenolics	TOC	Salinity	Total Cyanide	COD, NH_3, TKN	VOC (Baseline List)	Sample Specific Comments	TOTAL # BOTTLES
14815.1	MW-30	8/17/12	0740	GW	AB	X	X	X	X	X	X	X	X	X	X	X		15
2	MW-31	8/17/12	0745	GW	JD	X						X	X			X		7
3	transport blank	—	—	—	—											X		2
4	MW-34	8/17/12	0945	GW	AB	X	X	X	X	X	X	X	X	X	X	X		15
5	MW-36	↓	0845	↓	AB	X	X	X	X	X	X	X	X	X	X	X		15
6	MW-37	↓	0855	↓	JD	X	X	X	X	X	X	X	X	X	X	X		15
7	MW-35	↓	1040	↓	AB	X	X	X	X	X	X	X	X	X	X	X		15
8	MW-39	8/17/12	1030	GW	JD	X	X	X	X	X	X	X	X	X	X	X		15

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type	P	P	D	P	P	A	V	A	P	P	V
Preservative	C	A	A	A	A	D	D	A	E	D	B

Relinquished By:	Date/Time	Received By:	Date/Time
	8/17/12 1547		8/17/12 1547
	8/17/12 1800		8/17/12 1800
Kyle Cardman	8/17/12 2048	Kyle Cardman	8/17/12 2048

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:08281215:07

ANALYTICAL REPORT

Lab Number:	L1214733
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08.8696
Report Date:	08/27/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1214733-01	MW-32	READING, NY	08/16/12 08:55
L1214733-02	MW-33	READING, NY	08/16/12 09:10
L1214733-03	TRANSPORT BLANK	READING, NY	08/16/12 00:00

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1214733
Project Number: 08.8696 **Report Date:** 08/27/12

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1214733-03: The Transport Blank has results for acetone present above the reporting limit. The sample vial was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

Metals

The WG556115-4 MS recoveries for Calcium (130%) and Magnesium (71%), performed on L1214733-01, do not apply because the sample concentration is greater than four times the spike amount added.

The WG556115-4 MS recovery, performed on L1214733-01, is above the acceptance criteria for Iron (170%). A post digestion spike was performed with an acceptable recovery of 96%.

The WG556115-3 Laboratory Duplicate RPD, performed on L1214733-01, is above the acceptance criteria for Copper (21%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

The WG556115-3 Laboratory Duplicate RPD, performed on L1214733-01, is above the acceptance criteria for Aluminum (36%). This has been attributed to the sample matrix.

Phenolics, Total

The WG557077-3 Laboratory Duplicate RPD (25%), performed on L1214733-02, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Elizabeth A. Simmons Elizabeth Simmons

Title: Technical Director/Representative Date: 08/27/12

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214733
Report Date: 08/27/12

SAMPLE RESULTS

Lab ID:	L1214733-01	Date Collected:	08/16/12 08:55
Client ID:	MW-32	Date Received:	08/16/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/23/12 16:42		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

SAMPLE RESULTS

Lab ID: L1214733-01 Date Collected: 08/16/12 08:55

Client ID: MW-32 Date Received: 08/16/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.1	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214733
Report Date: 08/27/12

SAMPLE RESULTS

Lab ID:	L1214733-02	Date Collected:	08/16/12 09:10
Client ID:	MW-33	Date Received:	08/16/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/23/12 17:16		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

SAMPLE RESULTS

Lab ID: L1214733-02 Date Collected: 08/16/12 09:10

Client ID: MW-33 Date Received: 08/16/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	117		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

SAMPLE RESULTS

Lab ID:	L1214733-03	Date Collected:	08/16/12 00:00
Client ID:	TRANSPORT BLANK	Date Received:	08/16/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/23/12 17:50		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

SAMPLE RESULTS

Lab ID: L1214733-03 Date Collected: 08/16/12 00:00

Client ID: TRANSPORT BLANK Date Received: 08/16/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	4.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/23/12 09:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG556813-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/23/12 09:30
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG556813-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG556813-1 WG556813-2								
Methylene chloride	92		90		70-130	2		20
1,1-Dichloroethane	102		100		70-130	2		20
Chloroform	102		102		70-130	0		20
2-Chloroethylvinyl ether	98		99		70-130	1		20
Carbon tetrachloride	84		86		63-132	2		20
1,2-Dichloropropane	98		99		70-130	1		20
Dibromochloromethane	96		101		63-130	5		20
1,1,2-Trichloroethane	104		108		70-130	4		20
Tetrachloroethene	103		107		70-130	4		20
Chlorobenzene	96		98		75-130	2		20
Trichlorofluoromethane	117		116		62-150	1		20
1,2-Dichloroethane	107		107		70-130	0		20
1,1,1-Trichloroethane	91		93		67-130	2		20
Bromodichloromethane	106		106		67-130	0		20
trans-1,3-Dichloropropene	73		79		70-130	8		20
cis-1,3-Dichloropropene	79		82		70-130	4		20
1,1-Dichloropropene	99		99		70-130	0		20
Bromoform	108		115		54-136	6		20
1,1,2,2-Tetrachloroethane	106		110		67-130	4		20
Benzene	96		95		70-130	1		20
Toluene	94		97		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG556813-1 WG556813-2								
Ethylbenzene	95		94		70-130	1		20
Chloromethane	82		80		64-130	2		20
Bromomethane	68		67		39-139	1		20
Vinyl chloride	106		100		55-140	6		20
Chloroethane	113		108		55-138	5		20
1,1-Dichloroethene	94		94		61-145	0		20
trans-1,2-Dichloroethene	98		95		70-130	3		20
Trichloroethene	99		97		70-130	2		20
1,2-Dichlorobenzene	93		97		70-130	4		20
1,3-Dichlorobenzene	93		95		70-130	2		20
1,4-Dichlorobenzene	92		98		70-130	6		20
Methyl tert butyl ether	64		67		63-130	5		20
p/m-Xylene	97		97		70-130	0		20
o-Xylene	85		85		70-130	0		20
cis-1,2-Dichloroethene	96		97		70-130	1		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	103		111		64-130	7		20
Acrylonitrile	99		95		70-130	4		20
Isopropyl Ether	99		96		70-130	3		20
tert-Butyl Alcohol	80		92		70-130	14		20
Styrene	86		86		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG556813-1 WG556813-2								
Dichlorodifluoromethane	112		108		36-147	4		20
Acetone	96		93		58-148	3		20
Carbon disulfide	98		93		51-130	5		20
2-Butanone	100		94		63-138	6		20
Vinyl acetate	85		88		70-130	3		20
4-Methyl-2-pentanone	82		79		59-130	4		20
2-Hexanone	98		101		57-130	3		20
Bromochloromethane	96		93		70-130	3		20
2,2-Dichloropropane	**52**	Q	**56**	Q	63-133	7		20
1,2-Dibromoethane	102		105		70-130	3		20
1,3-Dichloropropane	99		104		70-130	5		20
1,1,1,2-Tetrachloroethane	100		107		64-130	7		20
Bromobenzene	99		98		70-130	1		20
n-Butylbenzene	98		108		53-136	10		20
sec-Butylbenzene	94		97		70-130	3		20
tert-Butylbenzene	91		95		70-130	4		20
o-Chlorotoluene	95		97		70-130	2		20
p-Chlorotoluene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	81		86		41-144	6		20
Hexachlorobutadiene	106		106		63-130	0		20
Isopropylbenzene	97		98		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG556813-1 WG556813-2								
p-Isopropyltoluene	93		103		70-130	10		20
Naphthalene	89		113		70-130	**24**	Q	20
n-Propylbenzene	91		95		69-130	4		20
1,2,3-Trichlorobenzene	92		107		70-130	15		20
1,2,4-Trichlorobenzene	96		109		70-130	13		20
1,3,5-Trimethylbenzene	96		107		64-130	11		20
1,2,4-Trimethylbenzene	93		104		70-130	11		20
Methyl Acetate	83		86		70-130	4		20
Ethyl Acetate	95		98		70-130	3		20
Cyclohexane	98		97		70-130	1		20
Ethyl-Tert-Butyl-Ether	**47**	Q	**51**	Q	70-130	8		20
1,4-Dioxane	84		84		56-162	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	98		99		70-130	1		20
1,4-Diethylbenzene	94		105		70-130	11		20
4-Ethyltoluene	92		98		70-130	6		20
1,2,4,5-Tetramethylbenzene	95		110		70-130	15		20
Ethyl ether	90		89		59-134	1		20
trans-1,4-Dichloro-2-butene	84		98		70-130	15		20
Methyl cyclohexane	96		93		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT

Project Number: 08.8696

Lab Number: L1214733

Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG556813-1 WG556813-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	117		112		70-130
Toluene-d8	113		110		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	106		105		70-130

METALS

Project Name:	US SALT	**Lab Number:**	L1214733
Project Number:	08.8696	**Report Date:**	08/27/12

SAMPLE RESULTS

Lab ID:	L1214733-01	Date Collected:	08/16/12 08:55
Client ID:	MW-32	Date Received:	08/16/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Antimony, Total	0.0007		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0026		mg/l	0.0005	0.0002	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Barium, Total	0.0593		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Boron, Total	0.136		mg/l	0.030	0.008	1	08/17/12 09:28	08/24/12 20:26	EPA 3005A	1,6010C	BM
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Chromium, Total	0.0015		mg/l	0.0010	0.0002	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0005	J	mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Copper, Total	0.001		mg/l	0.0010	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Iron, Total	4.20		mg/l	0.050	0.013	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Lead, Total	0.0002	J	mg/l	0.0010	0.0002	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Manganese, Total	0.4067		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:21	EPA 7470A	1,7470A	AK
Nickel, Total	0.0011		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Potassium, Total	8.39		mg/l	0.100	0.027	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Silver, Total	0.0006		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Sodium, Total	30.7		mg/l	0.100	0.015	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Zinc, Total	0.0146		mg/l	0.0100	0.0012	1	08/17/12 09:28	08/24/12 10:22	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	630		mg/l	0.66	0.24	1	08/17/12 09:28	08/24/12 20:26	EPA 3005A	1,6010C	BM

Project Name:	US SALT	**Lab Number:**	L1214733
Project Number:	08.8696	**Report Date:**	08/27/12

SAMPLE RESULTS

Lab ID:	L1214733-01 D	Date Collected:	08/16/12 08:55
Client ID:	MW-32	Date Received:	08/16/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.414		mg/l	0.050	0.010	5	08/17/12 09:28	08/24/12 10:51	EPA 3005A	1,6020A	AK
Calcium, Total	152		mg/l	0.500	0.160	5	08/17/12 09:28	08/24/12 10:51	EPA 3005A	1,6020A	AK
Magnesium, Total	65.2		mg/l	0.500	0.115	5	08/17/12 09:28	08/24/12 10:51	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214733
Report Date: 08/27/12

SAMPLE RESULTS

Lab ID: L1214733-02
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/16/12 09:10
Date Received: 08/16/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.025		mg/l	0.010	0.002	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Antimony, Total	0.0003	J	mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0041		mg/l	0.0005	0.0002	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Barium, Total	0.0483		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Boron, Total	0.145		mg/l	0.030	0.008	1	08/17/12 09:28	08/24/12 20:38	EPA 3005A	1,6010C	BM
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Chromium, Total	0.0004	J	mg/l	0.0010	0.0002	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Copper, Total	0.0004	J	mg/l	0.0010	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Iron, Total	1.09		mg/l	0.050	0.013	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Manganese, Total	0.3895		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:23	EPA 7470A	1,7470A	AK
Nickel, Total	0.0002	J	mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Potassium, Total	2.84		mg/l	0.100	0.027	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Silver, Total	0.0008		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Sodium, Total	34.1		mg/l	0.100	0.015	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Zinc, Total	0.0100		mg/l	0.0100	0.0012	1	08/17/12 09:28	08/24/12 10:32	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	620		mg/l	0.66	0.24	1	08/17/12 09:28	08/24/12 20:38	EPA 3005A	1,6010C	BM

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1214733
Report Date: 08/27/12

SAMPLE RESULTS

Lab ID: L1214733-02 D
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/16/12 09:10
Date Received: 08/16/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	151		mg/l	0.500	0.160	5	08/17/12 09:28	08/24/12 10:56	EPA 3005A	1,6020A	AK
Magnesium, Total	57.8		mg/l	0.500	0.115	5	08/17/12 09:28	08/24/12 10:56	EPA 3005A	1,6020A	AK

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG556115-1										
Aluminum, Total	ND		mg/l	0.010	0.002	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Antimony, Total	0.0003	J	mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Arsenic, Total	ND		mg/l	0.0005	0.0002	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Barium, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.032	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Chromium, Total	0.0006	J	mg/l	0.0010	0.0002	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Copper, Total	0.0006	J	mg/l	0.0010	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Iron, Total	ND		mg/l	0.050	0.013	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.023	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Manganese, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Nickel, Total	ND		mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.027	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Silver, Total	0.0002	J	mg/l	0.0005	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Sodium, Total	0.027	J	mg/l	0.100	0.015	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK
Zinc, Total	ND		mg/l	0.0100	0.0012	1	08/17/12 09:28	08/24/12 10:14	1,6020A	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG556261-1										
Boron, Total	ND		mg/l	0.030	0.008	1	08/17/12 09:28	08/24/12 20:20	1,6010C	BM

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-02 Batch: WG556261-1										
Hardness	ND		mg/l	0.66	0.24	1	08/17/12 09:28	08/24/12 20:20	1,6010C	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG556915-1										
Mercury, Total	ND		mg/l	0.0002	0.0001	1	08/24/12 16:51	08/25/12 16:13	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG556115-2								
Aluminum, Total	92		-		80-120	-		
Antimony, Total	98		-		80-120	-		
Arsenic, Total	104		-		80-120	-		
Barium, Total	97		-		80-120	-		
Beryllium, Total	105		-		80-120	-		
Cadmium, Total	105		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	99		-		80-120	-		
Cobalt, Total	101		-		80-120	-		
Copper, Total	102		-		80-120	-		
Iron, Total	98		-		80-120	-		
Lead, Total	100		-		80-120	-		
Magnesium, Total	93		-		80-120	-		
Manganese, Total	99		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	90		-		80-120	-		
Selenium, Total	109		-		80-120	-		
Silver, Total	88		-		80-120	-		
Sodium, Total	89		-		80-120	-		
Thallium, Total	92		-		80-120	-		
Vanadium, Total	104		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG556115-2					
Zinc, Total	105	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG556261-2					
Boron, Total	106	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 Batch: WG556261-2					
Hardness	97	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG556915-2					
Mercury, Total	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556115-4 QC Sample: L1214733-01 Client ID: MW-32												
Aluminum, Total	0.414	2	2.43	101		-	-		80-120	-		20
Antimony, Total	0.0007	0.5	0.5081	101		-	-		80-120	-		20
Arsenic, Total	0.0026	0.12	0.1317	108		-	-		80-120	-		20
Barium, Total	0.0593	2	2.019	98		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.0515	103		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0584	114		-	-		80-120	-		20
Calcium, Total	152.	10	165	**130**	Q	-	-		80-120	-		20
Chromium, Total	0.0015	0.2	0.1983	98		-	-		80-120	-		20
Cobalt, Total	0.0005J	0.5	0.5035	101		-	-		80-120	-		20
Copper, Total	0.001	0.25	0.2488	99		-	-		80-120	-		20
Iron, Total	4.20	1	5.90	**170**	Q	-	-		80-120	-		20
Lead, Total	0.0002J	0.51	0.5325	104		-	-		80-120	-		20
Magnesium, Total	65.2	10	72.3	**71**	Q	-	-		80-120	-		20
Manganese, Total	0.4067	0.5	0.9537	109		-	-		80-120	-		20
Nickel, Total	0.0011	0.5	0.5055	101		-	-		80-120	-		20
Potassium, Total	8.39	10	18.2	98		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.126	105		-	-		80-120	-		20
Silver, Total	0.0006	0.05	0.0477	94		-	-		80-120	-		20
Sodium, Total	30.7	10	40.1	94		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1124	94		-	-		80-120	-		20
Vanadium, Total	ND	0.5	0.5297	106		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556115-4 QC Sample: L1214733-01 Client ID: MW-32										
Zinc, Total	0.0146	0.5	0.5373	104		-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556261-4 QC Sample: L1214733-01 Client ID: MW-32										
Boron, Total	0.136	1	1.19	105		-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556261-4 QC Sample: L1214733-01 Client ID: MW-32										
Hardness	630	66.2	700	106		-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556915-4 QC Sample: L1214897-01 Client ID: MS Sample										
Mercury, Total	ND	0.001	0.0014	**137**	Q	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556115-3 QC Sample: L1214733-01 Client ID: MW-32						
Antimony, Total	0.0007	0.0004J	mg/l	NC		20
Arsenic, Total	0.0026	0.0025	mg/l	3		20
Barium, Total	0.0593	0.0596	mg/l	0		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.0015	0.0016	mg/l	7		20
Cobalt, Total	0.0005J	0.0006	mg/l	NC		20
Copper, Total	0.001	0.0012	mg/l	**21**	Q	20
Iron, Total	4.20	4.71	mg/l	11		20
Lead, Total	0.0002J	0.0003J	mg/l	NC		20
Manganese, Total	0.4067	0.4230	mg/l	4		20
Nickel, Total	0.0011	0.0013	mg/l	17		20
Potassium, Total	8.39	8.54	mg/l	2		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	0.0006	0.0005	mg/l	14		20
Sodium, Total	30.7	30.3	mg/l	1		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	ND	ND	mg/l	NC		20
Zinc, Total	0.0146	0.0158	mg/l	8		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556115-3 QC Sample: L1214733-01 Client ID: MW-32						
Aluminum, Total	0.414	0.596	mg/l	**36**	Q	20
Calcium, Total	152.	153	mg/l	1		20
Magnesium, Total	65.2	64.5	mg/l	1		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556261-3 QC Sample: L1214733-01 Client ID: MW-32						
Boron, Total	0.136	0.139	mg/l	2		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556261-3 QC Sample: L1214733-01 Client ID: MW-32						
Hardness	630	640	mg/l	2		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556915-3 QC Sample: L1214897-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

SAMPLE RESULTS

Lab ID: L1214733-01
Client ID: MW-32
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/16/12 08:55
Date Received: 08/16/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	86		A.P.C.U.	10	10.	2	-	08/17/12 00:30	30,2120B	DC
Alkalinity, Total	370		mg CaCO3/L	2.0	NA	1	-	08/22/12 11:26	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/16/12 22:00	30,2520B	DC
Solids, Total Dissolved	740		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:24	1,9010B/9012A	JO
Nitrogen, Ammonia	0.447		mg/l	0.075	0.017	1	08/20/12 10:18	08/21/12 20:55	44,350.1	AT
Nitrogen, Nitrate	0.02	J	mg/l	0.10	0.02	1	-	08/16/12 23:14	44,353.2	DB
Nitrogen, Total Kjeldahl	0.94		mg/l	0.30	0.06	1	08/17/12 22:00	08/21/12 20:28	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	20		mg/l	20	7.0	1	08/17/12 17:05	08/17/12 21:09	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/17/12 22:30	08/22/12 18:00	30,5210B	SL
Total Organic Carbon	1.9		mg/l	1.0	0.05	2	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.06		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 14:53	4,420.1	MP
Chromium, Hexavalent	0.001	J	mg/l	0.010	0.001	1	08/17/12 00:10	08/17/12 00:22	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.05	0.01	1	-	08/16/12 23:30	44,300.0	AU
Chloride	200		mg/l	25	4.4	50	-	08/17/12 00:18	44,300.0	AU
Sulfate	140		mg/l	50	8.1	50	-	08/17/12 00:18	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

SAMPLE RESULTS

Lab ID: L1214733-02
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/16/12 09:10
Date Received: 08/16/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	23		A.P.C.U.	5.0	5.0	1	-	08/17/12 00:30	30,2120B	DC
Alkalinity, Total	350		mg CaCO3/L	2.0	NA	1	-	08/22/12 11:26	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	08/16/12 22:00	30,2520B	DC
Solids, Total Dissolved	750		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:25	1,9010B/9012A	JO
Nitrogen, Ammonia	0.220		mg/l	0.075	0.017	1	08/20/12 10:18	08/21/12 20:56	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	08/16/12 23:15	44,353.2	DB
Nitrogen, Total Kjeldahl	1.6		mg/l	0.30	0.06	1	08/17/12 22:00	08/21/12 20:29	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	40		mg/l	20	7.0	1	08/17/12 17:05	08/17/12 21:09	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/17/12 22:30	08/22/12 18:00	30,5210B	SL
Total Organic Carbon	1.6		mg/l	1.0	0.05	2	-	08/22/12 10:06	30,5310C	SD
Phenolics, Total	0.07		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 14:54	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 00:10	08/17/12 00:22	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.13		mg/l	0.05	0.01	1	-	08/16/12 23:42	44,300.0	AU
Chloride	240		mg/l	25	4.4	50	-	08/17/12 00:30	44,300.0	AU
Sulfate	120		mg/l	50	8.1	50	-	08/17/12 00:30	44,300.0	AU

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG555347-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	08/16/12 22:55	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG555370-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/17/12 00:10	08/17/12 00:22	1,7196A	DE
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG555544-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	08/17/12 17:05	08/17/12 21:08	44,410.4	TL
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG555550-1										
Bromide	ND		mg/l	0.05	0.01	1	-	08/16/12 17:54	44,300.0	AU
Chloride	ND		mg/l	0.50	0.09	1	-	08/16/12 17:54	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.16	1	-	08/16/12 17:54	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG555567-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/17/12 22:30	08/22/12 18:00	30,5210B	SL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG555568-1										
Nitrogen, Total Kjeldahl	0.08	J	mg/l	0.30	0.02	1	08/17/12 22:00	08/21/12 20:25	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG555751-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.017	1	08/20/12 10:18	08/21/12 20:52	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG555857-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	08/20/12 14:25	30,2540C	SD
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG556027-1										
Cyanide, Total	ND		mg/l	0.005	0.002	1	08/21/12 12:00	08/21/12 18:21	1,9010B/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG556425-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	08/22/12 11:26	30,2320B	JV
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG556460-1										
Total Organic Carbon	ND		mg/l	0.50	0.03	1	-	08/22/12 10:06	30,5310C	SD
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG557077-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	08/25/12 12:30	08/25/12 14:51	4,420.1	MP

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555347-2								
Nitrogen, Nitrate	104		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555361-1								
SALINITY	101		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555370-2								
Chromium, Hexavalent	105		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555544-2								
Chemical Oxygen Demand	101		-		95-105	-		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG555550-2								
Bromide	98		-		90-110	-		
Chloride	98		-		90-110	-		
Sulfate	108		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555567-2								
BOD, 5 day	101		-		85-115	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555568-2					
Nitrogen, Total Kjeldahl	100	-	85-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555751-2					
Nitrogen, Ammonia	94	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG555857-2					
Solids, Total Dissolved	93	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG556027-2 WG556027-3					
Cyanide, Total	104	104	80-120	0	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG556425-2					
Alkalinity, Total	99	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG556460-2					
Total Organic Carbon	91	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG557077-2					
Phenolics, Total	108	-	82-111	-	12

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555347-4 QC Sample: L1214680-01 Client ID: MS Sample												
Nitrogen, Nitrate	14.	4	18	100		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555370-4 QC Sample: L1214733-02 Client ID: MW-33												
Chromium, Hexavalent	ND	0.1	0.097	97		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555544-3 QC Sample: L1214735-05 Client ID: MS Sample												
Chemical Oxygen Demand	11.J	238	260	109		-	-		80-120	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555550-3 QC Sample: L1214631-01 Client ID: MS Sample												
Bromide	ND	0.4	0.34	85		-	-		77-119	-		20
Chloride	2.0	4	6.3	108		-	-		40-151	-		18
Sulfate	66.	8	70	**50**	Q	-	-		60-140	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555567-3 QC Sample: L1214735-05 Client ID: MS Sample												
BOD, 5 day	ND	100	100	104		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555568-4 QC Sample: L1214735-05 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.31	8	8.1	97		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555751-4 QC Sample: L1214735-05 Client ID: MS Sample												
Nitrogen, Ammonia	0.023J	4	3.80	95		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556027-4 WG556027-5 QC Sample: L1214815-04 Client ID: MS Sample												
Cyanide, Total	0.005	0.2	0.226	113		0.224	112		80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556425-3 QC Sample: L1214733-02 Client ID: MW-33									
Alkalinity, Total	350	100	440	89	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556460-3 QC Sample: L1214897-01 Client ID: MS Sample									
Total Organic Carbon	23.	32	56	103	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG557077-4 QC Sample: L1214815-01 Client ID: MS Sample									
Phenolics, Total	0.06	0.8	0.94	110	-	-	77-124	-	12

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555347-3 QC Sample: L1214680-01 Client ID: DUP Sample						
Nitrogen, Nitrate	14.	14	mg/l	0		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555361-2 QC Sample: L1214733-01 Client ID: MW-32						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555370-3 QC Sample: L1214733-02 Client ID: MW-33						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555380-1 QC Sample: L1214735-05 Client ID: DUP Sample						
Color, Apparent	12.	12	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555544-4 QC Sample: L1214735-05 Client ID: DUP Sample						
Chemical Oxygen Demand	11.J	13J	mg/l	NC		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555550-4 QC Sample: L1214631-01 Client ID: DUP Sample						
Bromide	ND	ND	mg/l	NC		20
Chloride	2.0	2.4	mg/l	18		18
Sulfate	66.	64	mg/l	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555567-4 QC Sample: L1214735-05 Client ID: DUP Sample						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555568-3 QC Sample: L1214735-05 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.31	0.17J	mg/l	NC		24

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555751-3 QC Sample: L1214735-05 Client ID: DUP Sample						
Nitrogen, Ammonia	0.023J	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG555857-3 QC Sample: L1214482-06 Client ID: DUP Sample						
Solids, Total Dissolved	24000	24000	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556425-4 QC Sample: L1214733-02 Client ID: MW-33						
Alkalinity, Total	350	350	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG556460-4 QC Sample: L1214897-01 Client ID: DUP Sample						
Total Organic Carbon	23.	24	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG557077-3 QC Sample: L1214733-02 Client ID: MW-33						
Phenolics, Total	0.07	0.09	mg/l	**25**	Q	12

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214733-01A	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1214733-01B	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1214733-01C	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1214733-01D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-5310(28)
L1214733-01E	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-5310(28)
L1214733-01F	Amber 1000ml H2SO4 preserved	A	<2	3.7	Y	Absent	TPHENOL-420(28)
L1214733-01G	Plastic 1000ml unpreserved	A	7	3.7	Y	Absent	BOD-5210(2)
L1214733-01H	Plastic 1000ml unpreserved	A	7	3.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1214733-01I	Amber 250ml unpreserved	A	7	3.7	Y	Absent	SALINITY(1)
L1214733-01J	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214733-01K	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1214733-01L	Plastic 250ml H2SO4 preserved	A	<2	3.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214733-01M	Plastic 250ml H2SO4 preserved	A	<2	3.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214733-01N	Plastic 250ml NaOH preserved	A	>12	3.7	Y	Absent	TCN-9010(14)
L1214733-01O	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	ALK-T-2320(14)
L1214733-02A	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1214733-02B	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1214733-02C	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1214733
Report Date: 08/27/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1214733-02D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-5310(28)
L1214733-02E	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-5310(28)
L1214733-02F	Amber 1000ml H2SO4 preserved	A	<2	3.7	Y	Absent	TPHENOL-420(28)
L1214733-02G	Plastic 1000ml unpreserved	A	7	3.7	Y	Absent	BOD-5210(2)
L1214733-02H	Plastic 1000ml unpreserved	A	7	3.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1214733-02I	Amber 250ml unpreserved	A	7	3.7	Y	Absent	SALINITY(1)
L1214733-02J	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1214733-02K	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1214733-02L	Plastic 250ml H2SO4 preserved	A	<2	3.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214733-02M	Plastic 250ml H2SO4 preserved	A	<2	3.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1214733-02N	Plastic 250ml NaOH preserved	A	>12	3.7	Y	Absent	TCN-9010(14)
L1214733-02O	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	ALK-T-2320(14)
L1214733-03A	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)
L1214733-03B	Vial HCl preserved	A	N/A	3.7	Y	Absent	NYTCL-8260(14)

Container Comments

L1214733-01O

L1214733-02O

*Values in parentheses indicate holding time in days

Project Name: US SALT **Lab Number:** L1214733

Project Number: 08.8696 **Report Date:** 08/27/12

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1214733
Project Number:	08.8696	**Report Date:**	08/27/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1214733
Project Number: 08.8696 **Report Date:** 08/27/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 16, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7

for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8082A, 8081A, 8081B, 8151A, 8330, 8270C-SIM, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7471A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 245.2, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 3501., 350.2, 353.2, 420.1, 6010B, 6010C, 6020, 6020A, 7196A, 7470A, 9010B, 9030B, 9040B, Lachat 10-107-06-2-D, NJ-EPH, 2120B, 2310B, 2320B, 2340B, 2510C, 2540B, 2540C, 3500Cr-D, 436C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330, 8015B,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010B, 6010C, 6020A, 7196A, 7471A, 7471B, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 2..08, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5035, 3540C, 3546, 3550, 3580, 3630C, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 8.16.12

ALPHA Job #: L1214733

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Serial_No:08271215:32

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: K.moline@ctmale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt
Project Location: Reading, NY
Project #: 08.3696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 8.30.12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

NYS DEC Part 360 Baseline Parameters plus salinity.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Cl, Br, SO4, TDS, NO3	BOD	Hexachrome, Color	Alkalinity	Total Recoverable Phenolics	TOC	Salinity	Total Cyanide	COD, Nitr, TKN	VOC (Baseline List)	Sample Specific Comments	TOTAL # BOTTLES
14733 1	MW-32	8/16/12	0855	GW	AB	X	X	X	X	X	X	X	X	X	X	X		15
2	MW-33	8/16/12	0900	GW	JD	X	X	X	X	X	X	X	X	X	X	X		15
3	transport blank	—	—	—	—											X		2
Container Type						P	P	D	P	P	A	V	A	P	P	V		
Preservative						C	A	A	A	A	D	D	A	E	D	B		

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
Angelika Beckman	8/16/12 14:10	Jon D. Rucker	8-16-12 1410
Jon D. Rucker	8-16-12 1600	Kyle Cunningham	8-16-12 1600
K. Cunningham	8/16/12 2117	Kay Moon	8/16/12 2117

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1211298
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08.8696
Report Date:	06/28/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1211298-01	MW-22	READING, NY	06/23/12 16:20
L1211298-02	MW-23	READING, NY	06/23/12 16:40
L1211298-03	MW-26	READING, NY	06/24/12 07:40
L1211298-04	MW-27	READING, NY	06/24/12 08:00
L1211298-05	MW-29	READING, NY	06/24/12 08:40
L1211298-06	MW-28	READING, NY	06/24/12 09:10
L1211298-07	MW-25	READING, NY	06/24/12 09:50
L1211298-08	MW-24	READING, NY	06/24/12 10:10

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT	**Lab Number:**	L1211298
Project Number:	08.8696	**Report Date:**	06/28/12

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 06/28/12

METALS

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-01
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/23/12 16:20
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.009	J	mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Antimony, Dissolved	0.0012		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Arsenic, Dissolved	0.0009		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Barium, Dissolved	0.0840		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Boron, Dissolved	0.123		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 19:55	NA	1,6010B	AI
Cadmium, Dissolved	0.0003	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Chromium, Dissolved	0.0004	J	mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Copper, Dissolved	0.0002	J	mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Iron, Dissolved	0.111		mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Manganese, Dissolved	0.3595		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 11:44	EPA 7470A	1,7470A	KL
Nickel, Dissolved	0.0003	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Potassium, Dissolved	21.2		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK
Zinc, Dissolved	0.0104		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:04	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-01 D
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/23/12 16:20
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	168		mg/l	1.00	0.320	10	06/25/12 20:24	06/27/12 17:39	NA	1,6020	AK
Magnesium, Dissolved	76.6		mg/l	1.00	0.230	10	06/25/12 20:24	06/27/12 17:39	NA	1,6020	AK
Sodium, Dissolved	79.3		mg/l	1.00	0.150	10	06/25/12 20:24	06/27/12 17:39	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-02
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/23/12 16:40
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.007	J	mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Antimony, Dissolved	0.0008		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Arsenic, Dissolved	0.0007		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Barium, Dissolved	0.0465		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Boron, Dissolved	0.075		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 19:58	NA	1,6010B	AI
Cadmium, Dissolved	0.0003	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Cobalt, Dissolved	0.0001	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Copper, Dissolved	0.0003	J	mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Iron, Dissolved	0.033	J	mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 11:50	EPA 7470A	1,7470A	KL
Nickel, Dissolved	0.0004	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Potassium, Dissolved	18.9		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK
Zinc, Dissolved	0.0159		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:07	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-02 D
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/23/12 16:40
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	161		mg/l	1.00	0.320	10	06/25/12 20:24	06/27/12 17:41	NA	1,6020	AK
Magnesium, Dissolved	57.0		mg/l	1.00	0.230	10	06/25/12 20:24	06/27/12 17:41	NA	1,6020	AK
Manganese, Dissolved	0.9482		mg/l	0.0050	0.0010	10	06/25/12 20:24	06/27/12 17:41	NA	1,6020	AK
Sodium, Dissolved	81.3		mg/l	1.00	0.150	10	06/25/12 20:24	06/27/12 17:41	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-03
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/24/12 07:40
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.007	J	mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Antimony, Dissolved	0.0006		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Arsenic, Dissolved	0.0022		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Barium, Dissolved	0.0396		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Boron, Dissolved	0.102		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 20:07	NA	1,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Copper, Dissolved	0.0001	J	mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Iron, Dissolved	0.080		mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Magnesium, Dissolved	22.1		mg/l	0.100	0.023	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Manganese, Dissolved	0.1581		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 11:52	EPA 7470A	1,7470A	KL
Nickel, Dissolved	0.0001	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Potassium, Dissolved	6.79		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Sodium, Dissolved	15.6		mg/l	0.100	0.015	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK
Zinc, Dissolved	0.0083	J	mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:09	NA	1,6020	AK

Project Name:	US SALT	**Lab Number:**	L1211298
Project Number:	08.8696	**Report Date:**	06/28/12

SAMPLE RESULTS

Lab ID:	L1211298-03 D	Date Collected:	06/24/12 07:40
Client ID:	MW-26	Date Received:	06/25/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	72.2		mg/l	1.00	0.320	10	06/25/12 20:24	06/27/12 17:44	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-04
Client ID: MW-27
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/24/12 08:00
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.008	J	mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Antimony, Dissolved	0.0008		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Arsenic, Dissolved	0.0046		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Barium, Dissolved	0.0410		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Boron, Dissolved	0.019	J	mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 20:10	NA	1,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Cobalt, Dissolved	0.0002	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Copper, Dissolved	0.0001	J	mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Iron, Dissolved	0.050		mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Magnesium, Dissolved	27.7		mg/l	0.100	0.023	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Manganese, Dissolved	0.2164		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 11:57	EPA 7470A	1,7470A	KL
Nickel, Dissolved	0.0004	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Potassium, Dissolved	3.68		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Sodium, Dissolved	7.17		mg/l	0.100	0.015	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK
Zinc, Dissolved	0.0124		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:12	NA	1,6020	AK

Project Name:	US SALT	**Lab Number:**	L1211298
Project Number:	08.8696	**Report Date:**	06/28/12

SAMPLE RESULTS

Lab ID:	L1211298-04 D	Date Collected:	06/24/12 08:00
Client ID:	MW-27	Date Received:	06/25/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	92.7		mg/l	1.00	0.320	10	06/25/12 20:24	06/27/12 17:54	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-05
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/24/12 08:40
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.035		mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Antimony, Dissolved	0.0004	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Arsenic, Dissolved	0.0044		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Barium, Dissolved	0.1013		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Boron, Dissolved	0.084		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 20:13	NA	1,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Calcium, Dissolved	48.3		mg/l	0.100	0.032	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Copper, Dissolved	0.0001	J	mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Iron, Dissolved	0.044	J	mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Magnesium, Dissolved	11.6		mg/l	0.100	0.023	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Manganese, Dissolved	0.1056		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 11:59	EPA 7470A	1,7470A	KL
Nickel, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Potassium, Dissolved	2.85		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Sodium, Dissolved	9.98		mg/l	0.100	0.015	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK
Zinc, Dissolved	0.0102		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:14	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-06
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/24/12 09:10
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.035		mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Antimony, Dissolved	0.0005		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Arsenic, Dissolved	0.0057		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Barium, Dissolved	0.0636		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Boron, Dissolved	0.088		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 20:16	NA	1,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Copper, Dissolved	ND		mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Iron, Dissolved	0.031	J	mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Magnesium, Dissolved	13.2		mg/l	0.100	0.023	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Manganese, Dissolved	0.0893		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 12:01	EPA 7470A	1,7470A	KL
Nickel, Dissolved	0.0002	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Potassium, Dissolved	2.95		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Sodium, Dissolved	11.2		mg/l	0.100	0.015	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK
Zinc, Dissolved	0.0127		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:17	NA	1,6020	AK

Project Name:	US SALT	**Lab Number:**	L1211298
Project Number:	08.8696	**Report Date:**	06/28/12

SAMPLE RESULTS

Lab ID:	L1211298-06 D	Date Collected:	06/24/12 09:10
Client ID:	MW-28	Date Received:	06/25/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	50.2		mg/l	1.00	0.320	10	06/25/12 20:24	06/27/12 18:00	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-07
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/24/12 09:50
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.010		mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Antimony, Dissolved	0.0008		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Arsenic, Dissolved	0.0036		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Barium, Dissolved	0.0563		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Boron, Dissolved	0.236		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 20:19	NA	1,6010B	AI
Cadmium, Dissolved	0.0001	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Cobalt, Dissolved	0.0003	J	mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Copper, Dissolved	0.0002	J	mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Iron, Dissolved	0.032	J	mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Magnesium, Dissolved	46.3		mg/l	0.100	0.023	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Manganese, Dissolved	0.2576		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 12:03	EPA 7470A	1,7470A	KL
Nickel, Dissolved	0.00090		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Potassium, Dissolved	6.87		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Sodium, Dissolved	31.6		mg/l	0.100	0.015	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Vanadium, Dissolved	0.0002	J	mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK
Zinc, Dissolved	0.0126		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:19	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-07 D
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/24/12 09:50
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Calcium, Dissolved	119		mg/l	1.00	0.320	10	06/25/12 20:24	06/27/12 18:02	NA	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

SAMPLE RESULTS

Lab ID: L1211298-08
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 06/24/12 10:10
Date Received: 06/25/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.017		mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Antimony, Dissolved	0.0006		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Arsenic, Dissolved	0.0004	J	mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Barium, Dissolved	0.0887		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Boron, Dissolved	0.112		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 20:22	NA	1,6010B	AI
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Calcium, Dissolved	40.5		mg/l	0.100	0.032	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Copper, Dissolved	ND		mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Iron, Dissolved	0.039	J	mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Magnesium, Dissolved	29.9		mg/l	0.100	0.023	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Manganese, Dissolved	0.0821		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 12:04	EPA 7470A	1,7470A	KL
Nickel, Dissolved	0.0006		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Potassium, Dissolved	44.1		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Sodium, Dissolved	30.9		mg/l	0.100	0.015	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK
Zinc, Dissolved	0.0112		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 19:22	NA	1,6020	AK

Project Name: US SALT **Lab Number:** L1211298

Project Number: 08.8696 **Report Date:** 06/28/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-08 Batch: WG544713-1										
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	06/26/12 19:08	06/27/12 11:41	1,7470A	KL

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-08 Batch: WG544897-1										
Aluminum, Dissolved	ND		mg/l	0.010	0.002	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Antimony, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Arsenic, Dissolved	ND		mg/l	0.0005	0.0002	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Barium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Calcium, Dissolved	ND		mg/l	0.100	0.032	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Chromium, Dissolved	0.0005	J	mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Copper, Dissolved	ND		mg/l	0.0010	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Iron, Dissolved	ND		mg/l	0.050	0.013	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Magnesium, Dissolved	ND		mg/l	0.100	0.023	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Manganese, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Nickel, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Potassium, Dissolved	ND		mg/l	0.100	0.027	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Sodium, Dissolved	0.033	J	mg/l	0.100	0.015	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK
Zinc, Dissolved	ND		mg/l	0.0100	0.0012	1	06/25/12 20:24	06/27/12 16:47	1,6020	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1211298
Report Date: 06/28/12

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 01-08 Batch: WG544930-1										
Boron, Dissolved	ND		mg/l	0.030	0.008	1	06/25/12 20:24	06/27/12 19:35	1,6010B	AI

Prep Information

Digestion Method: NA

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG544713-2								
Mercury, Dissolved	99		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG544897-2					
Aluminum, Dissolved	90	-	80-120	-	
Antimony, Dissolved	84	-	80-120	-	
Arsenic, Dissolved	100	-	80-120	-	
Barium, Dissolved	93	-	80-120	-	
Beryllium, Dissolved	97	-	80-120	-	
Cadmium, Dissolved	104	-	80-120	-	
Calcium, Dissolved	93	-	80-120	-	
Chromium, Dissolved	96	-	80-120	-	
Cobalt, Dissolved	96	-	80-120	-	
Copper, Dissolved	96	-	80-120	-	
Iron, Dissolved	98	-	80-120	-	
Lead, Dissolved	98	-	80-120	-	
Magnesium, Dissolved	96	-	80-120	-	
Manganese, Dissolved	93	-	80-120	-	
Nickel, Dissolved	98	-	80-120	-	
Potassium, Dissolved	92	-	80-120	-	
Selenium, Dissolved	104	-	80-120	-	
Silver, Dissolved	92	-	80-120	-	
Sodium, Dissolved	97	-	80-120	-	
Thallium, Dissolved	90	-	80-120	-	
Vanadium, Dissolved	96	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG544897-2					
Zinc, Dissolved	106	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 Batch: WG544930-2					
Boron, Dissolved	101	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG544713-4 QC Sample: L1211298-01 Client ID: MW-22												
Mercury, Dissolved	ND	0.001	0.0013	130		-	-		70-130	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG544897-3 WG544897-4 QC Sample: L1211139-01 Client ID: MS Sample											
Aluminum, Dissolved	1.30	2	2.94	82		3.07	88		80-120	4	20
Antimony, Dissolved	0.0008	0.5	0.3070	**61**	Q	0.3544	**71**	Q	80-120	14	20
Arsenic, Dissolved	0.0041	0.12	0.1239	100		0.1292	104		80-120	4	20
Barium, Dissolved	0.2874	2	2.169	94		2.233	97		80-120	3	20
Beryllium, Dissolved	ND	0.05	0.0508	102		0.0510	102		80-120	0	20
Cadmium, Dissolved	0.0002J	0.051	0.0521	102		0.0521	102		80-120	0	20
Calcium, Dissolved	145.	10	156	110		155	100		80-120	1	20
Chromium, Dissolved	0.0037	0.2	0.1926	94		0.2017	99		80-120	5	20
Cobalt, Dissolved	0.0014	0.5	0.4758	95		0.4920	98		80-120	3	20
Copper, Dissolved	0.0083	0.25	0.2436	94		0.2540	98		80-120	4	20
Iron, Dissolved	6.49	1	7.19	**70**	Q	7.22	**73**	Q	80-120	0	20
Lead, Dissolved	0.0071	0.51	0.5147	100		0.5241	101		80-120	2	20
Magnesium, Dissolved	44.7	10	55.0	103		56.1	114		80-120	2	20
Manganese, Dissolved	0.3284	0.5	0.7866	92		0.8026	95		80-120	2	20
Nickel, Dissolved	0.0031	0.5	0.4802	95		0.4991	99		80-120	4	20
Potassium, Dissolved	74.4	10	84.0	96		85.0	106		80-120	1	20
Selenium, Dissolved	ND	0.12	0.119	99		0.124	103		80-120	4	20
Silver, Dissolved	ND	0.05	0.0462	92		0.0474	95		80-120	3	20
Sodium, Dissolved	464.	10	485	**210**	Q	483	**190**	Q	80-120	0	20
Thallium, Dissolved	0.0000J	0.12	0.1094	91		0.1116	93		80-120	2	20
Vanadium, Dissolved	0.0034J	0.5	0.4941	99		0.5112	102		80-120	3	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG544897-3 WG544897-4 QC Sample: L1211139-01 Client ID: MS Sample									
Zinc, Dissolved	0.0552	0.5	0.5694	103	0.5908	107	80-120	4	20
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG544930-3 WG544930-4 QC Sample: L1209822-118 Client ID: MS Sample									
Boron, Dissolved	0.095	1	1.03	93	1.11	101	75-125	7	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG544713-3 QC Sample: L1211298-01 Client ID: MW-22						
Mercury, Dissolved	ND	ND	mg/l	NC		20

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1211298-01A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-
L1211298-01X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1211298-02A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-
L1211298-02X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1211298-03A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-
L1211298-03X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1211298-04A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1211298-04X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1211298-05A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-
L1211298-05X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1211298-06A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-
L1211298-06X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1211298-07A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-
L1211298-07X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1211298-08A	Plastic 500ml unpreserved	A	7	2.4	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1211298
Report Date: 06/28/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1211298-08X	Plastic 500ml HNO3 preserved spl	A	<2	2.4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1211298
Project Number:	08.8696	**Report Date:**	06/28/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1211298
Project Number:	08.8696	**Report Date:**	06/28/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1211298
Project Number: 08.8696 **Report Date:** 06/28/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised May 11, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D, Fecal Coliform-EC Medium 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterolert, E.Coli 9223.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics, Acid Extractables (Phenols), Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8081B, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C,6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8270C, 8270D, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 3005A, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B, 8015B, 8015C.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 6·25·12

ALPHA Job #: L1211298

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr
Latham NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: K.molineec@tmale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US SALT
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ ~~Standard~~ ☒ RUSH (only confirmed if pre-approved!) 3 Day

Date Due: 6/28/12 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Dissolved Metals (Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn)

SAMPLE HANDLING
Filtration yes
☐ Done
☐ Not needed
☒ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Dissolved Metals	Sample Specific Comments	TOTAL # BOTTLES
11298·1	MW-22	6/23/12	1620	GW	JD	X	Lab to Filter	1
2	MW-23	6/23/12	1640		JD	X	Lab to Filter	1
3	MW-26	6/24/12	0740		JD	X	Lab to Filter	1
4	MW-27		0800		JD	X	Lab to Filter	1
5	MW-~~25~~ 29		0840		JD	X	Lab to Filter	1
6	MW-~~26~~ 28		0910		JD	X	Lab to Filter	1
7	MW-~~27~~ 25		0950		JD	X	Lab to Filter	1
8	MW-~~28~~ 24	6/24/12	1010	GW	JD	X	Lab to Filter	1

Container Type	P
Preservative	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/24/12 1445	[signature]	6/24/12 1445
[signature]	6/25/12	[signature]	6-25-12 1600
[signature]	6-25-12 1925	[signature]	6-25-12 1925

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

Serial_No:06281215:24

ANALYTICAL REPORT

Lab Number:	L1208052
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08-8696
Report Date:	05/15/12

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1208052-01	MW-22	READING, NY	05/04/12 07:45
L1208052-02	MW-23	READING, NY	05/04/12 08:45
L1208052-03	MW-25	READING, NY	05/04/12 09:30
L1208052-04	MW-24	READING, NY	05/04/12 10:15
L1208052-05	TRANSPORT BLANK	READING, NY	05/04/12 00:00

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1208052
Project Number: 08-8696 **Report Date:** 05/15/12

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

The WG534029-4 MS recovery for Sodium (0%), performed on L1208052-01, does not apply because the sample concentration is greater than four times the spike amount added.

BOD, 5 day

WG533986: A laboratory Matrix Spike was prepared with the sample batch, however, the spike result could not be reported due to lab error. Re-analysis is invalid due to expired sample hold time.

Bromide

The WG534663-4 Laboratory Duplicate RPD, performed on L1208052-04, is outside the acceptance criteria (76%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the Laboratory Duplicate.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 05/15/12

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-01
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260B
Analytical Date: 05/11/12 17:25
Analyst: PD

Date Collected: 05/04/12 07:45
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-01 Date Collected: 05/04/12 07:45

Client ID: MW-22 Date Received: 05/04/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.5	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID:	L1208052-02	Date Collected:	05/04/12 08:45
Client ID:	MW-23	Date Received:	05/04/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/11/12 18:00		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

SAMPLE RESULTS

Lab ID:	L1208052-02	Date Collected:	05/04/12 08:45
Client ID:	MW-23	Date Received:	05/04/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID:	L1208052-03	Date Collected:	05/04/12 09:30
Client ID:	MW-25	Date Received:	05/04/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/11/12 18:35		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

SAMPLE RESULTS

Lab ID:	L1208052-03	Date Collected:	05/04/12 09:30
Client ID:	MW-25	Date Received:	05/04/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID:	L1208052-04	Date Collected:	05/04/12 10:15
Client ID:	MW-24	Date Received:	05/04/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/11/12 19:10		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

SAMPLE RESULTS

Lab ID:	L1208052-04	Date Collected:	05/04/12 10:15
Client ID:	MW-24	Date Received:	05/04/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	51		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.1	J	ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

SAMPLE RESULTS

Lab ID:	L1208052-05	Date Collected:	05/04/12 00:00
Client ID:	TRANSPORT BLANK	Date Received:	05/04/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/11/12 19:46		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-05 Date Collected: 05/04/12 00:00

Client ID: TRANSPORT BLANK Date Received: 05/04/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/11/12 09:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG535608-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/11/12 09:46
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG535608-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535608-1 WG535608-2								
Methylene chloride	107		108		70-130	1		20
1,1-Dichloroethane	89		93		70-130	4		20
Chloroform	98		102		70-130	4		20
2-Chloroethylvinyl ether	91		93		70-130	2		20
Carbon tetrachloride	112		117		63-132	4		20
1,2-Dichloropropane	91		93		70-130	2		20
Dibromochloromethane	109		104		63-130	5		20
1,1,2-Trichloroethane	102		96		70-130	6		20
Tetrachloroethene	102		103		70-130	1		20
Chlorobenzene	97		98		75-130	1		20
Trichlorofluoromethane	116		124		62-150	7		20
1,2-Dichloroethane	103		102		70-130	1		20
1,1,1-Trichloroethane	104		105		67-130	1		20
Bromodichloromethane	103		104		67-130	1		20
trans-1,3-Dichloropropene	105		103		70-130	2		20
cis-1,3-Dichloropropene	101		102		70-130	1		20
1,1-Dichloropropene	100		104		70-130	4		20
Bromoform	118		115		54-136	3		20
1,1,2,2-Tetrachloroethane	106		102		67-130	4		20
Benzene	91		95		70-130	4		20
Toluene	91		92		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535608-1 WG535608-2								
Ethylbenzene	96		97		70-130	1		20
Chloromethane	75		70		64-130	7		20
Bromomethane	75		53		39-139	**34**	Q	20
Vinyl chloride	80		77		55-140	4		20
Chloroethane	71		73		55-138	3		20
1,1-Dichloroethene	96		97		61-145	1		20
trans-1,2-Dichloroethene	93		99		70-130	6		20
Trichloroethene	93		95		70-130	2		20
1,2-Dichlorobenzene	104		102		70-130	2		20
1,3-Dichlorobenzene	102		104		70-130	2		20
1,4-Dichlorobenzene	102		102		70-130	0		20
Methyl tert butyl ether	96		91		63-130	5		20
p/m-Xylene	98		99		70-130	1		20
o-Xylene	101		100		70-130	1		20
cis-1,2-Dichloroethene	98		102		70-130	4		20
Dibromomethane	109		102		70-130	7		20
1,2,3-Trichloropropane	103		96		64-130	7		20
Acrylonitrile	88		83		70-130	6		20
Isopropyl Ether	85		86		70-130	1		20
tert-Butyl Alcohol	83		**69**	Q	70-130	18		20
Styrene	103		102		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535608-1 WG535608-2								
Dichlorodifluoromethane	81		84		36-147	4		20
Acetone	96		88		58-148	9		20
Carbon disulfide	86		95		51-130	10		20
2-Butanone	81		74		63-138	9		20
Vinyl acetate	104		116		70-130	11		20
4-Methyl-2-pentanone	89		81		59-130	9		20
2-Hexanone	83		72		57-130	14		20
Bromochloromethane	119		121		70-130	2		20
2,2-Dichloropropane	110		114		63-133	4		20
1,2-Dibromoethane	105		99		70-130	6		20
1,3-Dichloropropane	100		95		70-130	5		20
1,1,1,2-Tetrachloroethane	116		114		64-130	2		20
Bromobenzene	113		113		70-130	0		20
n-Butylbenzene	89		92		53-136	3		20
sec-Butylbenzene	102		106		70-130	4		20
tert-Butylbenzene	104		108		70-130	4		20
o-Chlorotoluene	104		106		70-130	2		20
p-Chlorotoluene	102		105		70-130	3		20
1,2-Dibromo-3-chloropropane	85		84		41-144	1		20
Hexachlorobutadiene	125		130		63-130	4		20
Isopropylbenzene	109		113		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535608-1 WG535608-2								
p-Isopropyltoluene	100		103		70-130	3		20
Naphthalene	75		**60**	Q	70-130	**22**	Q	20
n-Propylbenzene	102		105		69-130	3		20
1,2,3-Trichlorobenzene	82		70		70-130	16		20
1,2,4-Trichlorobenzene	87		80		70-130	8		20
1,3,5-Trimethylbenzene	104		106		64-130	2		20
1,2,4-Trimethylbenzene	95		95		70-130	0		20
Methyl Acetate	86		78		70-130	10		20
Ethyl Acetate	77		73		70-130	5		20
Cyclohexane	89		93		70-130	4		20
Ethyl-Tert-Butyl-Ether	92		89		70-130	3		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	110		117		70-130	6		20
1,4-Diethylbenzene	96		98		70-130	2		20
4-Ethyltoluene	98		100		70-130	2		20
1,2,4,5-Tetramethylbenzene	93		96		70-130	3		20
Ethyl ether	127		123		59-134	3		20
trans-1,4-Dichloro-2-butene	98		92		70-130	6		20
Methyl cyclohexane	104		112		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT

Project Number: 08-8696

Lab Number: L1208052

Report Date: 05/15/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535608-1 WG535608-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	103		104		70-130

METALS

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-01
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 07:45
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.36		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Antimony, Total	0.0007		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:42	EPA 3005A	1,6020	BM
Arsenic, Total	ND		mg/l	0.005	0.003	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Barium, Total	0.099		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:42	EPA 3005A	1,6020	BM
Boron, Total	0.094		mg/l	0.030	0.008	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Calcium, Total	150		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	0.002	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Iron, Total	2.0		mg/l	0.05	0.02	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Magnesium, Total	68		mg/l	0.10	0.05	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Manganese, Total	0.349		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/05/12 16:40	05/07/12 13:36	EPA 7470A	1,7470A	DM
Nickel, Total	ND		mg/l	0.025	0.003	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Potassium, Total	12		mg/l	2.5	0.80	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Sodium, Total	140		mg/l	2.0	0.80	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0002	0.00003	1	05/05/12 13:00	05/07/12 14:42	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Zinc, Total	0.027	J	mg/l	0.050	0.005	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	660		mg/l	0.66	0.24	1	05/05/12 13:00	05/08/12 09:39	EPA 3005A	1,6010B	AI

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-02
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 08:45
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.14		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Antimony, Total	0.0005		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:45	EPA 3005A	1,6020	BM
Arsenic, Total	ND		mg/l	0.005	0.003	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Barium, Total	0.066		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:45	EPA 3005A	1,6020	BM
Boron, Total	0.032		mg/l	0.030	0.008	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Calcium, Total	260		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	0.002	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Iron, Total	2.0		mg/l	0.05	0.02	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Magnesium, Total	83		mg/l	0.10	0.05	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Manganese, Total	0.450		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/05/12 16:40	05/07/12 13:41	EPA 7470A	1,7470A	DM
Nickel, Total	ND		mg/l	0.025	0.003	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Potassium, Total	7.1		mg/l	2.5	0.80	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Sodium, Total	140		mg/l	2.0	0.80	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0002	0.00003	1	05/05/12 13:00	05/07/12 14:45	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Zinc, Total	0.023	J	mg/l	0.050	0.005	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	990		mg/l	0.66	0.24	1	05/05/12 13:00	05/08/12 10:13	EPA 3005A	1,6010B	AI

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-03
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 09:30
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.17		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Antimony, Total	0.0006		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:52	EPA 3005A	1,6020	BM
Arsenic, Total	ND		mg/l	0.005	0.003	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Barium, Total	0.061		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:52	EPA 3005A	1,6020	BM
Boron, Total	0.262		mg/l	0.030	0.008	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Calcium, Total	110		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	0.002	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Iron, Total	0.50		mg/l	0.05	0.02	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Magnesium, Total	44		mg/l	0.10	0.05	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Manganese, Total	0.275		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/05/12 16:40	05/07/12 13:43	EPA 7470A	1,7470A	DM
Nickel, Total	ND		mg/l	0.025	0.003	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Potassium, Total	9.8		mg/l	2.5	0.80	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Sodium, Total	35		mg/l	2.0	0.80	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Thallium, Total	0.00003	J	mg/l	0.00020	0.00003	1	05/05/12 13:00	05/07/12 14:52	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Zinc, Total	0.017	J	mg/l	0.050	0.005	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	450		mg/l	0.66	0.24	1	05/05/12 13:00	05/08/12 10:16	EPA 3005A	1,6010B	AI

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-04
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 10:15
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.82		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Antimony, Total	0.0011		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:55	EPA 3005A	1,6020	BM
Arsenic, Total	ND		mg/l	0.005	0.003	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Barium, Total	0.082		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:55	EPA 3005A	1,6020	BM
Boron, Total	0.124		mg/l	0.030	0.008	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Calcium, Total	30		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	0.002	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Iron, Total	1.5		mg/l	0.05	0.02	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Magnesium, Total	19		mg/l	0.10	0.05	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Manganese, Total	0.091		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/05/12 16:40	05/07/12 13:45	EPA 7470A	1,7470A	DM
Nickel, Total	ND		mg/l	0.025	0.003	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Potassium, Total	55		mg/l	2.5	0.80	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Sodium, Total	51		mg/l	2.0	0.80	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0002	0.00003	1	05/05/12 13:00	05/07/12 14:55	EPA 3005A	1,6020	BM
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Zinc, Total	0.019	J	mg/l	0.050	0.005	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	150		mg/l	0.66	0.24	1	05/05/12 13:00	05/08/12 10:22	EPA 3005A	1,6010B	AI

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG534025-1										
Antimony, Total	0.0001	J	mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:22	1,6020	BM
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/05/12 13:00	05/07/12 14:22	1,6020	BM
Thallium, Total	ND		mg/l	0.0002	0.00003	1	05/05/12 13:00	05/07/12 14:22	1,6020	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG534029-1										
Aluminum, Total	ND		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Arsenic, Total	ND		mg/l	0.005	0.003	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Barium, Total	ND		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Boron, Total	ND		mg/l	0.030	0.008	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Calcium, Total	ND		mg/l	0.10	0.02	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	0.002	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Iron, Total	ND		mg/l	0.05	0.02	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Magnesium, Total	ND		mg/l	0.10	0.05	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Manganese, Total	ND		mg/l	0.010	0.001	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Nickel, Total	ND		mg/l	0.025	0.003	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Potassium, Total	ND		mg/l	2.5	0.80	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Sodium, Total	ND		mg/l	2.0	0.80	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	0.005	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-04 Batch: WG534029-1										
Hardness	ND		mg/l	0.66	0.24	1	05/05/12 13:00	05/08/12 09:33	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG534053-1										
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/05/12 16:40	05/07/12 13:32	1,7470A	DM

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG534025-2								
Antimony, Total	96		-		80-120	-		
Beryllium, Total	107		-		80-120	-		
Thallium, Total	104		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG534029-2					
Aluminum, Total	95	-	80-120	-	
Arsenic, Total	107	-	80-120	-	
Barium, Total	100	-	80-120	-	
Boron, Total	104	-	80-120	-	
Cadmium, Total	101	-	80-120	-	
Calcium, Total	94	-	80-120	-	
Chromium, Total	95	-	80-120	-	
Cobalt, Total	97	-	80-120	-	
Copper, Total	96	-	80-120	-	
Iron, Total	96	-	80-120	-	
Lead, Total	100	-	80-120	-	
Magnesium, Total	96	-	80-120	-	
Manganese, Total	95	-	80-120	-	
Nickel, Total	96	-	80-120	-	
Potassium, Total	99	-	80-120	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	97	-	80-120	-	
Sodium, Total	99	-	80-120	-	
Vanadium, Total	98	-	80-120	-	
Zinc, Total	98	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-04 Batch: WG534029-2					
Hardness	95	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG534053-2					
Mercury, Total	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534025-4 QC Sample: L1208023-02 Client ID: MS Sample												
Antimony, Total	0.0074	0.5	0.5467	108		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.0539	108		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1227	102		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534029-4 QC Sample: L1208052-01 Client ID: MW-22										
Aluminum, Total	0.36	2	2.3	97		-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.136	113		-	-	75-125	-	20
Barium, Total	0.099	2	2.09	100		-	-	75-125	-	20
Boron, Total	0.094	1	1.16	107		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.051	100		-	-	75-125	-	20
Calcium, Total	150	10	160	100		-	-	75-125	-	20
Chromium, Total	ND	0.2	0.19	95		-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.471	94		-	-	75-125	-	20
Copper, Total	ND	0.25	0.247	99		-	-	75-125	-	20
Iron, Total	2.0	1	3.0	100		-	-	75-125	-	20
Lead, Total	ND	0.51	0.497	97		-	-	75-125	-	20
Magnesium, Total	68.	10	78	100		-	-	75-125	-	20
Manganese, Total	0.349	0.5	0.820	94		-	-	75-125	-	20
Nickel, Total	ND	0.5	0.468	94		-	-	75-125	-	20
Potassium, Total	12.	10	22	100		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.124	103		-	-	75-125	-	20
Silver, Total	ND	0.05	0.051	101		-	-	75-125	-	20
Sodium, Total	140	10	140	**0**	Q	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.500	100		-	-	75-125	-	20
Zinc, Total	0.027J	0.5	0.509	102		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534029-4 QC Sample: L1208052-01 Client ID: MW-22										
Hardness	660	66.2	730	106		-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534053-4 QC Sample: L1208059-10 Client ID: MS Sample										
Mercury, Total	ND	0.001	0.0014	**144**	Q	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534029-3 QC Sample: L1208052-01 Client ID: MW-22						
Aluminum, Total	0.36	0.35	mg/l	3		20
Arsenic, Total	ND	ND	mg/l	NC		20
Barium, Total	0.099	0.100	mg/l	1		20
Boron, Total	0.094	0.093	mg/l	0		20
Cadmium, Total	ND	ND	mg/l	NC		20
Calcium, Total	150	160	mg/l	6		20
Chromium, Total	ND	ND	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	2.0	2.1	mg/l	5		20
Lead, Total	ND	ND	mg/l	NC		20
Magnesium, Total	68.	69	mg/l	1		20
Manganese, Total	0.349	0.358	mg/l	3		20
Nickel, Total	ND	ND	mg/l	NC		20
Potassium, Total	12.	12	mg/l	0		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	140	140	mg/l	0		20
Vanadium, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534029-3 QC Sample: L1208052-01 Client ID: MW-22					
Zinc, Total	0.027J	0.027J	mg/l	NC	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534029-3 QC Sample: L1208052-01 Client ID: MW-22					
Hardness	660	680	mg/l	3	20
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534053-3 QC Sample: L1208059-10 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-01
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 07:45
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	130		A.P.C.U.	50	50.	10	-	05/04/12 23:30	30,2120B	ML
Alkalinity, Total	360		mg CaCO3/L	2.0	NA	1	-	05/10/12 10:17	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	05/04/12 23:30	30,2520B	ML
Solids, Total Dissolved	1200		mg/l	10	4.4	1	-	05/07/12 13:30	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.002	1	05/08/12 17:00	05/09/12 15:03	1,9010B/9012A	JO
Nitrogen, Ammonia	0.666		mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 21:12	44,350.1	AT
Nitrogen, Nitrate	0.09	J	mg/l	0.10	0.02	1	-	05/05/12 12:31	44,353.2	JO
Nitrogen, Total Kjeldahl	1.0		mg/l	0.30	0.06	1	05/11/12 14:00	05/14/12 22:21	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	30		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:38	44,410.4	DW
BOD, 5 day	ND		mg/l	2.0	NA	1	05/05/12 03:20	05/09/12 20:45	30,5210B	DB
Total Organic Carbon	3.8		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.02	J	mg/l	0.03	0.01	1	05/14/12 11:45	05/14/12 13:40	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/05/12 01:15	05/05/12 01:45	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.22		mg/l	0.05	0.01	1	-	05/07/12 22:15	44,300.0	AU
Chloride	560		mg/l	50	8.9	100	-	05/08/12 01:06	44,300.0	AU
Sulfate	50		mg/l	10	1.6	10	-	05/14/12 20:24	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-02
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 08:45
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	140		A.P.C.U.	50	50.	10	-	05/04/12 23:30	30,2120B	ML
Alkalinity, Total	340		mg CaCO3/L	2.0	NA	1	-	05/10/12 10:17	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	05/04/12 23:30	30,2520B	ML
Solids, Total Dissolved	1800		mg/l	10	4.4	1	-	05/07/12 13:30	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	05/08/12 17:00	05/09/12 15:05	1,9010B/9012A	JO
Nitrogen, Ammonia	0.156		mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 21:13	44,350.1	AT
Nitrogen, Nitrate	0.09	J	mg/l	0.10	0.02	1	-	05/05/12 12:32	44,353.2	JO
Nitrogen, Total Kjeldahl	0.45		mg/l	0.30	0.06	1	05/11/12 14:00	05/14/12 22:24	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	42		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:39	44,410.4	DW
BOD, 5 day	ND		mg/l	2.0	NA	1	05/05/12 03:20	05/09/12 20:45	30,5210B	DB
Total Organic Carbon	3.5		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.04		mg/l	0.03	0.01	1	05/14/12 11:45	05/14/12 13:41	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/05/12 01:15	05/05/12 01:45	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.24		mg/l	0.05	0.01	1	-	05/07/12 22:27	44,300.0	AU
Chloride	810		mg/l	50	8.9	100	-	05/08/12 01:18	44,300.0	AU
Sulfate	110		mg/l	10	1.6	10	-	05/14/12 20:36	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-03
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 09:30
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	140		A.P.C.U.	50	50.	10	-	05/04/12 23:30	30,2120B	ML
Alkalinity, Total	380		mg CaCO3/L	2.0	NA	1	-	05/10/12 10:17	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	05/04/12 23:30	30,2520B	ML
Solids, Total Dissolved	650		mg/l	10	4.4	1	-	05/07/12 13:30	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.002	1	05/08/12 17:00	05/09/12 15:19	1,9010B/9012A	JO
Nitrogen, Ammonia	0.544		mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 21:14	44,350.1	AT
Nitrogen, Nitrate	0.07	J	mg/l	0.10	0.02	1	-	05/05/12 12:33	44,353.2	JO
Nitrogen, Total Kjeldahl	0.74		mg/l	0.30	0.06	1	05/11/12 14:00	05/14/12 22:27	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:39	44,410.4	DW
BOD, 5 day	19		mg/l	2.0	NA	1	05/05/12 03:20	05/09/12 20:45	30,5210B	DB
Total Organic Carbon	3.8		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.03		mg/l	0.03	0.01	1	05/14/12 11:45	05/14/12 13:41	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/05/12 01:15	05/05/12 01:45	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.17		mg/l	0.05	0.01	1	-	05/07/12 22:39	44,300.0	AU
Chloride	91		mg/l	12	2.2	25	-	05/08/12 01:54	44,300.0	AU
Sulfate	82		mg/l	10	1.6	10	-	05/14/12 20:48	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

SAMPLE RESULTS

Lab ID: L1208052-04
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/04/12 10:15
Date Received: 05/04/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	120		A.P.C.U.	50	50.	10	-	05/04/12 23:30	30,2120B	ML
Alkalinity, Total	230		mg CaCO3/L	2.0	NA	1	-	05/10/12 10:17	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	05/04/12 23:30	30,2520B	ML
Solids, Total Dissolved	450		mg/l	10	4.4	1	-	05/07/12 13:30	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	05/08/12 17:00	05/09/12 15:08	1,9010B/9012A	JO
Nitrogen, Ammonia	2.24		mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 21:15	44,350.1	AT
Nitrogen, Nitrate	0.03	J	mg/l	0.10	0.02	1	-	05/05/12 12:33	44,353.2	JO
Nitrogen, Total Kjeldahl	2.5		mg/l	0.30	0.06	1	05/11/12 14:00	05/14/12 22:28	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	23		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:39	44,410.4	DW
BOD, 5 day	6.5		mg/l	2.0	NA	1	05/05/12 03:20	05/09/12 20:45	30,5210B	DB
Total Organic Carbon	5.2		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.04		mg/l	0.03	0.01	1	05/14/12 11:45	05/14/12 13:42	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/05/12 01:15	05/05/12 01:45	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.15		mg/l	0.05	0.01	1	-	05/07/12 22:51	44,300.0	AU
Chloride	52		mg/l	5.0	0.89	10	-	05/08/12 02:54	44,300.0	AU
Sulfate	52		mg/l	10	1.6	10	-	05/14/12 21:00	44,300.0	AU

Project Name: US SALT **Lab Number:** L1208052

Project Number: 08-8696 **Report Date:** 05/15/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG533979-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/05/12 01:15	05/05/12 01:43	1,7196A	DE
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG533986-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	05/05/12 03:20	05/09/12 20:45	30,5210B	DB
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534008-2										
Nitrogen, Nitrate	0.0997	J	mg/l	0.1000	0.0180	1	-	05/05/12 12:16	44,353.2	JO
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534137-1										
Solids, Total Dissolved	6.0	J	mg/l	10	4.4	1	-	05/07/12 13:30	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534543-1										
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	05/08/12 17:00	05/09/12 14:48	1,9010B/9012A	JO
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-04 Batch: WG534663-1										
Bromide	ND		mg/l	0.05	0.01	1	-	05/07/12 19:14	44,300.0	AU
Chloride	ND		mg/l	0.50	0.09	1	-	05/07/12 19:14	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534710-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:37	44,410.4	DW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534837-1										
Nitrogen, Ammonia	0.022	J	mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 20:51	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG535176-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	05/10/12 10:17	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG535268-1										
Total Organic Carbon	0.12	J	mg/l	0.50	0.03	1	-	05/11/12 07:53	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG535384-1										
Nitrogen, Total Kjeldahl	0.11	J	mg/l	0.30	0.02	1	05/11/12 14:00	05/14/12 22:19	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG535655-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	05/14/12 11:45	05/14/12 13:39	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-04 Batch: WG535839-1										
Sulfate	ND		mg/l	1.0	0.16	1	-	05/14/12 19:48	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533971-1								
SALINITY	97		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533979-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533986-2								
BOD, 5 day	97		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534008-1								
Nitrogen, Nitrate	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534137-2								
Solids, Total Dissolved	98		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534543-2 WG534543-3								
Cyanide, Total	101		99		80-120	2		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 Batch: WG534663-2								
Bromide	105		-		90-110	-		
Chloride	90		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534710-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534837-2					
Nitrogen, Ammonia	93	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG535176-2					
Alkalinity, Total	102	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG535268-2					
Total Organic Carbon	102	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG535384-2					
Nitrogen, Total Kjeldahl	98	-	85-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG535655-2					
Phenolics, Total	108	-	82-111	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 Batch: WG535839-2					
Sulfate	95	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533979-4 QC Sample: L1208052-04 Client ID: MW-24												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534008-3 QC Sample: L1208052-04 Client ID: MW-24												
Nitrogen, Nitrate	0.03J	4	3.9	98		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534543-4 WG534543-5 QC Sample: L1208052-02 Client ID: MW-23												
Cyanide, Total	0.002J	0.2	0.219	110		0.224	112		80-120	2		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534663-3 QC Sample: L1208052-04 Client ID: MW-24												
Bromide	0.15	0.4	0.58	108		-	-		77-119	-		20
Chloride	52.	100	170	119		-	-		40-151	-		18
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534710-3 QC Sample: L1208200-01 Client ID: MS Sample												
Chemical Oxygen Demand	69.	238	330	110		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534837-4 QC Sample: L1208035-01 Client ID: MS Sample												
Nitrogen, Ammonia	1.16	4	4.91	94		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535176-3 QC Sample: L1208218-01 Client ID: MS Sample												
Alkalinity, Total	45.	100	140	99		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535268-3 QC Sample: L1207830-01 Client ID: MS Sample												
Total Organic Carbon	3.4	16	20	102		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535384-4 QC Sample: L1208052-01 Client ID: MW-22												
Nitrogen, Total Kjeldahl	1.0	8	9.3	104		-	-		77-111	-		24

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535655-4 QC Sample: L1208052-03 Client ID: MW-25									
Phenolics, Total	0.03	0.8	0.73	88	-	-	77-124	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535839-3 QC Sample: L1207617-55 Client ID: MS Sample									
Sulfate	5.6	8	13	92	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533971-2 QC Sample: L1208052-01 Client ID: MW-22						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533972-1 QC Sample: L1208052-01 Client ID: MW-22						
Color, Apparent	130	130	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533979-3 QC Sample: L1208052-04 Client ID: MW-24						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533986-3 QC Sample: L1208027-01 Client ID: DUP Sample						
BOD, 5 day	310	340	mg/l	9		35
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534008-4 QC Sample: L1207978-02 Client ID: DUP Sample						
Nitrogen, Nitrate	1.8	1.8	mg/l	0		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534137-3 QC Sample: L1207978-02 Client ID: DUP Sample						
Solids, Total Dissolved	460	460	mg/l	0		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534663-4 QC Sample: L1208052-04 Client ID: MW-24						
Bromide	0.15	0.32	mg/l	**76**		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534663-4 QC Sample: L1208052-04 Client ID: MW-24						
Chloride	52.	56	mg/l	7		18
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534710-4 QC Sample: L1208200-01 Client ID: DUP Sample						
Chemical Oxygen Demand	69.	73	mg/l	6		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534837-3 QC Sample: L1208035-01 Client ID: DUP Sample					
Nitrogen, Ammonia	1.16	1.22	mg/l	5	20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535176-4 QC Sample: L1208218-01 Client ID: DUP Sample					
Alkalinity, Total	45.	45	mg CaCO3/L	0	10
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535268-4 QC Sample: L1207830-01 Client ID: DUP Sample					
Total Organic Carbon	3.4	3.5	mg/l	3	20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535384-3 QC Sample: L1208052-01 Client ID: MW-22					
Nitrogen, Total Kjeldahl	1.0	0.96	mg/l	4	24
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535655-3 QC Sample: L1208052-01 Client ID: MW-22					
Phenolics, Total	0.02J	0.02J	mg/l	NC	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535839-4 QC Sample: L1207617-55 Client ID: DUP Sample					
Sulfate	5.6	5.5	mg/l	2	20

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1208052-01A	Vial HCl preserved	A	N/A	1.7	Y	Absent	NYTCL-8260(14)
L1208052-01B	Vial HCl preserved	A	N/A	1.7	Y	Absent	NYTCL-8260(14)
L1208052-01C	Vial HCl preserved	A	N/A	1.7	Y	Absent	NYTCL-8260(14)
L1208052-01D	Vial H2SO4 preserved	A	N/A	1.7	Y	Absent	TOC-5310(28)
L1208052-01E	Vial H2SO4 preserved	A	N/A	1.7	Y	Absent	TOC-5310(28)
L1208052-01F	Amber 1000ml H2SO4 preserved	A	<2	1.7	Y	Absent	TPHENOL-420(28)
L1208052-01G	Plastic 1000ml unpreserved	A	7	1.7	Y	Absent	BOD-5210(2)
L1208052-01H	Plastic 1000ml unpreserved	A	7	1.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1208052-01I	Amber 250ml unpreserved	A	7	1.7	Y	Absent	SALINITY(1)
L1208052-01J	Plastic 250ml unpreserved	A	7	1.7	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1208052-01K	Plastic 250ml HNO3 preserved	A	<2	1.7	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1208052-01L	Plastic 250ml H2SO4 preserved	A	<2	1.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-01M	Plastic 250ml H2SO4 preserved	A	<2	1.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-01N	Plastic 250ml NaOH preserved	A	>12	1.7	Y	Absent	TCN-9010(14)
L1208052-01O	Plastic 250ml unpreserved	A	N/A	1.7	Y	Absent	ALK-T-2320(14)
L1208052-02A	Vial HCl preserved	B	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1208052-02B	Vial HCl preserved	B	N/A	2.2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1208052-02C	Vial HCl preserved	B	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1208052-02D	Vial H2SO4 preserved	B	N/A	2.2	Y	Absent	TOC-5310(28)
L1208052-02E	Vial H2SO4 preserved	B	N/A	2.2	Y	Absent	TOC-5310(28)
L1208052-02F	Amber 1000ml H2SO4 preserved	B	<2	2.2	Y	Absent	TPHENOL-420(28)
L1208052-02G	Plastic 1000ml unpreserved	B	7	2.2	Y	Absent	BOD-5210(2)
L1208052-02H	Plastic 1000ml unpreserved	B	7	2.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1208052-02I	Amber 250ml unpreserved	B	7	2.2	Y	Absent	SALINITY(1)
L1208052-02J	Plastic 250ml unpreserved	B	7	2.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1208052-02K	Plastic 250ml HNO3 preserved	B	<2	2.2	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1208052-02L	Plastic 250ml H2SO4 preserved	B	<2	2.2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-02M	Plastic 250ml H2SO4 preserved	B	<2	2.2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-02N	Plastic 250ml NaOH preserved	B	>12	2.2	Y	Absent	TCN-9010(14)
L1208052-02O	Plastic 250ml unpreserved	B	N/A	2.2	Y	Absent	ALK-T-2320(14)
L1208052-03A	Vial HCl preserved	A	N/A	1.7	Y	Absent	NYTCL-8260(14)
L1208052-03B	Vial HCl preserved	A	N/A	1.7	Y	Absent	NYTCL-8260(14)
L1208052-03C	Vial HCl preserved	A	N/A	1.7	Y	Absent	NYTCL-8260(14)
L1208052-03D	Vial H2SO4 preserved	A	N/A	1.7	Y	Absent	TOC-5310(28)
L1208052-03E	Vial H2SO4 preserved	A	N/A	1.7	Y	Absent	TOC-5310(28)
L1208052-03F	Amber 1000ml H2SO4 preserved	A	<2	1.7	Y	Absent	TPHENOL-420(28)
L1208052-03G	Plastic 1000ml unpreserved	A	7	1.7	Y	Absent	BOD-5210(2)
L1208052-03H	Plastic 1000ml unpreserved	A	7	1.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1208052-03I	Amber 250ml unpreserved	A	7	1.7	Y	Absent	SALINITY(1)
L1208052-03J	Plastic 250ml unpreserved	A	7	1.7	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1208052-03K	Plastic 250ml HNO3 preserved	A	<2	1.7	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1208052-03L	Plastic 250ml H2SO4 preserved	A	<2	1.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-03M	Plastic 250ml H2SO4 preserved	A	<2	1.7	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-03N	Plastic 250ml NaOH preserved	A	>12	1.7	Y	Absent	TCN-9010(14)
L1208052-03O	Plastic 250ml unpreserved	A	N/A	1.7	Y	Absent	ALK-T-2320(14)
L1208052-04A	Vial HCl preserved	B	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1208052-04B	Vial HCl preserved	B	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1208052-04C	Vial HCl preserved	B	N/A	2.2	Y	Absent	NYTCL-8260(14)
L1208052-04D	Vial H2SO4 preserved	B	N/A	2.2	Y	Absent	TOC-5310(28)
L1208052-04E	Vial H2SO4 preserved	B	N/A	2.2	Y	Absent	TOC-5310(28)
L1208052-04F	Amber 1000ml H2SO4 preserved	B	<2	2.2	Y	Absent	TPHENOL-420(28)
L1208052-04G	Plastic 1000ml unpreserved	B	7	2.2	Y	Absent	BOD-5210(2)
L1208052-04H	Plastic 1000ml unpreserved	B	7	2.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1208052-04I	Amber 250ml unpreserved	B	7	2.2	Y	Absent	SALINITY(1)
L1208052-04J	Plastic 250ml unpreserved	B	7	2.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1208052-04K	Plastic 250ml HNO3 preserved	B	<2	2.2	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1208052-04L	Plastic 250ml H2SO4 preserved	B	<2	2.2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-04M	Plastic 250ml H2SO4 preserved	B	<2	2.2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1208052-04N	Plastic 250ml NaOH preserved	B	>12	2.2	Y	Absent	TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1208052
Report Date: 05/15/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1208052-04O	Plastic 250ml unpreserved	B	N/A	2.2	Y	Absent	ALK-T-2320(14)
L1208052-05A	Vial HCl preserved	A	N/A	1.7	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1208052
Project Number:	08-8696	**Report Date:**	05/15/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1208052
Project Number:	08-8696	**Report Date:**	05/15/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1208052
Project Number: 08-8696 **Report Date:** 05/15/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised May 11, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D, Fecal Coliform-EC Medium 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterolert, E.Coli 9223.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics, Acid Extractables (Phenols), Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8081B, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C,6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8270C, 8270D, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 3005A, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B, 8015B, 8015C.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/4/12

ALPHA Job #: L1208052

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: CT Male Associates
Address: 50 Century Hill Drive, Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: k.moline@ctmale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Moline
ALPHA Quote #: 2012282

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 5/15/12 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program NYCRR Part 360 Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All **CAM** methods for inorganic analyses require MS every 20 soil samples)

NYCRR Part 360 Baseline Parameters
Metals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol - EPA 420	Alkalinity	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Cr6+, Hexavalent Chromium	Salinity	Sample Specific Comments	TOTAL # BOTTLES
08052.1	MW-22	5/4/12	0745	GW	JD	X	X	X	X	X	X	X	X	X	X	X		15
2	MW-23	5/4/12	0845	GW	JD	X	X	X	X	X	X	X	X	X	X	X		15
3	MW-25	5/4/12	0930	GW	JD	X	X	X	X	X	X	X	X	X	X	X		15
4	MW-24	5/4/12	1015	GW	JD	X	X	X	X	X	X	X	X	X	X	X		15
5	transport blank		—	—										X				1
Container Type						P	P	P	A	P	V	P	P	V	P	A		
Preservative						C	E	A	D	A	D	D	A	B	A	A		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	5/4/12 1446		5/4/12 1446
	5/4/12 2030		5/4/12 2030
	5/4/12 2330		5/4/12 2330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

Serial_No:05151212:37

ANALYTICAL REPORT

Lab Number:	L1207830
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
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Project Name:	US SALT
Project Number:	08.8696
Report Date:	05/11/12

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Eight Walkup Drive, Westborough, MA 01581-1019
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Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1207830-01	MW-26	READING, NY	05/02/12 11:35
L1207830-02	MW-27	READING, NY	05/02/12 12:30
L1207830-03	MW-29	READING, NY	05/02/12 13:20
L1207830-04	MW-28	READING, NY	05/02/12 14:00
L1207830-05	TRANSPORT BLANK	READING, NY	05/02/12 00:00

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1207830-04 has an elevated detection limit for Mercury due to the 5x prep dilution required by the sample matrix.

The WG533426-4 MS recovery, performed on L1207830-01, is above the acceptance criteria for Mercury (133%). A post digestion spike was performed with an acceptable recovery of 119%.

Nitrogen, Total Kjeldahl

L1207830-04 has an elevated detection limit due to the dilution required by the sample matrix.

BOD, 5 day

L1207830-04 was set at the correct dilution for BOD analysis according to prep screening; however, not enough depletion occurred. Therefore, the sample is reported as "non-detect" at an elevated detection limit. Due to the expiration of the method required holding time, re-analysis could not be performed.

The WG533708-2 LCS recovery (80%), associated with L1207830-01 through -04, is outside the acceptance criteria. Due to the expiration of the method required holding time, no further action was taken.

Phenolics, Total

The WG534752-3 Laboratory Duplicate RPD (15%), performed on L1207830-03, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 05/11/12

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-01	Date Collected:	05/02/12 11:35
Client ID:	MW-26	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/10/12 11:26		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-01	Date Collected:	05/02/12 11:35
Client ID:	MW-26	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-02	Date Collected:	05/02/12 12:30
Client ID:	MW-27	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/10/12 11:59		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-02	Date Collected:	05/02/12 12:30
Client ID:	MW-27	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-03	Date Collected:	05/02/12 13:20
Client ID:	MW-29	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/10/12 12:31		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-03 Date Collected: 05/02/12 13:20

Client ID: MW-29 Date Received: 05/02/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-04	Date Collected:	05/02/12 14:00
Client ID:	MW-28	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/10/12 13:04		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-04	Date Collected:	05/02/12 14:00
Client ID:	MW-28	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	8.3		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

SAMPLE RESULTS

Lab ID:	L1207830-05	Date Collected:	05/02/12 00:00
Client ID:	TRANSPORT BLANK	Date Received:	05/02/12
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260B		
Analytical Date:	05/10/12 10:54		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-05 Date Collected: 05/02/12 00:00

Client ID: TRANSPORT BLANK Date Received: 05/02/12

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/10/12 08:11
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG535300-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260B
Analytical Date: 05/10/12 08:11
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG535300-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535300-1 WG535300-2								
Methylene chloride	100		101		70-130	1		20
1,1-Dichloroethane	96		96		70-130	0		20
Chloroform	97		101		70-130	4		20
2-Chloroethylvinyl ether	85		92		70-130	8		20
Carbon tetrachloride	84		90		63-132	7		20
1,2-Dichloropropane	94		96		70-130	2		20
Dibromochloromethane	69		81		63-130	16		20
1,1,2-Trichloroethane	85		94		70-130	10		20
Tetrachloroethene	94		97		70-130	3		20
Chlorobenzene	92		93		75-130	1		20
Trichlorofluoromethane	103		105		62-150	2		20
1,2-Dichloroethane	94		100		70-130	6		20
1,1,1-Trichloroethane	92		95		67-130	3		20
Bromodichloromethane	78		87		67-130	11		20
trans-1,3-Dichloropropene	71		81		70-130	13		20
cis-1,3-Dichloropropene	79		85		70-130	7		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	61		79		54-136	**26**	Q	20
1,1,2,2-Tetrachloroethane	91		105		67-130	14		20
Benzene	98		99		70-130	1		20
Toluene	94		93		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535300-1 WG535300-2								
Ethylbenzene	95		96		70-130	1		20
Chloromethane	95		98		64-130	3		20
Bromomethane	88		95		39-139	8		20
Vinyl chloride	105		109		55-140	4		20
Chloroethane	105		103		55-138	2		20
1,1-Dichloroethene	100		102		61-145	2		20
trans-1,2-Dichloroethene	95		96		70-130	1		20
Trichloroethene	94		97		70-130	3		20
1,2-Dichlorobenzene	92		95		70-130	3		20
1,3-Dichlorobenzene	96		98		70-130	2		20
1,4-Dichlorobenzene	94		96		70-130	2		20
Methyl tert butyl ether	87		94		63-130	8		20
p/m-Xylene	96		97		70-130	1		20
o-Xylene	94		98		70-130	4		20
cis-1,2-Dichloroethene	99		100		70-130	1		20
Dibromomethane	87		89		70-130	2		20
1,2,3-Trichloropropane	83		91		64-130	9		20
Acrylonitrile	91		102		70-130	11		20
Isopropyl Ether	92		95		70-130	3		20
tert-Butyl Alcohol	76		87		70-130	13		20
Styrene	93		95		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535300-1 WG535300-2								
Dichlorodifluoromethane	113		117		36-147	3		20
Acetone	69		72		58-148	4		20
Carbon disulfide	84		92		51-130	9		20
2-Butanone	88		92		63-138	4		20
Vinyl acetate	94		99		70-130	5		20
4-Methyl-2-pentanone	83		94		59-130	12		20
2-Hexanone	76		89		57-130	16		20
Bromochloromethane	93		95		70-130	2		20
2,2-Dichloropropane	84		85		63-133	1		20
1,2-Dibromoethane	80		93		70-130	15		20
1,3-Dichloropropane	87		95		70-130	9		20
1,1,1,2-Tetrachloroethane	82		88		64-130	7		20
Bromobenzene	90		91		70-130	1		20
n-Butylbenzene	108		103		53-136	5		20
sec-Butylbenzene	104		100		70-130	4		20
tert-Butylbenzene	101		99		70-130	2		20
o-Chlorotoluene	96		96		70-130	0		20
p-Chlorotoluene	98		94		70-130	4		20
1,2-Dibromo-3-chloropropane	77		81		41-144	5		20
Hexachlorobutadiene	113		104		63-130	8		20
Isopropylbenzene	98		97		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535300-1 WG535300-2								
p-Isopropyltoluene	103		99		70-130	4		20
Naphthalene	89		102		70-130	14		20
n-Propylbenzene	100		97		69-130	3		20
1,2,3-Trichlorobenzene	99		111		70-130	11		20
1,2,4-Trichlorobenzene	94		103		70-130	9		20
1,3,5-Trimethylbenzene	97		94		64-130	3		20
1,2,4-Trimethylbenzene	95		95		70-130	0		20
Methyl Acetate	89		95		70-130	7		20
Ethyl Acetate	83		94		70-130	12		20
Cyclohexane	106		106		70-130	0		20
Ethyl-Tert-Butyl-Ether	89		93		70-130	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	108		108		70-130	0		20
1,4-Diethylbenzene	99		97		70-130	2		20
4-Ethyltoluene	99		97		70-130	2		20
1,2,4,5-Tetramethylbenzene	91		93		70-130	2		20
Ethyl ether	100		105		59-134	5		20
trans-1,4-Dichloro-2-butene	75		84		70-130	11		20
Methyl cyclohexane	104		104		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG535300-1 WG535300-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		101		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	101		99		70-130

METALS

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-01
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 11:35
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	1.9		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Antimony, Total	0.0008		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:34	EPA 3005A	1,6020	AK
Arsenic, Total	0.003	J	mg/l	0.005	0.003	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Barium, Total	0.050		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:34	EPA 3005A	1,6020	AK
Boron, Total	0.147		mg/l	0.030	0.008	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Calcium, Total	78		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Chromium, Total	0.003	J	mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Iron, Total	4.3		mg/l	0.05	0.02	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Magnesium, Total	24		mg/l	0.10	0.05	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Manganese, Total	0.209		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/03/12 13:45	05/04/12 11:45	EPA 7470A	1,7470A	KL
Nickel, Total	0.005	J	mg/l	0.025	0.003	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Potassium, Total	7.4		mg/l	2.5	0.80	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Sodium, Total	18		mg/l	2.0	0.80	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0005	0.00003	1	05/03/12 12:45	05/04/12 11:34	EPA 3005A	1,6020	AK
Vanadium, Total	0.003	J	mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Zinc, Total	0.025	J	mg/l	0.050	0.005	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	290		mg/l	0.66	0.24	1	05/03/12 12:45	05/09/12 08:50	EPA 3005A	1,6010B	AI

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-02
Client ID: MW-27
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 12:30
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	1.6		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Antimony, Total	0.0006		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:37	EPA 3005A	1,6020	AK
Arsenic, Total	0.010		mg/l	0.005	0.003	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Barium, Total	0.039		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:37	EPA 3005A	1,6020	AK
Boron, Total	0.021	J	mg/l	0.030	0.008	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Calcium, Total	89		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Chromium, Total	0.003	J	mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Iron, Total	3.3		mg/l	0.05	0.02	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Magnesium, Total	27		mg/l	0.10	0.05	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Manganese, Total	0.260		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/03/12 13:45	05/04/12 11:50	EPA 7470A	1,7470A	KL
Nickel, Total	0.004	J	mg/l	0.025	0.003	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Potassium, Total	3.5		mg/l	2.5	0.80	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Sodium, Total	11		mg/l	2.0	0.80	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0005	0.00003	1	05/03/12 12:45	05/04/12 11:37	EPA 3005A	1,6020	AK
Vanadium, Total	0.002	J	mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Zinc, Total	0.025	J	mg/l	0.050	0.005	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	330		mg/l	0.66	0.24	1	05/03/12 12:45	05/09/12 08:53	EPA 3005A	1,6010B	AI

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-03
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 13:20
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.1		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Antimony, Total	0.0004	J	mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:39	EPA 3005A	1,6020	AK
Arsenic, Total	0.007		mg/l	0.005	0.003	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Barium, Total	0.092		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:39	EPA 3005A	1,6020	AK
Boron, Total	0.108		mg/l	0.030	0.008	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Calcium, Total	50		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Chromium, Total	0.003	J	mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Iron, Total	4.4		mg/l	0.05	0.02	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Magnesium, Total	13		mg/l	0.10	0.05	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Manganese, Total	0.186		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/03/12 13:45	05/04/12 11:52	EPA 7470A	1,7470A	KL
Nickel, Total	0.004	J	mg/l	0.025	0.003	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Potassium, Total	4.6		mg/l	2.5	0.80	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Sodium, Total	12		mg/l	2.0	0.80	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Thallium, Total	ND		mg/l	0.0005	0.00003	1	05/03/12 12:45	05/04/12 11:39	EPA 3005A	1,6020	AK
Vanadium, Total	0.003	J	mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Zinc, Total	0.026	J	mg/l	0.050	0.005	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	0.24	1	05/03/12 12:45	05/09/12 08:56	EPA 3005A	1,6010B	AI

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-04
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 14:00
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	55		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Antimony, Total	0.0006		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:42	EPA 3005A	1,6020	AK
Arsenic, Total	0.031		mg/l	0.005	0.003	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Barium, Total	0.354		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Beryllium, Total	0.0028		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:42	EPA 3005A	1,6020	AK
Boron, Total	0.140		mg/l	0.030	0.008	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Cadmium, Total	0.002	J	mg/l	0.005	0.001	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Calcium, Total	80		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Chromium, Total	0.08		mg/l	0.01	0.002	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Cobalt, Total	0.047		mg/l	0.020	0.002	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Copper, Total	0.056		mg/l	0.010	0.005	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Iron, Total	110		mg/l	0.05	0.02	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Lead, Total	0.039		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Magnesium, Total	40		mg/l	0.10	0.05	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Manganese, Total	1.48		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Mercury, Total	ND		mg/l	0.0010	0.0003	1	05/03/12 13:45	05/04/12 11:58	EPA 7470A	1,7470A	KL
Nickel, Total	0.105		mg/l	0.025	0.003	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Potassium, Total	9.7		mg/l	2.5	0.80	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Sodium, Total	15		mg/l	2.0	0.80	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Thallium, Total	0.0003	J	mg/l	0.0005	0.00003	1	05/03/12 12:45	05/04/12 11:42	EPA 3005A	1,6020	AK
Vanadium, Total	0.065		mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Zinc, Total	0.227		mg/l	0.050	0.005	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI
Total Hardness by SM 2340B - Westborough Lab											
Hardness	360		mg/l	0.66	0.24	1	05/03/12 12:45	05/09/12 08:59	EPA 3005A	1,6010B	AI

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG533426-1										
Mercury, Total	ND		mg/l	0.0002	0.0001	1	05/03/12 13:45	05/04/12 11:39	1,7470A	KL

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG533487-1										
Aluminum, Total	ND		mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Arsenic, Total	ND		mg/l	0.005	0.003	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Barium, Total	ND		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Boron, Total	ND		mg/l	0.030	0.008	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Calcium, Total	0.03	J	mg/l	0.10	0.02	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Chromium, Total	ND		mg/l	0.01	0.002	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Copper, Total	ND		mg/l	0.010	0.005	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Iron, Total	ND		mg/l	0.05	0.02	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Lead, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Magnesium, Total	ND		mg/l	0.10	0.05	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Manganese, Total	ND		mg/l	0.010	0.001	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Nickel, Total	ND		mg/l	0.025	0.003	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Potassium, Total	ND		mg/l	2.5	0.80	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Selenium, Total	ND		mg/l	0.010	0.003	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Silver, Total	ND		mg/l	0.007	0.002	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Sodium, Total	ND		mg/l	2.0	0.80	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI
Zinc, Total	ND		mg/l	0.050	0.005	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-04 Batch: WG533487-1										
Hardness	ND		mg/l	0.66	0.24	1	05/03/12 12:45	05/09/12 07:24	1,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-04 Batch: WG533489-1										
Antimony, Total	0.0002	J	mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:08	1,6020	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	05/03/12 12:45	05/04/12 11:08	1,6020	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	05/03/12 12:45	05/04/12 11:08	1,6020	AK

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG533426-2								
Mercury, Total	104		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG533487-2					
Aluminum, Total	95	-	80-120	-	
Arsenic, Total	107	-	80-120	-	
Barium, Total	100	-	80-120	-	
Boron, Total	106	-	80-120	-	
Cadmium, Total	104	-	80-120	-	
Calcium, Total	96	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	97	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	98	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	98	-	80-120	-	
Manganese, Total	98	-	80-120	-	
Nickel, Total	97	-	80-120	-	
Potassium, Total	99	-	80-120	-	
Selenium, Total	105	-	80-120	-	
Silver, Total	103	-	80-120	-	
Sodium, Total	99	-	80-120	-	
Vanadium, Total	100	-	80-120	-	
Zinc, Total	98	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-04 Batch: WG533487-2					
Hardness	97	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-04 Batch: WG533489-2					
Antimony, Total	92	-	80-120	-	
Beryllium, Total	105	-	80-120	-	
Thallium, Total	102	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533426-4 QC Sample: L1207830-01 Client ID: MW-26												
Mercury, Total	ND	0.001	0.0013	**133**	Q	-	-		70-130	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533487-4 QC Sample: L1207838-04 Client ID: MS Sample										
Aluminum, Total	3.9	2	6.5	**130**	Q	-	-	75-125	-	20
Arsenic, Total	0.011	0.12	0.145	112		-	-	75-125	-	20
Barium, Total	0.032	2	2.10	103		-	-	75-125	-	20
Boron, Total	0.029J	1	1.13	113		-	-	75-125	-	20
Cadmium, Total	0.001J	0.051	0.055	108		-	-	75-125	-	20
Calcium, Total	50.	10	62	120		-	-	75-125	-	20
Chromium, Total	0.05	0.2	0.26	105		-	-	75-125	-	20
Cobalt, Total	0.002J	0.5	0.500	100		-	-	75-125	-	20
Copper, Total	0.025	0.25	0.287	105		-	-	75-125	-	20
Iron, Total	8.9	1	10	110		-	-	75-125	-	20
Lead, Total	0.006J	0.51	0.534	105		-	-	75-125	-	20
Magnesium, Total	10.	10	20	100		-	-	75-125	-	20
Manganese, Total	0.079	0.5	0.589	102		-	-	75-125	-	20
Nickel, Total	0.011J	0.5	0.506	101		-	-	75-125	-	20
Potassium, Total	3.5	10	14	105		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.132	110		-	-	75-125	-	20
Silver, Total	ND	0.05	0.053	106		-	-	75-125	-	20
Sodium, Total	14.	10	26	120		-	-	75-125	-	20
Vanadium, Total	0.020	0.5	0.537	103		-	-	75-125	-	20
Zinc, Total	0.243	0.5	0.746	101		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533487-4 QC Sample: L1207838-04 Client ID: MS Sample									
Hardness	170	66.2	240	106	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533489-4 QC Sample: L1207838-04 Client ID: MS Sample									
Antimony, Total	0.003	0.5	0.4876	97	-	-	80-120	-	20
Beryllium, Total	0.0003J	0.05	0.0538	108	-	-	80-120	-	20
Thallium, Total	0.0001J	0.12	0.1216	101	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533426-3 QC Sample: L1207830-01 Client ID: MW-26						
Mercury, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533487-3 QC Sample: L1207838-04 Client ID: DUP Sample					
Aluminum, Total	3.9	3.9	mg/l	0	20
Arsenic, Total	0.011	0.012	mg/l	4	20
Barium, Total	0.032	0.032	mg/l	0	20
Cadmium, Total	0.001J	0.001J	mg/l	NC	20
Calcium, Total	50.	49	mg/l	2	20
Chromium, Total	0.05	0.05	mg/l	0	20
Cobalt, Total	0.002J	0.002J	mg/l	NC	20
Copper, Total	0.025	0.025	mg/l	0	20
Iron, Total	8.9	8.7	mg/l	2	20
Lead, Total	0.006J	0.006J	mg/l	NC	20
Magnesium, Total	10.	10	mg/l	0	20
Manganese, Total	0.079	0.077	mg/l	3	20
Nickel, Total	0.011J	0.010J	mg/l	NC	20
Potassium, Total	3.5	3.5	mg/l	0	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	14.	14	mg/l	0	20
Vanadium, Total	0.020	0.020	mg/l	1	20
Zinc, Total	0.243	0.240	mg/l	1	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533489-3 QC Sample: L1207838-04 Client ID: DUP Sample					
Antimony, Total	0.003	0.0028	mg/l	6	20
Beryllium, Total	0.0003J	0.0002J	mg/l	NC	20
Thallium, Total	0.0001J	0.0001J	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-01
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 11:35
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	80		A.P.C.U.	50	50.	10	-	05/03/12 01:00	30,2120B	ML
Alkalinity, Total	270		mg CaCO3/L	2.0	NA	1	-	05/09/12 11:59	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	05/03/12 00:45	30,2520B	ML
Solids, Total Dissolved	400		mg/l	10	4.4	1	-	05/03/12 11:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.002	1	05/03/12 13:00	05/07/12 14:46	1,9010B/9012A	JO
Nitrogen, Ammonia	0.364		mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 21:06	44,350.1	AT
Nitrogen, Nitrate	0.04	J	mg/l	0.10	0.02	1	-	05/03/12 22:41	44,353.2	DB
Nitrogen, Total Kjeldahl	0.80		mg/l	0.30	0.06	1	05/08/12 21:45	05/10/12 21:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	23		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:38	44,410.4	DW
BOD, 5 day	ND		mg/l	2.0	NA	1	05/04/12 01:05	05/08/12 17:45	30,5210B	SM
Total Organic Carbon	3.4		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.02	J	mg/l	0.03	0.01	1	05/09/12 10:45	05/09/12 11:54	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/03/12 03:15	05/03/12 03:45	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.09		mg/l	0.05	0.01	1	-	05/03/12 23:26	44,300.0	AU
Chloride	3.2		mg/l	0.50	0.09	1	-	05/03/12 23:26	44,300.0	AU
Sulfate	71		mg/l	1.0	0.16	1	-	05/03/12 23:26	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-02
Client ID: MW-27
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 12:30
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	110		A.P.C.U.	50	50.	10	-	05/03/12 01:00	30,2120B	ML
Alkalinity, Total	240		mg CaCO3/L	2.0	NA	1	-	05/09/12 11:59	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	05/03/12 00:45	30,2520B	ML
Solids, Total Dissolved	450		mg/l	10	4.4	1	-	05/03/12 11:35	30,2540C	DW
Cyanide, Total	0.004	J	mg/l	0.005	0.002	1	05/03/12 13:00	05/07/12 14:32	1,9010B/9012A	JO
Nitrogen, Ammonia	0.108		mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 21:07	44,350.1	AT
Nitrogen, Nitrate	0.03	J	mg/l	0.10	0.02	1	-	05/03/12 22:42	44,353.2	DB
Nitrogen, Total Kjeldahl	0.38		mg/l	0.30	0.06	1	05/08/12 21:45	05/10/12 21:38	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	16	J	mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:38	44,410.4	DW
BOD, 5 day	ND		mg/l	2.0	NA	1	05/04/12 01:05	05/08/12 17:45	30,5210B	SM
Total Organic Carbon	3.1		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.05		mg/l	0.03	0.01	1	05/09/12 10:45	05/09/12 11:55	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/03/12 03:15	05/03/12 03:45	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.05	0.01	1	-	05/03/12 23:38	44,300.0	AU
Chloride	17		mg/l	0.50	0.09	1	-	05/03/12 23:38	44,300.0	AU
Sulfate	110		mg/l	10	1.6	10	-	05/04/12 02:26	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-03
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 13:20
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	90		A.P.C.U.	50	50.	10	-	05/03/12 01:00	30,2120B	ML
Alkalinity, Total	180		mg CaCO3/L	2.0	NA	1	-	05/09/12 11:59	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	05/03/12 00:45	30,2520B	ML
Solids, Total Dissolved	260		mg/l	10	4.4	1	-	05/03/12 11:35	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.002	1	05/03/12 13:00	05/07/12 14:32	1,9010B/9012A	JO
Nitrogen, Ammonia	0.179		mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 21:08	44,350.1	AT
Nitrogen, Nitrate	0.04	J	mg/l	0.10	0.02	1	-	05/03/12 22:43	44,353.2	DB
Nitrogen, Total Kjeldahl	0.42		mg/l	0.30	0.06	1	05/08/12 21:45	05/10/12 21:39	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	20		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:38	44,410.4	DW
BOD, 5 day	ND		mg/l	2.0	NA	1	05/04/12 01:05	05/08/12 17:45	30,5210B	SM
Total Organic Carbon	3.0		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.07		mg/l	0.03	0.01	1	05/09/12 10:45	05/09/12 11:56	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/03/12 03:15	05/03/12 03:45	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.05	0.01	1	-	05/03/12 23:50	44,300.0	AU
Chloride	1.8		mg/l	0.50	0.09	1	-	05/03/12 23:50	44,300.0	AU
Sulfate	38		mg/l	1.0	0.16	1	-	05/03/12 23:50	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

SAMPLE RESULTS

Lab ID: L1207830-04
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 05/02/12 14:00
Date Received: 05/02/12
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	90		A.P.C.U.	50	50.	10	-	05/03/12 01:00	30,2120B	ML
Alkalinity, Total	200		mg CaCO3/L	2.0	NA	1	-	05/09/12 11:59	30,2320B	JV
SALINITY	ND		SU	2.0	2.0	1	-	05/03/12 00:45	30,2520B	ML
Solids, Total Dissolved	310		mg/l	10	4.4	1	-	05/03/12 11:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.002	1	05/03/12 13:00	05/07/12 14:33	1,9010B/9012A	JO
Nitrogen, Ammonia	3.50		mg/l	1.88	0.413	25	05/09/12 18:30	05/10/12 21:09	44,350.1	AT
Nitrogen, Nitrate	0.02	J	mg/l	0.10	0.02	1	-	05/03/12 22:43	44,353.2	DB
Nitrogen, Total Kjeldahl	7.8	J	mg/l	15	3.0	50	05/08/12 21:45	05/10/12 21:42	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	260		mg/l	40	14.	2	05/09/12 08:00	05/09/12 10:38	44,410.4	DW
BOD, 5 day	ND		mg/l	10	NA	5	05/04/12 01:05	05/08/12 17:45	30,5210B	SM
Total Organic Carbon	4.5		mg/l	2.0	0.10	4	-	05/11/12 07:53	30,5310C	DW
Phenolics, Total	0.04		mg/l	0.03	0.01	1	05/09/12 10:45	05/09/12 11:56	4,420.1	MP
Chromium, Hexavalent	0.002	J	mg/l	0.010	0.001	1	05/03/12 03:15	05/03/12 03:45	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.16		mg/l	0.05	0.01	1	-	05/04/12 00:02	44,300.0	AU
Chloride	2.6		mg/l	0.50	0.09	1	-	05/04/12 00:02	44,300.0	AU
Sulfate	54		mg/l	1.0	0.16	1	-	05/04/12 00:02	44,300.0	AU

Project Name: US SALT **Lab Number:** L1207830

Project Number: 08.8696 **Report Date:** 05/11/12

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG533368-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	05/03/12 03:15	05/03/12 03:44	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG533392-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	05/03/12 11:35	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG533409-3										
Cyanide, Total	ND		mg/l	0.005	0.002	1	05/03/12 13:00	05/07/12 14:21	1,9010B/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG533645-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	05/03/12 22:22	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG533708-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	05/04/12 01:05	05/08/12 17:45	30,5210B	SM
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-04 Batch: WG533931-1										
Bromide	ND		mg/l	0.05	0.01	1	-	05/03/12 22:38	44,300.0	AU
Chloride	ND		mg/l	0.50	0.09	1	-	05/03/12 22:38	44,300.0	AU
Sulfate	ND		mg/l	1.0	0.16	1	-	05/03/12 22:38	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534592-1										
Nitrogen, Total Kjeldahl	0.14	J	mg/l	0.30	0.02	1	05/08/12 21:45	05/10/12 21:20	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534710-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	05/09/12 08:00	05/09/12 10:37	44,410.4	DW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534752-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	05/09/12 10:45	05/09/12 11:53	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534815-1										
Alkalinity, Total	ND		mg CaCO3/L	2.0	NA	1	-	05/09/12 11:59	30,2320B	JV
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG534837-1										
Nitrogen, Ammonia	0.022	J	mg/l	0.075	0.017	1	05/09/12 18:30	05/10/12 20:51	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG535268-1										
Total Organic Carbon	0.12	J	mg/l	0.50	0.03	1	-	05/11/12 07:53	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533349-1								
SALINITY	103		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533368-2								
Chromium, Hexavalent	94		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533392-2								
Solids, Total Dissolved	94		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533409-1 WG533409-2								
Cyanide, Total	114		112		80-120	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533645-2								
Nitrogen, Nitrate	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG533708-2								
BOD, 5 day	**80**	Q	-		85-115	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 Batch: WG533931-2					
Bromide	105	-	90-110	-	
Chloride	110	-	90-110	-	
Sulfate	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534592-2					
Nitrogen, Total Kjeldahl	98	-	85-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534710-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534752-2					
Phenolics, Total	84	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534815-2					
Alkalinity, Total	101	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG534837-2					
Nitrogen, Ammonia	93	-	80-120	-	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG535268-2					
Total Organic Carbon	102	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533368-4 QC Sample: L1207830-04 Client ID: MW-28												
Chromium, Hexavalent	0.002J	0.1	0.102	102		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533409-4 WG533409-5 QC Sample: L1207827-01 Client ID: MS Sample												
Cyanide, Total	1.46	0.2	1.67	105		1.61	**75**	Q	80-120	4		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533645-4 QC Sample: L1207766-01 Client ID: MS Sample												
Nitrogen, Nitrate	3.4	4	6.7	**82**	Q	-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533708-4 QC Sample: L1207763-01 Client ID: MS Sample												
BOD, 5 day	ND	100	86	86		-	-		50-145	-		35
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533931-3 QC Sample: L1207830-01 Client ID: MW-26												
Bromide	0.09	0.4	0.49	100		-	-		77-119	-		20
Chloride	3.2	4	7.4	105		-	-		40-151	-		18
Sulfate	71.	8	76	62		-	-		60-140	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534592-4 QC Sample: L1207830-01 Client ID: MW-26												
Nitrogen, Total Kjeldahl	0.80	8	8.6	98		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534710-3 QC Sample: L1208200-01 Client ID: MS Sample												
Chemical Oxygen Demand	69.	238	330	110		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534752-4 QC Sample: L1207830-04 Client ID: MW-28												
Phenolics, Total	0.04	0.8	0.72	85		-	-		77-124	-		12

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534815-4 QC Sample: L1207830-03 Client ID: MW-29									
Alkalinity, Total	180	100	280	99	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534837-4 QC Sample: L1208035-01 Client ID: MS Sample									
Nitrogen, Ammonia	1.16	4	4.91	94	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535268-3 QC Sample: L1207830-01 Client ID: MW-26									
Total Organic Carbon	3.4	16	20	102	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533349-2 QC Sample: L1207830-01 Client ID: MW-26						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533350-1 QC Sample: L1207830-01 Client ID: MW-26						
Color, Apparent	80.	80	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533368-3 QC Sample: L1207830-01 Client ID: MW-26						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533392-3 QC Sample: L1207201-07 Client ID: DUP Sample						
Solids, Total Dissolved	22000	22000	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533645-3 QC Sample: L1207766-01 Client ID: DUP Sample						
Nitrogen, Nitrate	3.4	3.3	mg/l	3		6
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533708-3 QC Sample: L1207763-03 Client ID: DUP Sample						
BOD, 5 day	230	250	mg/l	8		35
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG533931-4 QC Sample: L1207830-01 Client ID: MW-26						
Bromide	0.09	0.05J	mg/l	NC		20
Chloride	3.2	3.1	mg/l	3		18
Sulfate	71.	70	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534592-3 QC Sample: L1207830-01 Client ID: MW-26						
Nitrogen, Total Kjeldahl	0.80	0.83	mg/l	4		24

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534710-4 QC Sample: L1208200-01 Client ID: DUP Sample						
Chemical Oxygen Demand	69.	73	mg/l	6		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534752-3 QC Sample: L1207830-03 Client ID: MW-29						
Phenolics, Total	0.07	0.06	mg/l	**15**	Q	12
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534815-3 QC Sample: L1207830-03 Client ID: MW-29						
Alkalinity, Total	180	180	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG534837-3 QC Sample: L1208035-01 Client ID: DUP Sample						
Nitrogen, Ammonia	1.16	1.22	mg/l	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG535268-4 QC Sample: L1207830-01 Client ID: MW-26						
Total Organic Carbon	3.4	3.5	mg/l	3		20

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207830-01A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-01B	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-01C	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-01D	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-01E	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-01F	Amber 1000ml H2SO4 preserved	A	<2	2.4	Y	Absent	TPHENOL-420(28)
L1207830-01G	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	BOD-5210(2)
L1207830-01H	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1207830-01I	Amber 250ml unpreserved	A	7	2.4	Y	Absent	SALINITY(1)
L1207830-01J	Plastic 250ml unpreserved	A	7	2.4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1207830-01K	Plastic 250ml HNO3 preserved	A	<2	2.4	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1207830-01L	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-01M	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-01N	Plastic 250ml NaOH preserved	A	>12	2.4	Y	Absent	TCN-9010(14)
L1207830-01O	Plastic 250ml unpreserved	A	N/A	2.4	Y	Absent	ALK-T-2320(14)
L1207830-02A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-02B	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207830-02C	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-02D	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-02E	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-02F	Amber 1000ml H2SO4 preserved	A	<2	2.4	Y	Absent	TPHENOL-420(28)
L1207830-02G	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	BOD-5210(2)
L1207830-02H	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1207830-02I	Amber 250ml unpreserved	A	7	2.4	Y	Absent	SALINITY(1)
L1207830-02J	Plastic 250ml unpreserved	A	7	2.4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1207830-02K	Plastic 250ml HNO3 preserved	A	<2	2.4	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1207830-02L	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-02M	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-02N	Plastic 250ml NaOH preserved	A	>12	2.4	Y	Absent	TCN-9010(14)
L1207830-02O	Plastic 250ml unpreserved	A	N/A	2.4	Y	Absent	ALK-T-2320(14)
L1207830-03A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-03B	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-03C	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-03D	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-03E	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-03F	Amber 1000ml H2SO4 preserved	A	<2	2.4	Y	Absent	TPHENOL-420(28)
L1207830-03G	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	BOD-5210(2)
L1207830-03H	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1207830-03I	Amber 250ml unpreserved	A	7	2.4	Y	Absent	SALINITY(1)
L1207830-03J	Plastic 250ml unpreserved	A	7	2.4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207830-03K	Plastic 250ml HNO3 preserved	A	<2	2.4	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1207830-03L	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-03M	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-03N	Plastic 250ml NaOH preserved	A	>12	2.4	Y	Absent	TCN-9010(14)
L1207830-03O	Plastic 250ml unpreserved	A	N/A	2.4	Y	Absent	ALK-T-2320(14)
L1207830-04A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-04B	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-04C	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1207830-04D	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-04E	Vial H2SO4 preserved	A	N/A	2.4	Y	Absent	TOC-5310(28)
L1207830-04F	Amber 1000ml H2SO4 preserved	A	<2	2.4	Y	Absent	TPHENOL-420(28)
L1207830-04G	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	BOD-5210(2)
L1207830-04H	Plastic 1000ml unpreserved	A	7	2.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1207830-04I	Amber 250ml unpreserved	A	7	2.4	Y	Absent	SALINITY(1)
L1207830-04J	Plastic 250ml unpreserved	A	7	2.4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1207830-04K	Plastic 250ml HNO3 preserved	A	<2	2.4	Y	Absent	TL-6020T(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),B-TI(180),CR-TI(180),NI-TI(180),BE-6020T(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),SB-6020T(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),HARDT(180),K-TI(180),NA-TI(180)
L1207830-04L	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-04M	Plastic 250ml H2SO4 preserved	A	<2	2.4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1207830-04N	Plastic 250ml NaOH preserved	A	>12	2.4	Y	Absent	TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1207830
Report Date: 05/11/12

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1207830-04O	Plastic 250ml unpreserved	A	N/A	2.4	Y	Absent	ALK-T-2320(14)
L1207830-05A	Vial HCl preserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1207830
Project Number:	08.8696	**Report Date:**	05/11/12

GLOSSARY

Acronyms

EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
M	- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
NJ	- Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1207830
Project Number:	08.8696	**Report Date:**	05/11/12

Data Qualifiers

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1207830
Project Number: 08.8696 **Report Date:** 05/11/12

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised May 11, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D, Fecal Coliform-EC Medium 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterolert, E.Coli 9223.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics, Acid Extractables (Phenols), Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223D, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8082, 8330, 8151A, 8260B, 8270C, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014A, 9030B, 9040B, 9045C, 6010B, 7471A, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8330, 8151A, 8081A, 8082, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1,

SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 245.2, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6010C, 6020, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9030B, 9040B, SM426C, SM2120B, 2310B, 2320B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260B, 8270C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082, 8081A, 8081B, 8151A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 6010C, 7196A, 7471A, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040B, 9045C, 9050, 9065,1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3550B, 3580A, 3630C, 5030B, 5035, 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330, 8151A, 8015B, 8082, 8082A, 8081A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.2, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, 2540G, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, 245.2, SW-846 9040B, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ OQA-QAM-025 Rev.7, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C,6020, 6020A, 7196A, 3060A, 9010B, 9030B, 1010, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9014, 9012A, 9040B, 9045C, 9050A, 9065. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3630C, 5030B, 5035L, 5035H, NJ OQA-QAM-025 Rev.7, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 624, 8260B, 8270C, 8270D, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012A, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C, 3546, 3580, 3580A, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. Organic Parameters: MA-EPH, MA-VPH.

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 1312, 3005A, 200.7, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3050B, 3060A, 6010B, 6010C, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065, SM 4500NH3-H. Organic Parameters: 3540C, 3546, 3580A, 3630C, 5035, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260B, 8270C, 8270D, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NY-DOH.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476-09-1. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 3005A,3015,1312,6010B,6010C,SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X. Organic Parameters: EPA 8260B)

Solid & Hazardous Waste (Inorganic Parameters: EPA 3050B, 1311, 1312, 6010B, 6010C, 9030B, 9010B, 9012A, 9014. Organic Parameters: EPA 5035, 5030B, 8260B, 8015B, 8015C.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix, SO4 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/2/12

ALPHA Job #: L1207830

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #: 08.8696

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

Client Information

Client: CT Male Associates, PC

Address: 50 Centruy Hill Drive

Latham, NY 12110

Phone: 518.786.7400

Fax: 518.786.7299

Email: k.moline@ctmale.com

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes	☒ No	Are MCP Analytical Methods Required?
☐ Yes	☒ No	Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	TOTAL # BOTTLES
07830. 1	MW-26	5/2/12	1135	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		15
2	MW-27	↓	1230	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		15
3	MW-29	↓	1320	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		15
4	MW-28	5/2/12	1400	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		15
5	transport blank	5/2/12	—	GW	DS	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☒~~	~~☐~~		15
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		15
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		15
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		15
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		

Container Type	P	P	P	A	P	V	P	P	V	P	A	-
Preservative	C	E	A	D	A	D	D	A	B	A	A	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

FORM NO: 01-01(I) (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/2/12 1452	Paul Riley [signature]	5/2/12 1452
Paul Riley [signature]	5/2/12 2030	[signature]	5/2/12 2030
[signature]	5/2/12 2315	[signature]	5/2/12 2315

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

Serial_No:05111217:05

Page 63 of 63

ANALYTICAL REPORT

Lab Number:	L1318560
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	Not Specified
Report Date:	09/30/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1318560-01	MW-41	READING, NY	09/19/13 07:55
L1318560-02	MW-47	READING, NY	09/19/13 08:25
L1318560-03	MW-25	READING, NY	09/19/13 08:50

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318560
Report Date: 09/30/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT	**Lab Number:**	L1318560
Project Number:	Not Specified	**Report Date:**	09/30/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were received below the appropriate pH for the Total Cyanide analysis. The laboratory added additional NaOH to a pH >12.

Metals

The WG637715-4 MS recovery for magnesium (70%), performed on L1318560-01, does not apply because the sample concentration is greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative

Date: 09/30/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID:	L1318560-01	Date Collected:	09/19/13 07:55
Client ID:	MW-41	Date Received:	09/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/29/13 19:20		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318560

Project Number: Not Specified **Report Date:** 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-01 Date Collected: 09/19/13 07:55

Client ID: MW-41 Date Received: 09/19/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID:	L1318560-02	Date Collected:	09/19/13 08:25
Client ID:	MW-47	Date Received:	09/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/29/13 19:53		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318560

Project Number: Not Specified **Report Date:** 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-02 Date Collected: 09/19/13 08:25

Client ID: MW-47 Date Received: 09/19/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	87		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	107		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID:	L1318560-03	Date Collected:	09/19/13 08:50
Client ID:	MW-25	Date Received:	09/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/29/13 20:25		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318560

Project Number: Not Specified **Report Date:** 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-03 Date Collected: 09/19/13 08:50

Client ID: MW-25 Date Received: 09/19/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/29/13 18:47
Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG639968-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/29/13 18:47
Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG639968-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG639968-1 WG639968-2								
Methylene chloride	100		98		70-130	2		20
1,1-Dichloroethane	98		96		70-130	2		20
Chloroform	100		100		70-130	0		20
2-Chloroethylvinyl ether	88		87		70-130	1		20
Carbon tetrachloride	87		88		63-132	1		20
1,2-Dichloropropane	108		111		70-130	3		20
Dibromochloromethane	85		85		63-130	0		20
1,1,2-Trichloroethane	97		101		70-130	4		20
Tetrachloroethene	85		86		70-130	1		20
Chlorobenzene	91		91		75-130	0		20
Trichlorofluoromethane	92		94		62-150	2		20
1,2-Dichloroethane	108		110		70-130	2		20
1,1,1-Trichloroethane	97		98		67-130	1		20
Bromodichloromethane	102		104		67-130	2		20
trans-1,3-Dichloropropene	92		94		70-130	2		20
cis-1,3-Dichloropropene	107		107		70-130	0		20
1,1-Dichloropropene	93		97		70-130	4		20
Bromoform	92		91		54-136	1		20
1,1,2,2-Tetrachloroethane	102		100		67-130	2		20
Benzene	104		105		70-130	1		20
Toluene	90		91		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG639968-1 WG639968-2								
Ethylbenzene	89		88		70-130	1		20
Chloromethane	90		98		64-130	9		20
Bromomethane	62		68		39-139	9		20
Vinyl chloride	100		106		55-140	6		20
Chloroethane	98		90		55-138	9		20
1,1-Dichloroethene	93		95		61-145	2		20
trans-1,2-Dichloroethene	98		101		70-130	3		20
Trichloroethene	97		101		70-130	4		20
1,2-Dichlorobenzene	88		87		70-130	1		20
1,3-Dichlorobenzene	85		87		70-130	2		20
1,4-Dichlorobenzene	84		84		70-130	0		20
Methyl tert butyl ether	116		120		63-130	3		20
p/m-Xylene	88		90		70-130	2		20
o-Xylene	91		91		70-130	0		20
cis-1,2-Dichloroethene	95		97		70-130	2		20
Dibromomethane	116		116		70-130	0		20
1,2,3-Trichloropropane	98		93		64-130	5		20
Acrylonitrile	113		117		70-130	3		20
Isopropyl Ether	98		99		70-130	1		20
tert-Butyl Alcohol	126		122		70-130	3		20
Styrene	95		94		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG639968-1 WG639968-2								
Dichlorodifluoromethane	93		87		36-147	7		20
Acetone	132		**159**	Q	58-148	19		20
Carbon disulfide	91		92		51-130	1		20
2-Butanone	130		**144**	Q	63-138	10		20
Vinyl acetate	105		106		70-130	1		20
4-Methyl-2-pentanone	**136**	Q	**150**	Q	59-130	10		20
2-Hexanone	114		123		57-130	8		20
Acrolein	**244**	Q	**250**	Q	40-160	2		20
Bromochloromethane	114		115		70-130	1		20
2,2-Dichloropropane	93		92		63-133	1		20
1,2-Dibromoethane	104		101		70-130	3		20
1,3-Dichloropropane	102		103		70-130	1		20
1,1,1,2-Tetrachloroethane	90		89		64-130	1		20
Bromobenzene	85		85		70-130	0		20
n-Butylbenzene	78		77		53-136	1		20
sec-Butylbenzene	75		74		70-130	1		20
tert-Butylbenzene	78		78		70-130	0		20
o-Chlorotoluene	81		80		70-130	1		20
p-Chlorotoluene	83		82		70-130	1		20
1,2-Dibromo-3-chloropropane	84		86		41-144	2		20
Hexachlorobutadiene	82		80		63-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG639968-1 WG639968-2								
Isopropylbenzene	78		76		70-130	3		20
p-Isopropyltoluene	78		78		70-130	0		20
Naphthalene	89		90		70-130	1		20
n-Propylbenzene	78		77		69-130	1		20
1,2,3-Trichlorobenzene	89		90		70-130	1		20
1,2,4-Trichlorobenzene	85		84		70-130	1		20
1,3,5-Trimethylbenzene	81		79		64-130	3		20
1,2,4-Trimethylbenzene	82		82		70-130	0		20
Methyl Acetate	125		124		70-130	1		20
Ethyl Acetate	127		130		70-130	2		20
Cyclohexane	89		90		70-130	1		20
Ethyl-Tert-Butyl-Ether	104		107		70-130	3		20
Tertiary-Amyl Methyl Ether	123		125		66-130	2		20
1,4-Dioxane	108		148		56-162	**31**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	90		90		70-130	0		20
1,4-Diethylbenzene	78		78		70-130	0		20
4-Ethyltoluene	82		79		70-130	4		20
1,2,4,5-Tetramethylbenzene	82		82		70-130	0		20
Ethyl ether	119		124		59-134	4		20
trans-1,4-Dichloro-2-butene	95		91		70-130	4		20
Iodomethane	**31**	Q	**32**	Q	70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG639968-1 WG639968-2								
Methyl cyclohexane	83		85		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	92		91		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	102		101		70-130

METALS

Project Name:	US SALT	**Lab Number:**	L1318560
Project Number:	Not Specified	**Report Date:**	09/30/13

SAMPLE RESULTS

Lab ID:	L1318560-01	Date Collected:	09/19/13 07:55
Client ID:	MW-41	Date Received:	09/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	1.71		mg/l	0.100	0.0200	10	09/20/13 10:03	09/25/13 04:42	EPA 3005A	1,6020A	BM
Antimony, Total	0.00037	J	mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00253		mg/l	0.00050	0.00020	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Barium, Total	0.04001		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Boron, Total	0.107		mg/l	0.0300	0.0070	1	09/20/13 10:03	09/20/13 16:01	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Calcium, Total	49.		mg/l	0.10	0.030	1	09/20/13 10:03	09/20/13 16:01	EPA 3005A	1,6010C	TT
Chromium, Total	0.00392		mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00199		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Copper, Total	0.00440		mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Iron, Total	3.33		mg/l	0.0500	0.0130	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Lead, Total	0.00172		mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Magnesium, Total	60.		mg/l	0.10	0.010	1	09/20/13 10:03	09/20/13 16:01	EPA 3005A	1,6010C	TT
Manganese, Total	0.6190		mg/l	0.00500	0.00100	10	09/20/13 10:03	09/25/13 04:42	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/25/13 08:20	09/25/13 15:55	EPA 7470A	1,7470A	DR
Nickel, Total	0.00543		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Potassium, Total	8.82		mg/l	0.100	0.0270	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Selenium, Total	0.00046	J	mg/l	0.00500	0.00030	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Sodium, Total	22.6		mg/l	0.100	0.0150	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Thallium, Total	0.00005	J	mg/l	0.00050	0.00003	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00288	J	mg/l	0.00500	0.00010	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Zinc, Total	0.02136		mg/l	0.01000	0.00120	1	09/20/13 10:03	09/25/13 05:19	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	370		mg/l	0.66	NA	1	09/20/13 10:03	09/20/13 16:01	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-02
Client ID: MW-47
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/19/13 08:25
Date Received: 09/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0338		mg/l	0.0100	0.00200	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Antimony, Total	0.00067	J	mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00173		mg/l	0.00050	0.00020	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Barium, Total	0.08282		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Boron, Total	0.239		mg/l	0.0300	0.0070	1	09/20/13 10:03	09/20/13 16:20	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Calcium, Total	120		mg/l	0.10	0.030	1	09/20/13 10:03	09/20/13 16:20	EPA 3005A	1,6010C	TT
Chromium, Total	0.00092	J	mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00182		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Copper, Total	0.00058	J	mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Iron, Total	0.505		mg/l	0.0500	0.0130	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Magnesium, Total	46.		mg/l	0.10	0.010	1	09/20/13 10:03	09/20/13 16:20	EPA 3005A	1,6010C	TT
Manganese, Total	0.4412		mg/l	0.00500	0.00100	10	09/20/13 10:03	09/25/13 05:07	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/25/13 08:20	09/25/13 15:57	EPA 7470A	1,7470A	DR
Nickel, Total	0.00746		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Potassium, Total	5.58		mg/l	0.100	0.0270	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Selenium, Total	0.00082	J	mg/l	0.00500	0.00030	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Sodium, Total	28.3		mg/l	0.100	0.0150	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Thallium, Total	0.00003	J	mg/l	0.00050	0.00003	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00033	J	mg/l	0.00500	0.00010	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Zinc, Total	0.01158		mg/l	0.01000	0.00120	1	09/20/13 10:03	09/25/13 05:32	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	480		mg/l	0.66	NA	1	09/20/13 10:03	09/20/13 16:20	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-03
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/19/13 08:50
Date Received: 09/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.137		mg/l	0.0100	0.00200	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Antimony, Total	0.00011	J	mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00335		mg/l	0.00050	0.00020	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Barium, Total	0.05430		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Boron, Total	0.250		mg/l	0.0300	0.0070	1	09/20/13 10:03	09/20/13 16:24	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Calcium, Total	130		mg/l	0.10	0.030	1	09/20/13 10:03	09/20/13 16:24	EPA 3005A	1,6010C	TT
Chromium, Total	0.00102		mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00046	J	mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Copper, Total	0.00068	J	mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Iron, Total	1.16		mg/l	0.0500	0.0130	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Magnesium, Total	50.		mg/l	0.10	0.010	1	09/20/13 10:03	09/20/13 16:24	EPA 3005A	1,6010C	TT
Manganese, Total	0.3036		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/25/13 08:20	09/25/13 15:59	EPA 7470A	1,7470A	DR
Nickel, Total	0.00142		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Potassium, Total	5.12		mg/l	0.100	0.0270	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Selenium, Total	0.00078	J	mg/l	0.00500	0.00030	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Sodium, Total	33.9		mg/l	0.100	0.0150	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Thallium, Total	0.00004	J	mg/l	0.00050	0.00003	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00031	J	mg/l	0.00500	0.00010	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Zinc, Total	0.01257		mg/l	0.01000	0.00120	1	09/20/13 10:03	09/25/13 05:57	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	540		mg/l	0.66	NA	1	09/20/13 10:03	09/20/13 16:24	EPA 3005A	1,6010C	TT

Project Name: US SALT **Lab Number:** L1318560

Project Number: Not Specified **Report Date:** 09/30/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG637713-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Chromium, Total	0.00075	J	mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Manganese, Total	0.00021	J	mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Nickel, Total	0.00018	J	mg/l	0.00050	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Sodium, Total	ND		mg/l	0.100	0.0150	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	09/20/13 10:03	09/25/13 04:17	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG637715-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	09/20/13 10:03	09/20/13 15:46	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	09/20/13 10:03	09/20/13 15:46	1,6010C	TT
Magnesium, Total	ND		mg/l	0.10	0.010	1	09/20/13 10:03	09/20/13 15:46	1,6010C	TT

Project Name: US SALT **Lab Number:** L1318560

Project Number: Not Specified **Report Date:** 09/30/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-03 Batch: WG637715-1										
Hardness	ND		mg/l	0.66	NA	1	09/20/13 10:03	09/20/13 15:46	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-03 Batch: WG638822-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/25/13 08:20	09/25/13 15:09	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG637713-2								
Aluminum, Total	106		-		80-120	-		
Antimony, Total	89		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	96		-		80-120	-		
Beryllium, Total	96		-		80-120	-		
Cadmium, Total	110		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Cobalt, Total	105		-		80-120	-		
Copper, Total	106		-		80-120	-		
Iron, Total	113		-		80-120	-		
Lead, Total	105		-		80-120	-		
Manganese, Total	104		-		80-120	-		
Nickel, Total	106		-		80-120	-		
Potassium, Total	108		-		80-120	-		
Selenium, Total	118		-		80-120	-		
Silver, Total	95		-		80-120	-		
Sodium, Total	105		-		80-120	-		
Thallium, Total	98		-		80-120	-		
Vanadium, Total	100		-		80-120	-		
Zinc, Total	113		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG637715-2					
Boron, Total	109	-	80-120	-	
Calcium, Total	98	-	80-120	-	
Magnesium, Total	98	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 Batch: WG637715-2					
Hardness	98	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-03 Batch: WG638822-2					
Mercury, Total	104	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637713-4 QC Sample: L1318560-01 Client ID: MW-41												
Aluminum, Total	1.71	2	3.88	108		-	-		80-120	-		20
Antimony, Total	0.00037J	0.5	0.4522	90		-	-		80-120	-		20
Arsenic, Total	0.00253	0.12	0.1247	104		-	-		80-120	-		20
Barium, Total	0.04001	2	1.923	94		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.04807	96		-	-		80-120	-		20
Cadmium, Total	0.00007J	0.051	0.05300	104		-	-		80-120	-		20
Chromium, Total	0.00392	0.2	0.1992	100		-	-		80-120	-		20
Cobalt, Total	0.00199	0.5	0.5039	101		-	-		80-120	-		20
Copper, Total	0.00440	0.25	0.2576	103		-	-		80-120	-		20
Iron, Total	3.33	1	4.67	96		-	-		80-120	-		20
Lead, Total	0.00172	0.51	0.5243	103		-	-		80-120	-		20
Manganese, Total	0.6190	0.5	1.134	103		-	-		80-120	-		20
Nickel, Total	0.00543	0.5	0.5087	100		-	-		80-120	-		20
Potassium, Total	8.82	10	19.8	102		-	-		80-120	-		20
Selenium, Total	0.00046J	0.12	0.119	99		-	-		80-120	-		20
Silver, Total	ND	0.05	0.04625	92		-	-		80-120	-		20
Sodium, Total	22.6	10	33.8	90		-	-		80-120	-		20
Thallium, Total	0.00005J	0.12	0.1161	97		-	-		80-120	-		20
Vanadium, Total	0.00288J	0.5	0.4837	97		-	-		80-120	-		20
Zinc, Total	0.02136	0.5	0.5527	110		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637715-4 QC Sample: L1318560-01 Client ID: MW-41										
Boron, Total	0.107	1	1.22	111		-	-	75-125	-	20
Calcium, Total	49.	10	58	90		-	-	75-125	-	20
Magnesium, Total	60.	10	67	**70**	Q	-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637715-4 QC Sample: L1318560-01 Client ID: MW-41										
Hardness	370	66.2	420	76		-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638822-4 QC Sample: L1318395-05 Client ID: MS Sample										
Mercury, Total	ND	0.005	0.00402	80		-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637713-3 QC Sample: L1318560-01 Client ID: MW-41						
Aluminum, Total	1.71	1.86	mg/l	8		20
Manganese, Total	0.6190	0.6016	mg/l	3		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637713-3 QC Sample: L1318560-01 Client ID: MW-41					
Antimony, Total	0.00037J	0.00034J	mg/l	NC	20
Arsenic, Total	0.00253	0.00265	mg/l	5	20
Barium, Total	0.04001	0.04230	mg/l	6	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	0.00007J	0.00007J	mg/l	NC	20
Chromium, Total	0.00392	0.00435	mg/l	10	20
Cobalt, Total	0.00199	0.00225	mg/l	12	20
Copper, Total	0.00440	0.00490	mg/l	11	20
Iron, Total	3.33	3.96	mg/l	17	20
Lead, Total	0.00172	0.00190	mg/l	10	20
Nickel, Total	0.00543	0.00605	mg/l	11	20
Potassium, Total	8.82	9.27	mg/l	5	20
Selenium, Total	0.00046J	0.00042J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	22.6	23.8	mg/l	5	20
Thallium, Total	0.00005J	0.00004J	mg/l	NC	20
Vanadium, Total	0.00288J	0.00335J	mg/l	NC	20
Zinc, Total	0.02136	0.02206	mg/l	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637715-3 QC Sample: L1318560-01 Client ID: MW-41					
Boron, Total	0.107	0.110	mg/l	3	20
Calcium, Total	49.	51.	mg/l	4	20
Magnesium, Total	60.	62.	mg/l	3	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637715-3 QC Sample: L1318560-01 Client ID: MW-41					
Hardness	370	380	mg/l	3	20
Total Metals - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638822-3 QC Sample: L1318395-05 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-01
Client ID: MW-41
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/19/13 07:55
Date Received: 09/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	09/20/13 02:55	30,2120B	JT
Alkalinity, Total	390.		mg CaCO3/L	2.00	NA	1	-	09/25/13 08:14	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 23:11	30,2520B	EL
Solids, Total Dissolved	500		mg/l	10	4.4	1	-	09/25/13 11:35	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/22/13 14:20	09/24/13 12:52	1,9010C/9012A	JO
Nitrogen, Ammonia	0.053	J	mg/l	0.075	0.031	1	09/21/13 13:45	09/23/13 21:42	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/20/13 04:30	44,353.2	DB
Nitrogen, Total Kjeldahl	0.50		mg/l	0.30	0.060	1	09/23/13 19:10	09/25/13 20:46	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	27.		mg/l	10	3.5	1	09/24/13 14:50	09/24/13 18:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/20/13 18:20	09/25/13 13:35	30,5210B	SE
Total Organic Carbon	2.43		mg/l	1.00	0.052	2	-	09/25/13 07:02	30,5310C	DW
Phenolics, Total	0.010	J	mg/l	0.030	0.009	1	09/25/13 11:30	09/25/13 13:35	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/20/13 01:55	09/20/13 02:30	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/20/13 00:30	44,300.0	AU
Chloride	15.2		mg/l	0.500	0.168	1	-	09/20/13 00:30	44,300.0	AU
Sulfate	75.9		mg/l	1.00	0.229	1	-	09/20/13 00:30	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-02
Client ID: MW-47
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/19/13 08:25
Date Received: 09/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	7.0		A.P.C.U.	5.0	5.0	1	-	09/20/13 02:55	30,2120B	JT
Alkalinity, Total	377.		mg CaCO3/L	2.00	NA	1	-	09/25/13 08:14	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 23:11	30,2520B	EL
Solids, Total Dissolved	620		mg/l	10	4.4	1	-	09/25/13 11:35	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/22/13 14:20	09/24/13 12:52	1,9010C/9012A	JO
Nitrogen, Ammonia	0.433		mg/l	0.075	0.031	1	09/21/13 13:45	09/23/13 21:44	44,350.1	AT
Nitrogen, Nitrate	0.018	J	mg/l	0.10	0.015	1	-	09/20/13 03:35	44,353.2	DB
Nitrogen, Total Kjeldahl	0.60		mg/l	0.30	0.060	1	09/23/13 19:10	09/25/13 20:46	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/24/13 14:50	09/24/13 18:04	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/20/13 18:20	09/25/13 13:35	30,5210B	SE
Total Organic Carbon	1.97		mg/l	1.00	0.052	2	-	09/25/13 07:02	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/25/13 11:30	09/25/13 13:35	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/20/13 01:55	09/20/13 02:30	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.113		mg/l	0.050	0.010	1	-	09/20/13 00:42	44,300.0	AU
Chloride	97.8		mg/l	25.0	8.40	50	-	09/20/13 03:42	44,300.0	AU
Sulfate	84.4		mg/l	1.00	0.229	1	-	09/20/13 00:42	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

SAMPLE RESULTS

Lab ID: L1318560-03
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/19/13 08:50
Date Received: 09/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	8.0		A.P.C.U.	5.0	5.0	1	-	09/20/13 02:55	30,2120B	JT
Alkalinity, Total	377.		mg CaCO3/L	2.00	NA	1	-	09/25/13 08:14	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 23:11	30,2520B	EL
Solids, Total Dissolved	640		mg/l	10	4.4	1	-	09/25/13 11:35	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	09/22/13 14:20	09/24/13 12:53	1,9010C/9012A	JO
Nitrogen, Ammonia	0.329		mg/l	0.075	0.031	1	09/21/13 13:45	09/23/13 21:48	44,350.1	AT
Nitrogen, Nitrate	0.046	J	mg/l	0.10	0.015	1	-	09/20/13 03:36	44,353.2	DB
Nitrogen, Total Kjeldahl	0.45		mg/l	0.30	0.060	1	09/23/13 19:10	09/25/13 20:50	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	5.5	J	mg/l	10	3.5	1	09/24/13 14:50	09/24/13 18:04	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/20/13 18:20	09/25/13 13:35	30,5210B	SE
Total Organic Carbon	1.89		mg/l	1.00	0.052	2	-	09/25/13 07:02	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/25/13 11:30	09/25/13 16:39	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/20/13 01:55	09/20/13 02:30	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.119		mg/l	0.050	0.010	1	-	09/20/13 00:54	44,300.0	AU
Chloride	122.		mg/l	25.0	8.40	50	-	09/20/13 03:54	44,300.0	AU
Sulfate	94.8		mg/l	1.00	0.229	1	-	09/20/13 00:54	44,300.0	AU

Project Name: US SALT **Lab Number:** L1318560

Project Number: Not Specified **Report Date:** 09/30/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG637614-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/20/13 02:54	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG637642-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/20/13 01:55	09/20/13 02:27	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG637834-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	09/20/13 18:20	09/25/13 13:35	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638025-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.031	1	09/21/13 13:45	09/23/13 21:25	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638124-1										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	09/22/13 14:20	09/24/13 12:21	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638413-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.020	1	09/23/13 19:10	09/25/13 20:41	4,351.3/.1 (M)	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-03 Batch: WG638415-1										
Bromide	ND		mg/l	0.050	0.010	1	-	09/19/13 17:42	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	09/19/13 17:42	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	09/19/13 17:42	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638648-1										
Chemical Oxygen Demand	5.5	J	mg/l	10	3.5	1	09/24/13 14:50	09/24/13 17:45	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638823-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	09/25/13 11:35	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638890-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/25/13 11:30	09/25/13 13:32	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638918-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/25/13 08:14	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG638945-1										
Total Organic Carbon	0.050	J	mg/l	0.500	0.026	1	-	09/25/13 07:02	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG637614-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG637616-1								
SALINITY	96		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG637642-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG637834-2								
BOD, 5 day	115		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638025-2								
Nitrogen, Ammonia	93		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638124-4 WG638124-5								
Cyanide, Total	98		97		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638413-2								
Nitrogen, Total Kjeldahl	98		-		78-122	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 Batch: WG638415-2					
Bromide	96	-	90-110	-	
Chloride	106	-	90-110	-	
Sulfate	107	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638648-2					
Chemical Oxygen Demand	98	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638823-2					
Solids, Total Dissolved	86	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638890-2					
Phenolics, Total	108	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638918-2					
Alkalinity, Total	106	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG638945-2					
Total Organic Carbon	100	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637614-4 QC Sample: L1318466-01 Client ID: MS Sample												
Nitrogen, Nitrate	3.9	4	7.6	92		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637642-4 QC Sample: L1318560-02 Client ID: MW-47												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637834-4 QC Sample: L1318593-02 Client ID: MS Sample												
BOD, 5 day	9.0	100	170	**165**	Q	-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638025-4 QC Sample: L1318560-01 Client ID: MW-41												
Nitrogen, Ammonia	0.053J	4	3.77	94		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638124-3 WG638124-2 QC Sample: L1318440-02 Client ID: MS Sample												
Cyanide, Total	0.002J	0.2	0.197	98		0.195	98		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638413-4 QC Sample: L1318560-03 Client ID: MW-25												
Nitrogen, Total Kjeldahl	0.45	8	8.0	94		-	-		77-111	-		24
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638415-3 QC Sample: L1318439-04 Client ID: MS Sample												
Bromide	ND	0.4	0.343	86		-	-		77-119	-		20
Chloride	13.8	4	17.4	90		-	-		40-151	-		18
Sulfate	71.8	8	77.3	69		-	-		60-140	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638648-3 QC Sample: L1318560-03 Client ID: MW-25												
Chemical Oxygen Demand	5.5J	47.6	51	107		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638890-4 QC Sample: L1318556-02 Client ID: MS Sample									
Phenolics, Total	ND	0.8	0.81	101	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638918-3 QC Sample: L1318789-03 Client ID: MS Sample									
Alkalinity, Total	54.8	100	156	101	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638945-4 QC Sample: L1317112-39 Client ID: MS Sample									
Total Organic Carbon	4.06	20	25.9	109	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637614-3 QC Sample: L1318466-01 Client ID: DUP Sample						
Nitrogen, Nitrate	3.9	3.9	mg/l	0		6
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637616-2 QC Sample: L1318560-01 Client ID: MW-41						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637642-3 QC Sample: L1318560-02 Client ID: MW-47						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637653-1 QC Sample: L1318560-03 Client ID: MW-25						
Color, Apparent	8.0	8.0	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG637834-3 QC Sample: L1318593-03 Client ID: DUP Sample						
BOD, 5 day	66.	110	mg/l	**50**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638025-3 QC Sample: L1318560-01 Client ID: MW-41						
Nitrogen, Ammonia	0.053J	0.071J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638413-3 QC Sample: L1318560-03 Client ID: MW-25						
Nitrogen, Total Kjeldahl	0.45	0.51	mg/l	13		24
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638415-4 QC Sample: L1318439-04 Client ID: DUP Sample						
Bromide	ND	ND	mg/l	NC		20
Chloride	13.8	13.8	mg/l	0		18
Sulfate	71.8	71.8	mg/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638648-4 QC Sample: L1318560-03 Client ID: MW-25					
Chemical Oxygen Demand	5.5J	9.8J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638823-3 QC Sample: L1318556-06 Client ID: DUP Sample					
Solids, Total Dissolved	640	640	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638890-3 QC Sample: L1318556-01 Client ID: DUP Sample					
Phenolics, Total	0.020J	ND	mg/l	NC	12
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638918-4 QC Sample: L1318789-03 Client ID: DUP Sample					
Alkalinity, Total	54.8	54.1	mg CaCO3/L	1	10
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG638945-3 QC Sample: L1318233-01 Client ID: DUP Sample					
Total Organic Carbon	0.420J	0.550	mg/l	NC	20

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318560-01A	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-01B	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-01C	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-01D	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318560-01E	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318560-01F	Amber 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L1318560-01G	Plastic 1000ml unpreserved	A	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318560-01H	Glass 250ml unpreserved	A	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318560-01I	Plastic 500ml unpreserved	A	7	5	Y	Absent	BOD-5210(2)
L1318560-01J	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318560-01K	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318560-01L	Plastic 250ml unpreserved	A	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318560-01M	Plastic 250ml NaOH preserved	A	>12	5	Y	Absent	TCN-9010(14)
L1318560-01N	Plastic 250ml unpreserved	A	N/A	5	Y	Absent	ALK-T-2320(14)
L1318560-02A	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-02B	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-02C	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-02D	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318560-02E	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318560-02F	Amber 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L1318560-02G	Plastic 1000ml unpreserved	A	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318560-02H	Glass 250ml unpreserved	A	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318560-02I	Plastic 500ml unpreserved	A	7	5	Y	Absent	BOD-5210(2)
L1318560-02J	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318560-02K	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318560-02L	Plastic 250ml unpreserved	A	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318560-02M	Plastic 250ml NaOH preserved	A	>12	5	Y	Absent	TCN-9010(14)
L1318560-02N	Plastic 250ml unpreserved	A	N/A	5	Y	Absent	ALK-T-2320(14)
L1318560-03A	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-03B	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-03C	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318560-03D	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318560-03E	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318560-03F	Amber 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L1318560-03G	Plastic 1000ml unpreserved	A	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318560-03H	Glass 250ml unpreserved	A	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318560-03I	Plastic 500ml unpreserved	A	7	5	Y	Absent	BOD-5210(2)
L1318560-03J	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318560-03K	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318560
Report Date: 09/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318560-03L	Plastic 250ml unpreserved	A	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318560-03M	Plastic 250ml NaOH preserved	A	>12	5	Y	Absent	TCN-9010(14)
L1318560-03N	Plastic 250ml unpreserved	A	N/A	5	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1318560
Project Number:	Not Specified	**Report Date:**	09/30/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1318560
Project Number:	Not Specified	**Report Date:**	09/30/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1318560
Project Number: Not Specified **Report Date:** 09/30/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/19/13

ALPHA Job #: L1318560

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #:

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

Client Information

Client: CT Male Associates

Address: 50 Centruy Hill Drive

Latham, NY 12110

Phone: 518.786.7400

Fax: 518.786.7299

Email: k.moline@ctmale.com

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/26/13 Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 03.8696

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes	☒ No	Are MCP Analytical Methods Required?
☐ Yes	☒ No	Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NYCRR Part 360 - Baseline Parameters
Metals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	Total # Bottles
1856001	MW-41	9/19/13	0755	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
12	MW-47	9/19/13	0825	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
13	MW-25	9/19/13	0850	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14

Container Type	P	P	P	A	P	V	P	P	V	P	A	-	
Preservative	C	E	A	D	A	D	D	A	B	A	A	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	9/19/13 1400		9/19/13 1400
	9/19/13 1830		9/19/13 1830
	9/19/13 2115	Richard Scott	9/19/13 2115

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

FORM NO: 01-01(I) (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L1318439
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	Not Specified
Report Date:	09/26/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1318439-01	MW-43	READING, NY	09/18/13 12:20
L1318439-02	MW-32	READING, NY	09/18/13 13:00
L1318439-03	MW-33	READING, NY	09/18/13 13:30
L1318439-04	MW-42	READING, NY	09/18/13 15:05
L1318439-05	MW-46	READING, NY	09/18/13 15:30
L1318439-06	MW-24	READING, NY	09/18/13 16:00
L1318439-07	MW-31	READING, NY	09/18/13 16:40

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1318439
Project Number: Not Specified **Report Date:** 09/26/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were received below the appropriate pH for the Total Cyanide analysis. The laboratory added additional NaOH to a pH >12.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 09/26/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318439-01	Date Collected:	09/18/13 12:20
Client ID:	MW-43	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/26/13 09:02		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.27	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-01 Date Collected: 09/18/13 12:20

Client ID: MW-43 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	20		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	16		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318439-02	Date Collected:	09/18/13 13:00
Client ID:	MW-32	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/26/13 09:33		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-02 Date Collected: 09/18/13 13:00

Client ID: MW-32 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.5	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318439-03	Date Collected:	09/18/13 13:30
Client ID:	MW-33	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/26/13 10:05		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-03 Date Collected: 09/18/13 13:30

Client ID: MW-33 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.6	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318439-04	Date Collected:	09/18/13 15:05
Client ID:	MW-42	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/26/13 10:36		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-04 Date Collected: 09/18/13 15:05

Client ID: MW-42 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.8	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318439-05	Date Collected:	09/18/13 15:30
Client ID:	MW-46	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/26/13 11:08		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-05 Date Collected: 09/18/13 15:30

Client ID: MW-46 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.8	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318439-06	Date Collected:	09/18/13 16:00
Client ID:	MW-24	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/26/13 11:40		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-06 Date Collected: 09/18/13 16:00

Client ID: MW-24 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.1	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318439-07	Date Collected:	09/18/13 16:40
Client ID:	MW-31	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/26/13 12:12		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.38	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-07 Date Collected: 09/18/13 16:40

Client ID: MW-31 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.3	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/26/13 05:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG639178-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/26/13 05:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG639178-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG639178-1 WG639178-2								
Methylene chloride	83		80		70-130	4		20
1,1-Dichloroethane	93		90		70-130	3		20
Chloroform	96		94		70-130	2		20
Carbon tetrachloride	110		109		63-132	1		20
1,2-Dichloropropane	87		85		70-130	2		20
Dibromochloromethane	96		94		63-130	2		20
1,1,2-Trichloroethane	93		89		70-130	4		20
Tetrachloroethene	103		99		70-130	4		20
Chlorobenzene	95		93		75-130	2		20
Trichlorofluoromethane	108		106		62-150	2		20
1,2-Dichloroethane	97		94		70-130	3		20
1,1,1-Trichloroethane	97		96		67-130	1		20
Bromodichloromethane	94		93		67-130	1		20
trans-1,3-Dichloropropene	82		80		70-130	2		20
cis-1,3-Dichloropropene	84		82		70-130	2		20
1,1-Dichloropropene	98		94		70-130	4		20
Bromoform	85		86		54-136	1		20
1,1,2,2-Tetrachloroethane	87		88		67-130	1		20
Benzene	92		89		70-130	3		20
Toluene	91		88		70-130	3		20
Ethylbenzene	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG639178-1 WG639178-2								
Chloromethane	88		84		64-130	5		20
Bromomethane	88		84		39-139	5		20
Vinyl chloride	102		98		55-140	4		20
Chloroethane	96		94		55-138	2		20
1,1-Dichloroethene	98		94		61-145	4		20
trans-1,2-Dichloroethene	94		92		70-130	2		20
Trichloroethene	96		92		70-130	4		20
1,2-Dichlorobenzene	94		92		70-130	2		20
1,3-Dichlorobenzene	94		94		70-130	0		20
1,4-Dichlorobenzene	94		92		70-130	2		20
Methyl tert butyl ether	80		78		63-130	3		20
p/m-Xylene	97		94		70-130	3		20
o-Xylene	97		94		70-130	3		20
cis-1,2-Dichloroethene	92		90		70-130	2		20
Dibromomethane	93		92		70-130	1		20
1,2,3-Trichloropropane	86		86		64-130	0		20
Acrylonitrile	82		81		70-130	1		20
Isopropyl Ether	87		85		70-130	2		20
tert-Butyl Alcohol	**59**	Q	**58**	Q	70-130	2		20
Styrene	96		94		70-130	2		20
Dichlorodifluoromethane	113		112		36-147	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG639178-1 WG639178-2								
Acetone	121		129		58-148	6		20
Carbon disulfide	94		92		51-130	2		20
2-Butanone	111		115		63-138	4		20
Vinyl acetate	74		73		70-130	1		20
4-Methyl-2-pentanone	73		71		59-130	3		20
2-Hexanone	105		113		57-130	7		20
Acrolein	87		84		40-160	4		20
Bromochloromethane	93		91		70-130	2		20
2,2-Dichloropropane	83		81		63-133	2		20
1,2-Dibromoethane	91		91		70-130	0		20
1,3-Dichloropropane	89		88		70-130	1		20
1,1,1,2-Tetrachloroethane	92		91		64-130	1		20
Bromobenzene	94		94		70-130	0		20
n-Butylbenzene	102		101		53-136	1		20
sec-Butylbenzene	100		99		70-130	1		20
tert-Butylbenzene	98		98		70-130	0		20
o-Chlorotoluene	96		95		70-130	1		20
p-Chlorotoluene	95		93		70-130	2		20
1,2-Dibromo-3-chloropropane	83		81		41-144	2		20
Hexachlorobutadiene	106		106		63-130	0		20
Isopropylbenzene	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG639178-1 WG639178-2								
p-Isopropyltoluene	100		99		70-130	1		20
Naphthalene	81		80		70-130	1		20
n-Propylbenzene	100		99		69-130	1		20
1,2,3-Trichlorobenzene	94		91		70-130	3		20
1,2,4-Trichlorobenzene	94		94		70-130	0		20
1,3,5-Trimethylbenzene	98		97		64-130	1		20
1,2,4-Trimethylbenzene	96		95		70-130	1		20
Methyl Acetate	88		84		70-130	5		20
Ethyl Acetate	87		82		70-130	6		20
Cyclohexane	97		94		70-130	3		20
Ethyl-Tert-Butyl-Ether	80		78		70-130	3		20
Tertiary-Amyl Methyl Ether	76		74		66-130	3		20
1,4-Dioxane	93		99		56-162	6		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		100		70-130	3		20
1,4-Diethylbenzene	97		97		70-130	0		20
4-Ethyltoluene	98		97		70-130	1		20
1,2,4,5-Tetramethylbenzene	99		98		70-130	1		20
Ethyl ether	86		83		59-134	4		20
trans-1,4-Dichloro-2-butene	84		81		70-130	4		20
Iodomethane	84		82		70-130	2		20
Methyl cyclohexane	104		100		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG639178-1 WG639178-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		107		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	96		98		70-130
Dibromofluoromethane	106		104		70-130

METALS

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-01
Client ID: MW-43
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 12:20
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0460		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Antimony, Total	0.00024	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00697		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Barium, Total	0.03796		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Boron, Total	0.131		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 13:07	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00029		mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Calcium, Total	78.		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 13:07	EPA 3005A	1,6010C	TT
Chromium, Total	0.00113		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00089		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Copper, Total	0.00072	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Iron, Total	1.55		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Magnesium, Total	39.		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 13:07	EPA 3005A	1,6010C	TT
Manganese, Total	0.9887		mg/l	0.01000	0.00100	10	09/19/13 14:56	09/24/13 21:50	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:32	EPA 7470A	1,7470A	DR
Nickel, Total	0.00431		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Potassium, Total	11.7		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Selenium, Total	0.00063	J	mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Sodium, Total	44.6		mg/l	1.00	0.150	10	09/19/13 14:56	09/24/13 21:50	EPA 3005A	1,6020A	BM
Thallium, Total	0.00005	J	mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00024	J	mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Zinc, Total	0.01146		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 22:34	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	360		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 13:07	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-02
Client ID: MW-32
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 13:00
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.101		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00387		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Barium, Total	0.05279		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Boron, Total	0.127		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 13:10	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Calcium, Total	150		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 13:10	EPA 3005A	1,6010C	TT
Chromium, Total	0.00098	J	mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00024	J	mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Copper, Total	0.00084	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Iron, Total	2.20		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Magnesium, Total	62.		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 13:10	EPA 3005A	1,6010C	TT
Manganese, Total	0.3867		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:34	EPA 7470A	1,7470A	DR
Nickel, Total	0.00134		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Potassium, Total	4.03		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Selenium, Total	0.00089	J	mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Sodium, Total	33.7		mg/l	0.100	0.0150	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00016	J	mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Zinc, Total	0.01168		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 22:40	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	630		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 13:10	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-03
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 13:30
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.168		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00403		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Barium, Total	0.05435		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Boron, Total	0.131		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 13:14	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Calcium, Total	150		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 13:14	EPA 3005A	1,6010C	TT
Chromium, Total	0.00106		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00025	J	mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Copper, Total	0.00081	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Iron, Total	1.66		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Magnesium, Total	56.		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 13:14	EPA 3005A	1,6010C	TT
Manganese, Total	0.3714		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:36	EPA 7470A	1,7470A	DR
Nickel, Total	0.00123		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Potassium, Total	2.86		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Selenium, Total	0.00092	J	mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Sodium, Total	37.2		mg/l	0.100	0.0150	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00024	J	mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Zinc, Total	0.01357		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 22:46	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	600		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 13:14	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-04
Client ID: MW-42
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 15:05
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.194		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00093		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Barium, Total	0.04382		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Boron, Total	0.0377		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 13:18	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Calcium, Total	93.		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 13:18	EPA 3005A	1,6010C	TT
Chromium, Total	0.00108		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00077		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Copper, Total	0.00112		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Iron, Total	0.761		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Lead, Total	0.00037	J	mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Magnesium, Total	45.		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 13:18	EPA 3005A	1,6010C	TT
Manganese, Total	0.2286		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:41	EPA 7470A	1,7470A	DR
Nickel, Total	0.01567		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Potassium, Total	2.91		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Selenium, Total	0.00070	J	mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Sodium, Total	15.0		mg/l	0.100	0.0150	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00053	J	mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Zinc, Total	0.01408		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 22:52	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	420		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 13:18	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-05
Client ID: MW-46
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 15:30
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0520		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Antimony, Total	0.00031	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00219		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Barium, Total	0.08044		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Boron, Total	0.215		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 13:22	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00005	J	mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Calcium, Total	120		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 13:22	EPA 3005A	1,6010C	TT
Chromium, Total	0.00092	J	mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00064		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Copper, Total	0.00073	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Iron, Total	0.850		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Magnesium, Total	47.		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 13:22	EPA 3005A	1,6010C	TT
Manganese, Total	0.3453		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:43	EPA 7470A	1,7470A	DR
Nickel, Total	0.00144		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Potassium, Total	5.34		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Selenium, Total	0.00081	J	mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Sodium, Total	49.1		mg/l	1.00	0.150	10	09/19/13 14:56	09/24/13 23:11	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00037	J	mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Zinc, Total	0.01366		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 22:58	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	510		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 13:22	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-06
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 16:00
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0227		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00054		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Barium, Total	0.1195		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Boron, Total	0.145		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 13:26	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Calcium, Total	48.		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 13:26	EPA 3005A	1,6010C	TT
Chromium, Total	0.00087	J	mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00011	J	mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Copper, Total	0.00054	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Iron, Total	1.02		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Magnesium, Total	35.		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 13:26	EPA 3005A	1,6010C	TT
Manganese, Total	0.06995		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 14:39	EPA 7470A	1,7470A	DR
Nickel, Total	0.00059		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Potassium, Total	33.2		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Selenium, Total	0.00031	J	mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Sodium, Total	27.0		mg/l	0.100	0.0150	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Zinc, Total	0.01076		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 23:05	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	260		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 13:26	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-07
Client ID: MW-31
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 16:40
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0307		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Antimony, Total	0.00047	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00159		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Barium, Total	0.05846		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Boron, Total	0.310		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 13:30	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00007	J	mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Calcium, Total	85.		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 13:30	EPA 3005A	1,6010C	TT
Chromium, Total	0.00089	J	mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00056		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Copper, Total	0.00088	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Iron, Total	0.341		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Magnesium, Total	47.		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 13:30	EPA 3005A	1,6010C	TT
Manganese, Total	0.1874		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 14:44	EPA 7470A	1,7470A	DR
Nickel, Total	0.00111		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Potassium, Total	34.1		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Selenium, Total	0.00080	J	mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Sodium, Total	28.5		mg/l	0.100	0.0150	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Thallium, Total	0.00008	J	mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00072	J	mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Zinc, Total	0.01369		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 23:42	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	400		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 13:30	EPA 3005A	1,6010C	TT

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-07 Batch: WG637487-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Chromium, Total	0.00071	J	mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Manganese, Total	0.00052	J	mg/l	0.00100	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Nickel, Total	0.00023	J	mg/l	0.00050	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Sodium, Total	0.0164	J	mg/l	0.100	0.0150	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Thallium, Total	0.00004	J	mg/l	0.00050	0.00003	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	09/19/13 14:56	09/24/13 21:12	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-07 Batch: WG637489-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	09/19/13 14:56	09/20/13 12:13	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	09/19/13 14:56	09/20/13 12:13	1,6010C	TT
Magnesium, Total	ND		mg/l	0.10	0.010	1	09/19/13 14:56	09/20/13 12:13	1,6010C	TT

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-07 Batch: WG637489-1										
Hardness	ND		mg/l	0.66	NA	1	09/19/13 14:56	09/20/13 12:13	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG638500-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 14:48	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 06-07 Batch: WG638501-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 14:35	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 Batch: WG637487-2								
Aluminum, Total	98		-		80-120	-		
Antimony, Total	88		-		80-120	-		
Arsenic, Total	103		-		80-120	-		
Barium, Total	93		-		80-120	-		
Beryllium, Total	96		-		80-120	-		
Cadmium, Total	103		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	103		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	100		-		80-120	-		
Manganese, Total	97		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	102		-		80-120	-		
Selenium, Total	107		-		80-120	-		
Silver, Total	93		-		80-120	-		
Sodium, Total	100		-		80-120	-		
Thallium, Total	94		-		80-120	-		
Vanadium, Total	95		-		80-120	-		
Zinc, Total	105		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 Batch: WG637489-2					
Boron, Total	109	-	80-120	-	
Calcium, Total	97	-	80-120	-	
Magnesium, Total	96	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-07 Batch: WG637489-2					
Hardness	97	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG638500-2					
Mercury, Total	97	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 06-07 Batch: WG638501-2					
Mercury, Total	98	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637487-3 WG637487-4 QC Sample: L1318238-18 Client ID: MS Sample												
Aluminum, Total	0.004J	2	1.96	98		1.98	99		80-120	1		20
Antimony, Total	ND	0.5	0.4956	99		0.4921	98		80-120	1		20
Arsenic, Total	0.0003J	0.12	0.1285	107		0.1286	107		80-120	0		20
Barium, Total	0.1459	2	2.024	94		2.012	93		80-120	1		20
Beryllium, Total	ND	0.05	0.05092	102		0.05122	102		80-120	1		20
Cadmium, Total	0.00010J	0.051	0.05367	105		0.05306	104		80-120	1		20
Chromium, Total	0.0009J	0.2	0.1947	97		0.1954	98		80-120	0		20
Cobalt, Total	0.0027	0.5	0.5043	100		0.5035	100		80-120	0		20
Copper, Total	0.0004J	0.25	0.2582	103		0.2594	104		80-120	0		20
Iron, Total	0.270	1	1.28	101		1.29	102		80-120	1		20
Lead, Total	ND	0.51	0.5140	101		0.5212	102		80-120	1		20
Manganese, Total	0.2416	0.5	0.7196	96		0.7308	98		80-120	2		20
Nickel, Total	0.0038	0.5	0.5073	101		0.5088	101		80-120	0		20
Potassium, Total	2.29	10	12.2	99		12.6	103		80-120	3		20
Selenium, Total	0.001J	0.12	0.128	107		0.130	108		80-120	2		20
Silver, Total	ND	0.05	0.04654	93		0.04600	92		80-120	1		20
Sodium, Total	30.0	10	40.1	101		41.0	110		80-120	2		20
Thallium, Total	ND	0.12	0.1131	94		0.1152	96		80-120	2		20
Vanadium, Total	ND	0.5	0.4777	96		0.4784	96		80-120	0		20
Zinc, Total	0.0050J	0.5	0.5355	107		0.5373	107		80-120	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637489-3 WG637489-4 QC Sample: L1318238-18 Client ID: MS Sample									
Boron, Total	0.013J	1	1.12	112	1.12	112	75-125	0	20
Calcium, Total	43.	10	51	80	53	100	75-125	4	20
Magnesium, Total	21.	10	30	90	30	90	75-125	0	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637489-3 WG637489-4 QC Sample: L1318238-18 Client ID: MS Sample									
Hardness	190	66.2	250	91	260	106	75-125	4	20
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG638500-4 QC Sample: L1318437-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00504	101	-	-	70-130	-	20
Total Metals - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG638501-4 QC Sample: L1318439-06 Client ID: MW-24									
Mercury, Total	ND	0.005	0.00561	112	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG638500-3 QC Sample: L1318437-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG638501-3 QC Sample: L1318439-06 Client ID: MW-24						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-01
Client ID: MW-43
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 12:20
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	18		A.P.C.U.	5.0	5.0	1	-	09/19/13 05:10	30,2120B	DE
Alkalinity, Total	751.		mg CaCO3/L	4.00	NA	2	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	550		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:39	1,9010C/9012A	JO
Nitrogen, Ammonia	0.071	J	mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:10	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 04:01	44,353.2	DB
Nitrogen, Total Kjeldahl	0.75		mg/l	0.30	0.060	1	09/20/13 13:50	09/23/13 20:49	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	120		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:29	44,410.4	TL
BOD, 5 day	62.		mg/l	10	NA	5	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	70.4		mg/l	10.0	0.520	20	-	09/23/13 07:25	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 19:49	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:46	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.142		mg/l	0.050	0.010	1	-	09/19/13 20:42	44,300.0	AU
Chloride	42.9		mg/l	0.500	0.168	1	-	09/19/13 20:42	44,300.0	AU
Sulfate	0.960	J	mg/l	1.00	0.229	1	-	09/19/13 20:42	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-02
Client ID: MW-32
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 13:00
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	18		A.P.C.U.	5.0	5.0	1	-	09/19/13 05:10	30,2120B	DE
Alkalinity, Total	372.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	780		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/20/13 10:00	09/20/13 14:59	1,9010C/9012A	JO
Nitrogen, Ammonia	0.235		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:10	44,350.1	AT
Nitrogen, Nitrate	0.040	J	mg/l	0.10	0.015	1	-	09/19/13 04:02	44,353.2	DB
Nitrogen, Total Kjeldahl	0.60		mg/l	0.30	0.060	1	09/20/13 13:50	09/23/13 20:54	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:31	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.07		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 19:48	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:47	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.113		mg/l	0.050	0.010	1	-	09/19/13 20:54	44,300.0	AU
Chloride	208.		mg/l	12.5	4.20	25	-	09/20/13 01:30	44,300.0	AU
Sulfate	97.0		mg/l	1.00	0.229	1	-	09/19/13 20:54	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-03
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 13:30
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	6.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 05:10	30,2120B	DE
Alkalinity, Total	355.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	770		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/20/13 10:00	09/20/13 15:00	1,9010C/9012A	JO
Nitrogen, Ammonia	0.213		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:11	44,350.1	AT
Nitrogen, Nitrate	0.028	J	mg/l	0.10	0.015	1	-	09/19/13 04:03	44,353.2	DB
Nitrogen, Total Kjeldahl	0.39		mg/l	0.30	0.060	1	09/20/13 13:50	09/23/13 20:55	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:31	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	1.88		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 19:49	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:47	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.118		mg/l	0.050	0.010	1	-	09/19/13 21:06	44,300.0	AU
Chloride	222.		mg/l	12.5	4.20	25	-	09/20/13 01:42	44,300.0	AU
Sulfate	83.4		mg/l	1.00	0.229	1	-	09/19/13 21:06	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-04
Client ID: MW-42
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 15:05
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	09/19/13 05:10	30,2120B	DE
Alkalinity, Total	390.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	510		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/20/13 10:00	09/20/13 15:01	1,9010C/9012A	JO
Nitrogen, Ammonia	0.035	J	mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:12	44,350.1	AT
Nitrogen, Nitrate	0.078	J	mg/l	0.10	0.015	1	-	09/19/13 04:03	44,353.2	DB
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.060	1	09/20/13 13:50	09/23/13 20:56	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:31	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.08		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 19:50	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:47	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/19/13 21:18	44,300.0	AU
Chloride	13.8		mg/l	0.500	0.168	1	-	09/19/13 21:18	44,300.0	AU
Sulfate	71.8		mg/l	1.00	0.229	1	-	09/19/13 21:18	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-05
Client ID: MW-46
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 15:30
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	09/19/13 05:10	30,2120B	DE
Alkalinity, Total	352.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	710		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/20/13 10:00	09/20/13 15:03	1,9010C/9012A	JO
Nitrogen, Ammonia	0.352		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:13	44,350.1	AT
Nitrogen, Nitrate	0.071	J	mg/l	0.10	0.015	1	-	09/19/13 04:06	44,353.2	DB
Nitrogen, Total Kjeldahl	0.51		mg/l	0.30	0.060	1	09/20/13 13:50	09/23/13 20:57	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:31	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	1.77		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 19:50	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:47	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.117		mg/l	0.050	0.010	1	-	09/19/13 21:30	44,300.0	AU
Chloride	176.		mg/l	12.5	4.20	25	-	09/20/13 01:54	44,300.0	AU
Sulfate	75.3		mg/l	1.00	0.229	1	-	09/19/13 21:30	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-06
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 16:00
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	19		A.P.C.U.	5.0	5.0	1	-	09/19/13 05:10	30,2120B	DE
Alkalinity, Total	281.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	360		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/22/13 14:20	09/24/13 12:35	1,9010C/9012A	JO
Nitrogen, Ammonia	1.01		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:14	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 04:07	44,353.2	DB
Nitrogen, Total Kjeldahl	1.3		mg/l	0.30	0.060	1	09/20/13 13:50	09/23/13 20:57	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:31	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.23		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 22:23	4,420.1	MP
Chromium, Hexavalent	0.001	J	mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:47	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.041	J	mg/l	0.050	0.010	1	-	09/19/13 22:18	44,300.0	AU
Chloride	26.0		mg/l	0.500	0.168	1	-	09/19/13 22:18	44,300.0	AU
Sulfate	61.2		mg/l	1.00	0.229	1	-	09/19/13 22:18	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318439-07
Client ID: MW-31
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 16:40
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	7.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 05:10	30,2120B	DE
Alkalinity, Total	354.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	630		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/22/13 14:20	09/24/13 12:36	1,9010C/9012A	JO
Nitrogen, Ammonia	1.86		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:17	44,350.1	AT
Nitrogen, Nitrate	0.26		mg/l	0.10	0.015	1	-	09/19/13 04:08	44,353.2	DB
Nitrogen, Total Kjeldahl	2.2		mg/l	0.30	0.060	1	09/20/13 13:50	09/23/13 20:58	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:32	44,410.4	TL
BOD, 5 day	5.9		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.18		mg/l	1.00	0.052	2	-	09/23/13 07:25	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 22:23	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:47	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.075		mg/l	0.050	0.010	1	-	09/19/13 22:30	44,300.0	AU
Chloride	84.6		mg/l	5.00	1.68	10	-	09/20/13 02:06	44,300.0	AU
Sulfate	96.6		mg/l	1.00	0.229	1	-	09/19/13 22:30	44,300.0	AU

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG637260-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 01:57	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG637300-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:45	1,7196A	DE
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG637401-1										
Nitrogen, Ammonia	0.043	J	mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 21:55	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG637443-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:26	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG637528-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 02-05 Batch: WG637703-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/20/13 10:00	09/20/13 14:45	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 02-06 Batch: WG637741-1										
Total Organic Carbon	ND		mg/l	0.500	0.026	1	-	09/20/13 07:17	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG637794-1										
Nitrogen, Total Kjeldahl	0.16	J	mg/l	0.30	0.020	1	09/20/13 13:50	09/23/13 20:45	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG637855-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:26	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 06-07 Batch: WG638124-1										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	09/22/13 14:20	09/24/13 12:21	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG638148-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG638250-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 19:45	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01,07 Batch: WG638288-1										
Total Organic Carbon	0.040	J	mg/l	0.500	0.026	1	-	09/23/13 07:25	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG638363-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD

Project Name: US SALT **Lab Number:** L1318439

Project Number: Not Specified **Report Date:** 09/26/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-07 Batch: WG638415-1										
Bromide	ND		mg/l	0.050	0.010	1	-	09/19/13 17:42	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	09/19/13 17:42	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	09/19/13 17:42	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG637260-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG637292-1								
SALINITY	95		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG637300-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG637401-2								
Nitrogen, Ammonia	93		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG637443-2 WG637443-3								
Cyanide, Total	104		104		80-120	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG637528-2								
BOD, 5 day	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-05 Batch: WG637703-2 WG637703-3								
Cyanide, Total	101		104		80-120	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-06 Batch: WG637741-2					
Total Organic Carbon	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG637794-2					
Nitrogen, Total Kjeldahl	95	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG637855-2					
Chemical Oxygen Demand	98	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 06-07 Batch: WG638124-4 WG638124-5					
Cyanide, Total	98	97	80-120	1	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG638148-2					
Solids, Total Dissolved	98	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG638250-2					
Phenolics, Total	105	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01,07 Batch: WG638288-2					
Total Organic Carbon	99	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG638363-2					
Alkalinity, Total	103	-	90-110	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-07 Batch: WG638415-2					
Bromide	96	-	90-110	-	
Chloride	106	-	90-110	-	
Sulfate	107	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637260-4 QC Sample: L1318438-02 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	4.2	104		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637300-4 QC Sample: L1318439-01 Client ID: MW-43												
Chromium, Hexavalent	ND	0.1	0.097	97		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637401-4 QC Sample: L1318438-02 Client ID: MS Sample												
Nitrogen, Ammonia	1.21	4	4.83	90		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG637443-4 WG637443-5 QC Sample: L1318438-06 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.199	100		0.197	98		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637528-4 QC Sample: L1318466-01 Client ID: MS Sample												
BOD, 5 day	ND	100	120	119		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 02-05 QC Batch ID: WG637703-4 WG637703-5 QC Sample: L1318439-05 Client ID: MW-46												
Cyanide, Total	0.001J	0.2	0.198	99		0.204	102		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG637741-4 QC Sample: L1318311-01 Client ID: MS Sample												
Total Organic Carbon	14.0	80	99.1	106		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637794-4 QC Sample: L1318439-01 Client ID: MW-43												
Nitrogen, Total Kjeldahl	0.75	8	8.0	91		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637855-3 QC Sample: L1318439-07 Client ID: MW-31												
Chemical Oxygen Demand	ND	47.6	44	92		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 06-07 QC Batch ID: WG638124-3 WG638124-2 QC Sample: L1318440-02 Client ID: MS Sample									
Cyanide, Total	0.002J	0.2	0.197	98	0.195	98	80-120	1	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG638250-4 QC Sample: L1318238-18 Client ID: MS Sample									
Phenolics, Total	0.020J	0.8	0.91	114	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 01,07 QC Batch ID: WG638288-4 QC Sample: L1318440-02 Client ID: MS Sample									
Total Organic Carbon	13.3	20	34.8	108	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG638363-3 QC Sample: L1318442-01 Client ID: MS Sample									
Alkalinity, Total	217.	100	311	94	-	-	86-116	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG638415-3 QC Sample: L1318439-04 Client ID: MW-42									
Bromide	ND	0.4	0.343	86	-	-	77-119	-	20
Chloride	13.8	4	17.4	90	-	-	40-151	-	18
Sulfate	71.8	8	77.3	69	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637260-3 QC Sample: L1318438-02 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637292-2 QC Sample: L1318438-02 Client ID: DUP Sample						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637294-1 QC Sample: L1318439-07 Client ID: MW-31						
Color, Apparent	7.0	7.0	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637300-3 QC Sample: L1318439-01 Client ID: MW-43						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637401-3 QC Sample: L1318438-02 Client ID: DUP Sample						
Nitrogen, Ammonia	1.21	1.33	mg/l	9		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637528-3 QC Sample: L1318466-02 Client ID: DUP Sample						
BOD, 5 day	3.7	3.4	mg/l	8		35
General Chemistry - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG637741-3 QC Sample: L1318311-01 Client ID: DUP Sample						
Total Organic Carbon	14.0	14.3	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637794-3 QC Sample: L1318439-01 Client ID: MW-43						
Nitrogen, Total Kjeldahl	0.75	0.73	mg/l	3		24
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG637855-4 QC Sample: L1318439-07 Client ID: MW-31						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG638148-3 QC Sample: L1318438-02 Client ID: DUP Sample					
Solids, Total Dissolved	1100	1100	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG638250-3 QC Sample: L1318238-18 Client ID: DUP Sample					
Phenolics, Total	0.020J	0.040	mg/l	NC	12
General Chemistry - Westborough Lab Associated sample(s): 01,07 QC Batch ID: WG638288-3 QC Sample: L1318440-02 Client ID: DUP Sample					
Total Organic Carbon	13.3	13.7	mg/l	3	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG638363-4 QC Sample: L1318442-01 Client ID: DUP Sample					
Alkalinity, Total	217.	215.	mg CaCO3/L	1	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG638415-4 QC Sample: L1318439-04 Client ID: MW-42					
Bromide	ND	ND	mg/l	NC	20
Chloride	13.8	13.8	mg/l	0	18
Sulfate	71.8	71.8	mg/l	0	20

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318439-01A	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-01B	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-01C	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-01D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-5310(28)
L1318439-01E	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-5310(28)
L1318439-01F	Amber 500ml H2SO4 preserved	A	<2	3	Y	Absent	TPHENOL-420(28)
L1318439-01G	Plastic 1000ml unpreserved	A	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318439-01H	Glass 250ml unpreserved	A	7	3	Y	Absent	SALINITY(28),NO3-353(2)
L1318439-01I	Plastic 500ml unpreserved	A	7	3	Y	Absent	BOD-5210(2)
L1318439-01J	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318439-01K	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318439-01L	Plastic 250ml unpreserved	A	7	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318439-01M	Plastic 250ml NaOH preserved	A	>12	3	Y	Absent	TCN-9010(14)
L1318439-01N	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1318439-02A	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-02B	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318439-02C	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-02D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-5310(28)
L1318439-02E	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-5310(28)
L1318439-02F	Amber 500ml H2SO4 preserved	A	<2	3	Y	Absent	TPHENOL-420(28)
L1318439-02G	Plastic 1000ml unpreserved	A	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318439-02H	Glass 250ml unpreserved	A	7	3	Y	Absent	SALINITY(28),NO3-353(2)
L1318439-02I	Plastic 500ml unpreserved	A	7	3	Y	Absent	BOD-5210(2)
L1318439-02J	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318439-02K	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318439-02L	Plastic 250ml unpreserved	A	7	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318439-02M	Plastic 250ml NaOH preserved	A	>12	3	Y	Absent	TCN-9010(14)
L1318439-02N	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1318439-03A	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-03B	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-03C	Vial HCl preserved	A	N/A	3	Y	Absent	NYTCL-8260(14)
L1318439-03D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-5310(28)
L1318439-03E	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-5310(28)
L1318439-03F	Amber 500ml H2SO4 preserved	A	<2	3	Y	Absent	TPHENOL-420(28)
L1318439-03G	Plastic 1000ml unpreserved	A	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318439-03H	Plastic 250ml unpreserved	A	7	3	Y	Absent	SALINITY(28),NO3-353(2)
L1318439-03I	Plastic 500ml unpreserved	A	7	3	Y	Absent	BOD-5210(2)
L1318439-03J	Plastic 500ml H2SO4 preserved	A	<2	3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318439-03K	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318439-03L	Plastic 250ml unpreserved	A	7	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318439-03M	Plastic 250ml NaOH preserved	A	>12	3	Y	Absent	TCN-9010(14)
L1318439-03N	Plastic 250ml unpreserved	A	N/A	3	Y	Absent	ALK-T-2320(14)
L1318439-04A	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-04B	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-04C	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-04D	Vial H2SO4 preserved	B	N/A	5	Y	Absent	TOC-5310(28)
L1318439-04E	Vial H2SO4 preserved	B	N/A	5	Y	Absent	TOC-5310(28)
L1318439-04F	Amber 500ml H2SO4 preserved	B	<2	5	Y	Absent	TPHENOL-420(28)
L1318439-04G	Plastic 1000ml unpreserved	B	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318439-04H	Glass 250ml unpreserved	B	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318439-04I	Plastic 500ml unpreserved	B	7	5	Y	Absent	BOD-5210(2)
L1318439-04J	Plastic 500ml H2SO4 preserved	B	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318439-04K	Plastic 500ml HNO3 preserved	B	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318439-04L	Plastic 250ml unpreserved	B	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318439-04M	Plastic 250ml NaOH preserved	B	>12	5	Y	Absent	TCN-9010(14)
L1318439-04N	Plastic 250ml unpreserved	B	N/A	5	Y	Absent	ALK-T-2320(14)
L1318439-05A	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-05B	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-05C	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318439-05D	Vial H2SO4 preserved	B	N/A	5	Y	Absent	TOC-5310(28)
L1318439-05E	Vial H2SO4 preserved	B	N/A	5	Y	Absent	TOC-5310(28)
L1318439-05F	Amber 500ml H2SO4 preserved	B	<2	5	Y	Absent	TPHENOL-420(28)
L1318439-05G	Plastic 1000ml unpreserved	B	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318439-05H	Glass 250ml unpreserved	B	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318439-05I	Plastic 500ml unpreserved	B	7	5	Y	Absent	BOD-5210(2)
L1318439-05J	Plastic 500ml H2SO4 preserved	B	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318439-05K	Plastic 500ml HNO3 preserved	B	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318439-05L	Plastic 250ml unpreserved	B	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318439-05M	Plastic 250ml NaOH preserved	B	>12	5	Y	Absent	TCN-9010(14)
L1318439-05N	Plastic 250ml unpreserved	B	N/A	5	Y	Absent	ALK-T-2320(14)
L1318439-06A	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-06B	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-06C	Vial HCl preserved	B	N/A	5	Y	Absent	NYTCL-8260(14)
L1318439-06D	Vial H2SO4 preserved	B	N/A	5	Y	Absent	TOC-5310(28)
L1318439-06E	Vial H2SO4 preserved	B	N/A	5	Y	Absent	TOC-5310(28)
L1318439-06F	Amber 500ml H2SO4 preserved	B	<2	5	Y	Absent	TPHENOL-420(28)
L1318439-06G	Plastic 1000ml unpreserved	B	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318439-06H	Glass 250ml unpreserved	B	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318439-06I	Plastic 500ml unpreserved	B	7	5	Y	Absent	BOD-5210(2)
L1318439-06J	Plastic 500ml H2SO4 preserved	B	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318439
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318439-06K	Plastic 500ml HNO3 preserved	B	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318439-06L	Plastic 250ml unpreserved	B	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318439-06M	Plastic 250ml NaOH preserved	B	>12	5	Y	Absent	TCN-9010(14)
L1318439-06N	Plastic 250ml unpreserved	B	N/A	5	Y	Absent	ALK-T-2320(14)
L1318439-07A	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318439-07B	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318439-07C	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318439-07D	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318439-07E	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318439-07F	Amber 500ml H2SO4 preserved	C	<2	6	Y	Absent	TPHENOL-420(28)
L1318439-07G	Plastic 1000ml unpreserved	C	7	6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318439-07H	Glass 250ml unpreserved	C	7	6	Y	Absent	SALINITY(28),NO3-353(2)
L1318439-07I	Plastic 500ml unpreserved	C	7	6	Y	Absent	BOD-5210(2)
L1318439-07J	Plastic 500ml H2SO4 preserved	C	<2	6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318439-07K	Plastic 500ml HNO3 preserved	C	<2	6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318439-07L	Plastic 250ml unpreserved	C	7	6	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318439-07M	Plastic 250ml NaOH preserved	C	>12	6	Y	Absent	TCN-9010(14)
L1318439-07N	Plastic 250ml unpreserved	C	N/A	6	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1318439
Project Number:	Not Specified	**Report Date:**	09/26/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1318439
Project Number:	Not Specified	**Report Date:**	09/26/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1318439
Project Number: Not Specified **Report Date:** 09/26/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/19/13

ALPHA Job #: L1314439

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #:

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

Client Information

Client: CT Male Associates

Address: 50 Centruy Hill Drive

Latham, NY 12110

Phone: 518.786.7400

Fax: 518.786.7299

Email: k.moline@ctmale.com

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/25/13 Time:

Report Information / Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NYCRR Part 360 - Baseline Parameters
Metals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	TOTAL # BOTTLES
1843911	MW-43	9/18/13	1220	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
12	MW-32		1300	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
13	MW-33		1330	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
14	MW-42		1505	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
15	MW-46		1530	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
16	MW-24		1600	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
17	MW-31		1640	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				Container Type		P	P	P	A	P	V	P	P	V	P	A	-		
				Preservative		C	E	A	D	A	D	D	A	B	A	A	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

FORM NO: 01-01(I) (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	9/18/13 1715	James Ruckin	9-18-13 1715
James Ruckin	9-18-13 1845	Robert Hain	9-18-13 1845
Robert Hain	9-18-13 2[illegible]	[illegible]	9/18 2[illegible]
[illegible]	9/19/13 0015	Richard Cash	9/19/13 0015

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1318438
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	Not Specified
Report Date:	09/26/13

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1318438-01	TRIP BLANK	READING, NY	09/18/13 00:00
L1318438-02	MW-30	READING, NY	09/18/13 07:50
L1318438-03	MW-48	READING, NY	09/18/13 08:20
L1318438-04	MW-40	READING, NY	09/18/13 08:50
L1318438-05	MW-22	READING, NY	09/18/13 09:25
L1318438-06	MW-49	READING, NY	09/18/13 09:50
L1318438-07	MW-50	READING, NY	09/18/13 10:20
L1318438-08	MW-23	READING, NY	09/18/13 10:55
L1318438-09	MW-44	READING, NY	09/18/13 11:15
L1318438-10	MW-45	READING, NY	09/18/13 11:50

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1318438
Project Number: Not Specified **Report Date:** 09/26/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The samples were received below the appropriate pH for the cyanide analysis. The laboratory added additional NaOH to a pH >12.

Metals

L1318438-08 and -09 have elevated detection limits for all elements, with the exception of boron, calcium, magnesium, and mercury, due to the dilutions required by matrix interferences encountered during analysis.
The WG637317-4 MS recovery, performed on L1318438-02, is below the acceptance criteria for selenium (78%). A post digestion spike was performed with an acceptable recovery of 111%.
The WG637318-4 MS recoveries for calcium (0%), magnesium (70%), and hardness (60%), performed on L1318438-02, do not apply because the sample concentrations are greater than four times the spike amount added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 09/26/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-01
Client ID: TRIP BLANK
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/25/13 10:37
Analyst: MM

Date Collected: 09/18/13 00:00
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-01 Date Collected: 09/18/13 00:00

Client ID: TRIP BLANK Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-02
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/25/13 11:09
Analyst: MM

Date Collected: 09/18/13 07:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.25	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-02 Date Collected: 09/18/13 07:50

Client ID: MW-30 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.1	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318438-03	Date Collected:	09/18/13 08:20
Client ID:	MW-48	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/25/13 11:41		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-03 Date Collected: 09/18/13 08:20

Client ID: MW-48 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.4	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318438-04	Date Collected:	09/18/13 08:50
Client ID:	MW-40	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/25/13 12:13		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-04 Date Collected: 09/18/13 08:50

Client ID: MW-40 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318438-05	Date Collected:	09/18/13 09:25
Client ID:	MW-22	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/25/13 12:45		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-05 Date Collected: 09/18/13 09:25

Client ID: MW-22 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.5	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318438-06	Date Collected:	09/18/13 09:50
Client ID:	MW-49	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/25/13 13:17		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-06 Date Collected: 09/18/13 09:50

Client ID: MW-49 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.5	J	ug/l	5.0	1.0	1
Carbon disulfide	1.2	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318438-07	Date Collected:	09/18/13 10:20
Client ID:	MW-50	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/25/13 13:49		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-07 Date Collected: 09/18/13 10:20

Client ID: MW-50 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-08
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 09/25/13 14:21
Analyst: MM

Date Collected: 09/18/13 10:55
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-08 Date Collected: 09/18/13 10:55

Client ID: MW-23 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318438-09	Date Collected:	09/18/13 11:15
Client ID:	MW-44	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/25/13 14:53		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-09 Date Collected: 09/18/13 11:15

Client ID: MW-44 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.8	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID:	L1318438-10	Date Collected:	09/18/13 11:50
Client ID:	MW-45	Date Received:	09/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/25/13 15:24		
Analyst:	MM		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-10 Date Collected: 09/18/13 11:50

Client ID: MW-45 Date Received: 09/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.8	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/25/13 05:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG638901-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/25/13 05:53
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG638901-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638901-1 WG638901-2								
Methylene chloride	80		78		70-130	3		20
1,1-Dichloroethane	90		88		70-130	2		20
Chloroform	93		91		70-130	2		20
Carbon tetrachloride	104		105		63-132	1		20
1,2-Dichloropropane	84		83		70-130	1		20
Dibromochloromethane	92		92		63-130	0		20
1,1,2-Trichloroethane	91		88		70-130	3		20
Tetrachloroethene	100		99		70-130	1		20
Chlorobenzene	93		90		75-130	3		20
Trichlorofluoromethane	105		101		62-150	4		20
1,2-Dichloroethane	95		92		70-130	3		20
1,1,1-Trichloroethane	94		93		67-130	1		20
Bromodichloromethane	90		89		67-130	1		20
trans-1,3-Dichloropropene	80		79		70-130	1		20
cis-1,3-Dichloropropene	80		79		70-130	1		20
1,1-Dichloropropene	94		92		70-130	2		20
Bromoform	83		84		54-136	1		20
1,1,2,2-Tetrachloroethane	89		87		67-130	2		20
Benzene	88		87		70-130	1		20
Toluene	89		87		70-130	2		20
Ethylbenzene	97		96		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638901-1 WG638901-2								
Chloromethane	83		83		64-130	0		20
Bromomethane	87		81		39-139	7		20
Vinyl chloride	97		93		55-140	4		20
Chloroethane	92		90		55-138	2		20
1,1-Dichloroethene	93		91		61-145	2		20
trans-1,2-Dichloroethene	92		90		70-130	2		20
Trichloroethene	92		90		70-130	2		20
1,2-Dichlorobenzene	95		91		70-130	4		20
1,3-Dichlorobenzene	94		92		70-130	2		20
1,4-Dichlorobenzene	94		90		70-130	4		20
Methyl tert butyl ether	79		77		63-130	3		20
p/m-Xylene	94		93		70-130	1		20
o-Xylene	94		92		70-130	2		20
cis-1,2-Dichloroethene	90		88		70-130	2		20
Dibromomethane	92		90		70-130	2		20
1,2,3-Trichloropropane	88		86		64-130	2		20
Acrylonitrile	80		79		70-130	1		20
Isopropyl Ether	85		82		70-130	4		20
tert-Butyl Alcohol	**60**	Q	**63**	Q	70-130	5		20
Styrene	94		92		70-130	2		20
Dichlorodifluoromethane	112		108		36-147	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638901-1 WG638901-2								
Acetone	99		80		58-148	**21**	Q	20
Carbon disulfide	92		91		51-130	1		20
2-Butanone	95		80		63-138	17		20
Vinyl acetate	72		70		70-130	3		20
4-Methyl-2-pentanone	74		72		59-130	3		20
2-Hexanone	93		82		57-130	13		20
Acrolein	89		86		40-160	3		20
Bromochloromethane	90		89		70-130	1		20
2,2-Dichloropropane	80		80		63-133	0		20
1,2-Dibromoethane	90		90		70-130	0		20
1,3-Dichloropropane	88		87		70-130	1		20
1,1,1,2-Tetrachloroethane	88		87		64-130	1		20
Bromobenzene	94		91		70-130	3		20
n-Butylbenzene	103		102		53-136	1		20
sec-Butylbenzene	101		101		70-130	0		20
tert-Butylbenzene	99		97		70-130	2		20
o-Chlorotoluene	95		92		70-130	3		20
p-Chlorotoluene	94		91		70-130	3		20
1,2-Dibromo-3-chloropropane	82		83		41-144	1		20
Hexachlorobutadiene	107		107		63-130	0		20
Isopropylbenzene	98		98		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638901-1 WG638901-2								
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	85		84		70-130	1		20
n-Propylbenzene	99		98		69-130	1		20
1,2,3-Trichlorobenzene	96		95		70-130	1		20
1,2,4-Trichlorobenzene	97		95		70-130	2		20
1,3,5-Trimethylbenzene	98		95		64-130	3		20
1,2,4-Trimethylbenzene	95		93		70-130	2		20
Methyl Acetate	84		84		70-130	0		20
Ethyl Acetate	81		83		70-130	2		20
Cyclohexane	94		92		70-130	2		20
Ethyl-Tert-Butyl-Ether	79		77		70-130	3		20
Tertiary-Amyl Methyl Ether	75		73		66-130	3		20
1,4-Dioxane	90		110		56-162	20		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	100		96		70-130	4		20
1,4-Diethylbenzene	99		96		70-130	3		20
4-Ethyltoluene	97		95		70-130	2		20
1,2,4,5-Tetramethylbenzene	100		99		70-130	1		20
Ethyl ether	85		83		59-134	2		20
trans-1,4-Dichloro-2-butene	84		81		70-130	4		20
Iodomethane	**68**	Q	74		70-130	8		20
Methyl cyclohexane	101		99		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT

Project Number: Not Specified

Lab Number: L1318438

Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG638901-1 WG638901-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	109		108		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	103		103		70-130

METALS

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-02
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 07:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.174		mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00118		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Barium, Total	0.1686		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Boron, Total	0.206		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 15:29	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Calcium, Total	170		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 15:29	EPA 3005A	1,6010C	MG
Chromium, Total	0.00115		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00027	J	mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Copper, Total	0.00073	J	mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Iron, Total	2.37		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Magnesium, Total	71.		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 15:29	EPA 3005A	1,6010C	MG
Manganese, Total	0.3364		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:11	EPA 7470A	1,7470A	DR
Nickel, Total	0.00135		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Potassium, Total	19.8		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Selenium, Total	0.00112	J	mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Sodium, Total	67.7		mg/l	1.00	0.150	10	09/19/13 07:31	09/24/13 16:37	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00028	J	mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Zinc, Total	0.01165		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 17:57	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	720		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 15:29	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-03
Client ID: MW-48
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 08:20
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.156		mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Antimony, Total	0.00127		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00405		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Barium, Total	0.1451		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Boron, Total	0.150		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 15:43	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Calcium, Total	150		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 15:43	EPA 3005A	1,6010C	MG
Chromium, Total	0.00114		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00091		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Copper, Total	0.00075	J	mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Iron, Total	1.12		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Lead, Total	0.00040	J	mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Magnesium, Total	58.		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 15:43	EPA 3005A	1,6010C	MG
Manganese, Total	0.4433		mg/l	0.00500	0.00100	10	09/19/13 07:31	09/24/13 17:20	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:13	EPA 7470A	1,7470A	DR
Nickel, Total	0.00551		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Potassium, Total	6.97		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Selenium, Total	0.00095	J	mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Sodium, Total	48.0		mg/l	1.00	0.150	10	09/19/13 07:31	09/24/13 17:20	EPA 3005A	1,6020A	BM
Thallium, Total	0.00006	J	mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00078	J	mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Zinc, Total	0.01226		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 18:43	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	610		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 15:43	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-04
Client ID: MW-40
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 08:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.132		mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Antimony, Total	0.00022	J	mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00183		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Barium, Total	0.04936		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Boron, Total	0.163		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 15:46	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Calcium, Total	100		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 15:46	EPA 3005A	1,6010C	MG
Chromium, Total	0.00117		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00066		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Copper, Total	0.00107		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Iron, Total	0.702		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Lead, Total	0.00045	J	mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Magnesium, Total	41.		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 15:46	EPA 3005A	1,6010C	MG
Manganese, Total	1.066		mg/l	0.00500	0.00100	10	09/19/13 07:31	09/24/13 17:26	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:19	EPA 7470A	1,7470A	DR
Nickel, Total	0.00293		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Potassium, Total	19.3		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Selenium, Total	0.00060	J	mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Sodium, Total	52.5		mg/l	1.00	0.150	10	09/19/13 07:31	09/24/13 17:26	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00155	J	mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Zinc, Total	0.01366		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 18:49	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	430		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 15:46	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-05
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 09:25
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0554		mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00114		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Barium, Total	0.09325		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Boron, Total	0.0844		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 15:50	EPA 3005A	1,6010C	MG
Cadmium, Total	0.00005	J	mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Calcium, Total	150		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 15:50	EPA 3005A	1,6010C	MG
Chromium, Total	0.00092	J	mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00062		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Copper, Total	0.00064	J	mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Iron, Total	1.11		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Lead, Total	0.00020	J	mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Magnesium, Total	65.		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 15:50	EPA 3005A	1,6010C	MG
Manganese, Total	0.3073		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:21	EPA 7470A	1,7470A	DR
Nickel, Total	0.00127		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Potassium, Total	6.06		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Selenium, Total	0.00091	J	mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Sodium, Total	138.		mg/l	1.00	0.150	10	09/19/13 07:31	09/24/13 17:32	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00019	J	mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Zinc, Total	0.01396		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 18:55	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	640		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 15:50	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-06
Client ID: MW-49
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 09:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.123		mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Antimony, Total	0.00014	J	mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00137		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Barium, Total	0.4496		mg/l	0.00500	0.00100	10	09/19/13 07:31	09/24/13 17:39	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Boron, Total	0.277		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 15:54	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Calcium, Total	390		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 15:54	EPA 3005A	1,6010C	MG
Chromium, Total	0.00106		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00233		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Copper, Total	0.00152		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Iron, Total	2.42		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Magnesium, Total	150		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 15:54	EPA 3005A	1,6010C	MG
Manganese, Total	0.9120		mg/l	0.00500	0.00100	10	09/19/13 07:31	09/24/13 17:39	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:22	EPA 7470A	1,7470A	DR
Nickel, Total	0.00322		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Potassium, Total	7.42		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Selenium, Total	0.00246	J	mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Sodium, Total	284.		mg/l	1.00	0.150	10	09/19/13 07:31	09/24/13 17:39	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00029	J	mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Zinc, Total	0.01359		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 19:01	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1600		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 15:54	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-07
Client ID: MW-50
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 10:20
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0248		mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00145		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Barium, Total	0.1345		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Boron, Total	0.0368		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 15:58	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Calcium, Total	230		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 15:58	EPA 3005A	1,6010C	MG
Chromium, Total	0.00096	J	mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00050		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Copper, Total	0.00100		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Iron, Total	2.13		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Magnesium, Total	100		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 15:58	EPA 3005A	1,6010C	MG
Manganese, Total	0.3550		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:24	EPA 7470A	1,7470A	DR
Nickel, Total	0.00172		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Potassium, Total	4.35		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Selenium, Total	0.00155	J	mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Sodium, Total	274.		mg/l	1.00	0.150	10	09/19/13 07:31	09/24/13 17:45	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00011	J	mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Zinc, Total	0.01245		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 19:08	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1000		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 15:58	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-08
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 10:55
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.152		mg/l	0.0200	0.00400	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00200	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00223		mg/l	0.00100	0.00040	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Barium, Total	0.1843		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Boron, Total	0.0339		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 16:09	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00040	0.00010	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Calcium, Total	410		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 16:09	EPA 3005A	1,6010C	MG
Chromium, Total	0.00154	J	mg/l	0.00200	0.00040	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00181		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Copper, Total	0.00201		mg/l	0.00200	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Iron, Total	3.21		mg/l	0.100	0.0260	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Lead, Total	0.00071	J	mg/l	0.00200	0.00040	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Magnesium, Total	140		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 16:09	EPA 3005A	1,6010C	MG
Manganese, Total	0.6290		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:26	EPA 7470A	1,7470A	DR
Nickel, Total	0.00438		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Potassium, Total	6.11		mg/l	0.200	0.0540	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Selenium, Total	0.00329	J	mg/l	0.0100	0.00060	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Sodium, Total	279.		mg/l	2.00	0.300	20	09/19/13 07:31	09/24/13 17:51	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00100	0.00006	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00025	J	mg/l	0.01000	0.00020	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Zinc, Total	0.01637	J	mg/l	0.02000	0.00240	2	09/19/13 07:31	09/24/13 19:14	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1600		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 16:09	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-09
Client ID: MW-44
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 11:15
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0703		mg/l	0.0200	0.00400	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00200	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00125		mg/l	0.00100	0.00040	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Barium, Total	0.1819		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Boron, Total	0.0395		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 16:13	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00040	0.00010	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Calcium, Total	400		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 16:13	EPA 3005A	1,6010C	MG
Chromium, Total	0.00134	J	mg/l	0.00200	0.00040	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00075	J	mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Copper, Total	0.00166	J	mg/l	0.00200	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Iron, Total	3.50		mg/l	0.100	0.0260	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00200	0.00040	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Magnesium, Total	140		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 16:13	EPA 3005A	1,6010C	MG
Manganese, Total	0.4228		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:28	EPA 7470A	1,7470A	DR
Nickel, Total	0.00312		mg/l	0.00100	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Potassium, Total	5.62		mg/l	0.200	0.0540	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Selenium, Total	0.00299	J	mg/l	0.0100	0.00060	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Sodium, Total	415.		mg/l	2.00	0.300	20	09/19/13 07:31	09/24/13 19:33	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00100	0.00006	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00029	J	mg/l	0.01000	0.00020	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Zinc, Total	0.01420	J	mg/l	0.02000	0.00240	2	09/19/13 07:31	09/24/13 19:20	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1600		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 16:13	EPA 3005A	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-10
Client ID: MW-45
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 11:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0550		mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00309		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Barium, Total	0.03672		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Boron, Total	0.0986		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 16:17	EPA 3005A	1,6010C	MG
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Calcium, Total	140		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 16:17	EPA 3005A	1,6010C	MG
Chromium, Total	0.00089	J	mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00019	J	mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Copper, Total	0.00061	J	mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Iron, Total	1.85		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Magnesium, Total	60.		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 16:17	EPA 3005A	1,6010C	MG
Manganese, Total	0.3966		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 15:30	EPA 7470A	1,7470A	DR
Nickel, Total	0.00117		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Potassium, Total	3.39		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Selenium, Total	0.00075	J	mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Sodium, Total	30.3		mg/l	0.100	0.0150	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00010	J	mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Zinc, Total	0.01162		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 19:26	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	590		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 16:17	EPA 3005A	1,6010C	MG

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-10 Batch: WG637317-1										
Aluminum, Total	0.00237	J	mg/l	0.0100	0.00200	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Chromium, Total	0.00048	J	mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Manganese, Total	ND		mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Nickel, Total	0.00020	J	mg/l	0.00050	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Sodium, Total	ND		mg/l	0.100	0.0150	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	09/19/13 07:31	09/24/13 16:24	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-10 Batch: WG637318-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	09/19/13 07:31	09/19/13 15:14	1,6010C	MG
Calcium, Total	ND		mg/l	0.10	0.030	1	09/19/13 07:31	09/19/13 15:14	1,6010C	MG
Magnesium, Total	ND		mg/l	0.10	0.010	1	09/19/13 07:31	09/19/13 15:14	1,6010C	MG

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1318438
Report Date: 09/26/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 02-10 Batch: WG637318-1										
Hardness	ND		mg/l	0.66	NA	1	09/19/13 07:31	09/19/13 15:14	1,6010C	MG

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-10 Batch: WG638500-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	09/24/13 09:20	09/24/13 14:48	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-10 Batch: WG637317-2								
Aluminum, Total	106		-		80-120	-		
Antimony, Total	90		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	95		-		80-120	-		
Beryllium, Total	100		-		80-120	-		
Cadmium, Total	109		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Cobalt, Total	106		-		80-120	-		
Copper, Total	109		-		80-120	-		
Iron, Total	103		-		80-120	-		
Lead, Total	104		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	107		-		80-120	-		
Potassium, Total	108		-		80-120	-		
Selenium, Total	108		-		80-120	-		
Silver, Total	97		-		80-120	-		
Sodium, Total	109		-		80-120	-		
Thallium, Total	98		-		80-120	-		
Vanadium, Total	99		-		80-120	-		
Zinc, Total	110		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-10 Batch: WG637318-2					
Boron, Total	106	-	80-120	-	
Calcium, Total	99	-	80-120	-	
Magnesium, Total	96	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-10 Batch: WG637318-2					
Hardness	97	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02-10 Batch: WG638500-2					
Mercury, Total	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637317-4 QC Sample: L1318438-02 Client ID: MW-30												
Aluminum, Total	0.174	2	2.08	96		-	-		80-120	-		20
Antimony, Total	ND	0.5	0.4471	89		-	-		80-120	-		20
Arsenic, Total	0.00118	0.12	0.1188	99		-	-		80-120	-		20
Barium, Total	0.1686	2	1.865	85		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.04551	91		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.04918	96		-	-		80-120	-		20
Chromium, Total	0.00115	0.2	0.1788	89		-	-		80-120	-		20
Cobalt, Total	0.00027J	0.5	0.4648	93		-	-		80-120	-		20
Copper, Total	0.00073J	0.25	0.2376	95		-	-		80-120	-		20
Iron, Total	2.37	1	3.35	92		-	-		80-120	-		20
Lead, Total	ND	0.51	0.4791	94		-	-		80-120	-		20
Manganese, Total	0.3364	0.5	0.7925	90		-	-		80-120	-		20
Nickel, Total	0.00135	0.5	0.4704	94		-	-		80-120	-		20
Potassium, Total	19.8	10	28.9	88		-	-		80-120	-		20
Selenium, Total	0.00112J	0.12	0.0941	**78**	Q	-	-		80-120	-		20
Silver, Total	ND	0.05	0.04273	85		-	-		80-120	-		20
Sodium, Total	67.7	10	76.6	89		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1059	88		-	-		80-120	-		20
Vanadium, Total	0.00028J	0.5	0.4460	89		-	-		80-120	-		20
Zinc, Total	0.01165	0.5	0.5041	101		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637318-4 QC Sample: L1318438-02 Client ID: MW-30										
Boron, Total	0.206	1	1.21	100		-	-	75-125	-	20
Calcium, Total	170	10	170	**0**	Q	-	-	75-125	-	20
Magnesium, Total	71.	10	78	**70**	Q	-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637318-4 QC Sample: L1318438-02 Client ID: MW-30										
Hardness	720	66.2	760	**60**	Q	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG638500-4 QC Sample: L1318437-01 Client ID: MS Sample										
Mercury, Total	ND	0.005	0.00504	101		-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637317-3 QC Sample: L1318438-02 Client ID: MW-30						
Sodium, Total	67.7	68.3	mg/l	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637317-3 QC Sample: L1318438-02 Client ID: MW-30					
Aluminum, Total	0.174	0.181	mg/l	4	20
Antimony, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.00118	0.00118	mg/l	0	20
Barium, Total	0.1686	0.1734	mg/l	3	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.00115	0.00116	mg/l	1	20
Cobalt, Total	0.00027J	0.00028J	mg/l	NC	20
Copper, Total	0.00073J	0.00076J	mg/l	NC	20
Iron, Total	2.37	2.47	mg/l	4	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	0.3364	0.3426	mg/l	2	20
Nickel, Total	0.00135	0.00146	mg/l	8	20
Potassium, Total	19.8	20.3	mg/l	2	20
Selenium, Total	0.00112J	0.00104J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	0.00028J	0.00032J	mg/l	NC	20
Zinc, Total	0.01165	0.01119	mg/l	4	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637318-3 QC Sample: L1318438-02 Client ID: MW-30					
Boron, Total	0.206	0.210	mg/l	2	20
Calcium, Total	170	170	mg/l	0	20
Magnesium, Total	71.	72.	mg/l	1	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637318-3 QC Sample: L1318438-02 Client ID: MW-30					
Hardness	720	730	mg/l	1	20
Total Metals - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG638500-3 QC Sample: L1318437-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-02
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 07:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	17		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	273.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	1100		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:29	1,9010C/9012A	JO
Nitrogen, Ammonia	1.21		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 21:58	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 03:52	44,353.2	DB
Nitrogen, Total Kjeldahl	1.5		mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:24	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:27	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	1.93		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 12:34	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:39	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.233		mg/l	0.050	0.010	1	-	09/19/13 18:18	44,300.0	AU
Chloride	505.		mg/l	25.0	8.40	50	-	09/19/13 21:42	44,300.0	AU
Sulfate	26.0		mg/l	1.00	0.229	1	-	09/19/13 18:18	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-03
Client ID: MW-48
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 08:20
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	7.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	349.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	820		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:30	1,9010C/9012A	JO
Nitrogen, Ammonia	0.379		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:00	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 03:54	44,353.2	DB
Nitrogen, Total Kjeldahl	0.60		mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:27	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:27	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	1.69		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 12:35	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:40	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.130		mg/l	0.050	0.010	1	-	09/19/13 18:30	44,300.0	AU
Chloride	257.		mg/l	12.5	4.20	25	-	09/19/13 23:06	44,300.0	AU
Sulfate	51.2		mg/l	1.00	0.229	1	-	09/19/13 18:30	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-04
Client ID: MW-40
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 08:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	8.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	188.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	750		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:30	1,9010C/9012A	JO
Nitrogen, Ammonia	0.273		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:01	44,350.1	AT
Nitrogen, Nitrate	0.052	J	mg/l	0.10	0.015	1	-	09/19/13 03:54	44,353.2	DB
Nitrogen, Total Kjeldahl	0.66		mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:28	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.8	J	mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:28	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.37		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.060		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 12:34	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:40	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.134		mg/l	0.050	0.010	1	-	09/20/13 03:06	44,300.0	AU
Chloride	263.		mg/l	12.5	4.20	25	-	09/20/13 03:18	44,300.0	AU
Sulfate	54.4		mg/l	1.00	0.229	1	-	09/20/13 03:06	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-05
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 09:25
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	7.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	371.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	1100		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:31	1,9010C/9012A	JO
Nitrogen, Ammonia	0.376		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:02	44,350.1	AT
Nitrogen, Nitrate	0.017	J	mg/l	0.10	0.015	1	-	09/19/13 03:57	44,353.2	DB
Nitrogen, Total Kjeldahl	0.53		mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:28	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:28	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	1.88		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 12:35	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:40	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.105		mg/l	0.050	0.010	1	-	09/19/13 18:54	44,300.0	AU
Chloride	439.		mg/l	12.5	4.20	25	-	09/19/13 23:18	44,300.0	AU
Sulfate	51.7		mg/l	1.00	0.229	1	-	09/19/13 18:54	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-06
Client ID: MW-49
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 09:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	7.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	342.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	3.0		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	2800		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:32	1,9010C/9012A	JO
Nitrogen, Ammonia	1.13		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:03	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 03:58	44,353.2	DB
Nitrogen, Total Kjeldahl	1.3		mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:32	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.7	J	mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:28	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.13		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 12:36	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:41	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.364		mg/l	0.050	0.010	1	-	09/19/13 19:06	44,300.0	AU
Chloride	1440		mg/l	50.0	16.8	100	-	09/19/13 23:30	44,300.0	AU
Sulfate	67.3		mg/l	1.00	0.229	1	-	09/19/13 19:06	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-07
Client ID: MW-50
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 10:20
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	21		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	361.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	2600		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:36	1,9010C/9012A	JO
Nitrogen, Ammonia	0.123		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:06	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 03:59	44,353.2	DB
Nitrogen, Total Kjeldahl	0.27	J	mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:33	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.7	J	mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:28	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.57		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 15:53	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:41	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.276		mg/l	0.050	0.010	1	-	09/19/13 19:18	44,300.0	AU
Chloride	1360		mg/l	50.0	16.8	100	-	09/19/13 23:42	44,300.0	AU
Sulfate	74.0		mg/l	1.00	0.229	1	-	09/19/13 19:18	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-08
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 10:55
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	8.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	321.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	3.2		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	3200		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:36	1,9010C/9012A	JO
Nitrogen, Ammonia	0.088		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:07	44,350.1	AT
Nitrogen, Nitrate	0.018	J	mg/l	0.10	0.015	1	-	09/19/13 03:59	44,353.2	DB
Nitrogen, Total Kjeldahl	0.19	J	mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:34	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:28	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	1.80		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.060		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 15:53	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:41	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.370		mg/l	0.050	0.010	1	-	09/19/13 20:06	44,300.0	AU
Chloride	1710		mg/l	50.0	16.8	100	-	09/19/13 23:54	44,300.0	AU
Sulfate	88.4		mg/l	1.00	0.229	1	-	09/19/13 20:06	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-09
Client ID: MW-44
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 11:15
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	12		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	322.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	3.6		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	3400		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:40	1,9010C/9012A	JO
Nitrogen, Ammonia	0.124		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:08	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 04:08	44,353.2	DB
Nitrogen, Total Kjeldahl	0.37		mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:34	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:28	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	1.80		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.060		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 15:54	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:42	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.416		mg/l	0.050	0.010	1	-	09/19/13 20:18	44,300.0	AU
Chloride	1790		mg/l	50.0	16.8	100	-	09/20/13 01:06	44,300.0	AU
Sulfate	73.1		mg/l	1.00	0.229	1	-	09/19/13 20:18	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

SAMPLE RESULTS

Lab ID: L1318438-10
Client ID: MW-45
Sample Location: READING, NY
Matrix: Water

Date Collected: 09/18/13 11:50
Date Received: 09/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	9.0		A.P.C.U.	5.0	5.0	1	-	09/19/13 04:30	30,2120B	DE
Alkalinity, Total	386.		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	09/19/13 04:10	30,2520B	DE
Solids, Total Dissolved	750		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:38	1,9010C/9012A	JO
Nitrogen, Ammonia	0.191		mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 22:09	44,350.1	AT
Nitrogen, Nitrate	0.021	J	mg/l	0.10	0.015	1	-	09/19/13 04:01	44,353.2	DB
Nitrogen, Total Kjeldahl	0.52		mg/l	0.30	0.060	1	09/19/13 15:30	09/20/13 21:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:29	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
Total Organic Carbon	2.05		mg/l	1.00	0.052	2	-	09/20/13 07:17	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 22:22	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:43	1,7196A	DE
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.092		mg/l	0.050	0.010	1	-	09/19/13 20:30	44,300.0	AU
Chloride	159.		mg/l	12.5	4.20	25	-	09/20/13 01:18	44,300.0	AU
Sulfate	105.		mg/l	25.0	5.72	25	-	09/20/13 01:18	44,300.0	AU

Project Name: US SALT **Lab Number:** L1318438

Project Number: Not Specified **Report Date:** 09/26/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637260-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	09/19/13 01:57	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637299-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	09/19/13 05:10	09/19/13 05:38	1,7196A	DE
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637401-1										
Nitrogen, Ammonia	0.043	J	mg/l	0.075	0.031	1	09/19/13 11:15	09/19/13 21:55	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637443-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/19/13 14:10	09/20/13 14:26	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637500-1										
Nitrogen, Total Kjeldahl	0.096	J	mg/l	0.30	0.020	1	09/19/13 15:30	09/20/13 21:13	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637528-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	09/19/13 19:30	09/24/13 14:00	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG637721-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/24/13 10:30	09/24/13 12:31	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637741-1										
Total Organic Carbon	ND		mg/l	0.500	0.026	1	-	09/20/13 07:17	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG637855-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/20/13 16:25	09/20/13 19:26	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG638148-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	09/23/13 10:45	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG638250-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/24/13 17:30	09/24/13 19:45	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG638363-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/23/13 09:26	30,2320B	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-10 Batch: WG638415-1										
Bromide	ND		mg/l	0.050	0.010	1	-	09/19/13 17:42	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	09/19/13 17:42	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	09/19/13 17:42	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637260-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637292-1								
SALINITY	95		-			-		
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637299-2								
Chromium, Hexavalent	104		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637401-2								
Nitrogen, Ammonia	93		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637443-2 WG637443-3								
Cyanide, Total	104		104		80-120	0		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637500-2								
Nitrogen, Total Kjeldahl	92		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637528-2								
BOD, 5 day	102		-		85-115	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG637721-2					
Phenolics, Total	102	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637741-2					
Total Organic Carbon	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG637855-2					
Chemical Oxygen Demand	98	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG638148-2					
Solids, Total Dissolved	98	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG638250-2					
Phenolics, Total	105	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG638363-2					
Alkalinity, Total	103	-	90-110	-	10

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-10 Batch: WG638415-2					
Bromide	96	-	90-110	-	
Chloride	106	-	90-110	-	
Sulfate	107	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637260-4 QC Sample: L1318438-02 Client ID: MW-30												
Nitrogen, Nitrate	ND	4	4.2	104		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637299-4 QC Sample: L1318438-02 Client ID: MW-30												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637401-4 QC Sample: L1318438-02 Client ID: MW-30												
Nitrogen, Ammonia	1.21	4	4.83	90		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637443-4 WG637443-5 QC Sample: L1318438-06 Client ID: MW-49												
Cyanide, Total	ND	0.2	0.199	100		0.197	98		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637500-4 QC Sample: L1318438-02 Client ID: MW-30												
Nitrogen, Total Kjeldahl	1.5	8	9.1	95		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637528-4 QC Sample: L1318466-01 Client ID: MS Sample												
BOD, 5 day	ND	100	120	119		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG637721-4 QC Sample: L1318238-17 Client ID: MS Sample												
Phenolics, Total	0.020J	0.8	0.90	112		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637741-4 QC Sample: L1318311-01 Client ID: MS Sample												
Total Organic Carbon	14.0	80	99.1	106		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637855-3 QC Sample: L1318439-07 Client ID: MS Sample												
Chemical Oxygen Demand	ND	47.6	44	92		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG638250-4 QC Sample: L1318238-18 Client ID: MS Sample									
Phenolics, Total	0.020J	0.8	0.91	114	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG638363-3 QC Sample: L1318442-01 Client ID: MS Sample									
Alkalinity, Total	217.	100	311	94	-	-	86-116	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG638415-3 QC Sample: L1318439-04 Client ID: MS Sample									
Bromide	ND	0.4	0.343	86	-	-	77-119	-	20
Chloride	13.8	4	17.4	90	-	-	40-151	-	18
Sulfate	71.8	8	77.3	69	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637260-3 QC Sample: L1318438-02 Client ID: MW-30						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637292-2 QC Sample: L1318438-02 Client ID: MW-30						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637293-1 QC Sample: L1318438-07 Client ID: MW-50						
Color, Apparent	21.	21	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637299-3 QC Sample: L1318438-02 Client ID: MW-30						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637401-3 QC Sample: L1318438-02 Client ID: MW-30						
Nitrogen, Ammonia	1.21	1.33	mg/l	9		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637500-3 QC Sample: L1318438-02 Client ID: MW-30						
Nitrogen, Total Kjeldahl	1.5	1.5	mg/l	0		24
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637528-3 QC Sample: L1318466-02 Client ID: DUP Sample						
BOD, 5 day	3.7	3.4	mg/l	8		35
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG637721-3 QC Sample: L1318238-16 Client ID: DUP Sample						
Phenolics, Total	0.010J	0.030	mg/l	NC		12
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637741-3 QC Sample: L1318311-01 Client ID: DUP Sample						
Total Organic Carbon	14.0	14.3	mg/l	2		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG637855-4 QC Sample: L1318439-07 Client ID: DUP Sample					
Chemical Oxygen Demand	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG638148-3 QC Sample: L1318438-02 Client ID: MW-30					
Solids, Total Dissolved	1100	1100	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG638250-3 QC Sample: L1318238-18 Client ID: DUP Sample					
Phenolics, Total	0.020J	0.040	mg/l	NC	12
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG638363-4 QC Sample: L1318442-01 Client ID: DUP Sample					
Alkalinity, Total	217.	215.	mg CaCO3/L	1	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG638415-4 QC Sample: L1318439-04 Client ID: DUP Sample					
Bromide	ND	ND	mg/l	NC	20
Chloride	13.8	13.8	mg/l	0	18
Sulfate	71.8	71.8	mg/l	0	20

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318438-01A	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-02A	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-02B	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-02C	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-02D	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1318438-02E	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1318438-02F	Amber 500ml H2SO4 preserved	B	<2	4	Y	Absent	TPHENOL-420(28)
L1318438-02G	Plastic 1000ml unpreserved	B	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-02H	Glass 250ml unpreserved	B	7	4	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-02I	Plastic 500ml unpreserved	B	7	4	Y	Absent	BOD-5210(2)
L1318438-02J	Plastic 500ml H2SO4 preserved	B	<2	4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318438-02K	Plastic 500ml HNO3 preserved	B	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-02L	Plastic 250ml unpreserved	B	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-02M	Plastic 250ml NaOH preserved	B	>12	4	Y	Absent	TCN-9010(14)
L1318438-02N	Plastic 250ml unpreserved	B	N/A	4	Y	Absent	ALK-T-2320(14)
L1318438-03A	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318438-03B	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-03C	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-03D	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1318438-03E	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1318438-03F	Amber 500ml H2SO4 preserved	B	<2	4	Y	Absent	TPHENOL-420(28)
L1318438-03G	Plastic 1000ml unpreserved	B	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-03H	Glass 250ml unpreserved	B	7	4	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-03I	Plastic 500ml unpreserved	B	7	4	Y	Absent	BOD-5210(2)
L1318438-03J	Plastic 500ml H2SO4 preserved	B	<2	4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318438-03K	Plastic 500ml HNO3 preserved	B	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-03L	Plastic 250ml unpreserved	B	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-03M	Plastic 250ml NaOH preserved	B	>12	4	Y	Absent	TCN-9010(14)
L1318438-03N	Plastic 250ml unpreserved	B	N/A	4	Y	Absent	ALK-T-2320(14)
L1318438-04A	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-04B	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-04C	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1318438-04D	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1318438-04E	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1318438-04F	Amber 500ml H2SO4 preserved	B	<2	4	Y	Absent	TPHENOL-420(28)
L1318438-04G	Plastic 1000ml unpreserved	B	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-04H	Glass 250ml unpreserved	B	7	4	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-04I	Plastic 500ml unpreserved	B	7	4	Y	Absent	BOD-5210(2)
L1318438-04J	Plastic 500ml H2SO4 preserved	B	<2	4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318438-04K	Plastic 500ml HNO3 preserved	B	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-04L	Plastic 250ml unpreserved	B	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-04M	Plastic 250ml NaOH preserved	B	>12	4	Y	Absent	TCN-9010(14)
L1318438-04N	Plastic 250ml unpreserved	B	N/A	4	Y	Absent	ALK-T-2320(14)
L1318438-05A	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-05B	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-05C	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-05D	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318438-05E	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318438-05F	Amber 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L1318438-05G	Plastic 1000ml unpreserved	A	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-05H	Glass 250ml unpreserved	A	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-05I	Plastic 500ml unpreserved	A	7	5	Y	Absent	BOD-5210(2)
L1318438-05J	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318438-05K	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-05L	Plastic 250ml unpreserved	A	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-05M	Plastic 250ml NaOH preserved	A	>12	5	Y	Absent	TCN-9010(14)
L1318438-05N	Plastic 250ml unpreserved	A	N/A	5	Y	Absent	ALK-T-2320(14)
L1318438-06A	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-06B	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-06C	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318438-06D	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318438-06E	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318438-06F	Amber 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L1318438-06G	Plastic 1000ml unpreserved	A	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-06H	Glass 250ml unpreserved	A	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-06I	Plastic 500ml unpreserved	A	7	5	Y	Absent	BOD-5210(2)
L1318438-06J	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318438-06K	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-06L	Plastic 250ml unpreserved	A	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-06M	Plastic 250ml NaOH preserved	A	>12	5	Y	Absent	TCN-9010(14)
L1318438-06N	Plastic 250ml unpreserved	A	N/A	5	Y	Absent	ALK-T-2320(14)
L1318438-07A	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-07B	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-07C	Vial HCl preserved	A	N/A	5	Y	Absent	NYTCL-8260(14)
L1318438-07D	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318438-07E	Vial H2SO4 preserved	A	N/A	5	Y	Absent	TOC-5310(28)
L1318438-07F	Amber 500ml H2SO4 preserved	A	<2	5	Y	Absent	TPHENOL-420(28)
L1318438-07G	Plastic 1000ml unpreserved	A	7	5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-07H	Glass 250ml unpreserved	A	7	5	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-07I	Plastic 500ml unpreserved	A	7	5	Y	Absent	BOD-5210(2)
L1318438-07J	Plastic 500ml H2SO4 preserved	A	<2	5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318438-07K	Plastic 500ml HNO3 preserved	A	<2	5	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-07L	Plastic 250ml unpreserved	A	7	5	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-07M	Plastic 250ml NaOH preserved	A	>12	5	Y	Absent	TCN-9010(14)
L1318438-07N	Plastic 250ml unpreserved	A	N/A	5	Y	Absent	ALK-T-2320(14)
L1318438-08A	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-08B	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-08C	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-08D	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318438-08E	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318438-08F	Amber 500ml H2SO4 preserved	C	<2	6	Y	Absent	TPHENOL-420(28)
L1318438-08G	Plastic 1000ml unpreserved	C	7	6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-08H	Glass 250ml unpreserved	C	7	6	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-08I	Plastic 500ml unpreserved	C	7	6	Y	Absent	BOD-5210(2)
L1318438-08J	Plastic 500ml H2SO4 preserved	C	<2	6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318438-08K	Plastic 500ml HNO3 preserved	C	<2	6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-08L	Plastic 250ml unpreserved	C	7	6	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-08M	Plastic 250ml NaOH preserved	C	>12	6	Y	Absent	TCN-9010(14)
L1318438-08N	Plastic 250ml unpreserved	C	N/A	6	Y	Absent	ALK-T-2320(14)
L1318438-09A	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-09B	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-09C	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318438-09D	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318438-09E	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318438-09F	Amber 500ml H2SO4 preserved	C	<2	6	Y	Absent	TPHENOL-420(28)
L1318438-09G	Plastic 1000ml unpreserved	C	7	6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-09H	Glass 250ml unpreserved	C	7	6	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-09I	Plastic 500ml unpreserved	C	7	6	Y	Absent	BOD-5210(2)
L1318438-09J	Plastic 500ml H2SO4 preserved	C	<2	6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1318438-09K	Plastic 500ml HNO3 preserved	C	<2	6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-09L	Plastic 250ml unpreserved	C	7	6	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-09M	Plastic 250ml NaOH preserved	C	>12	6	Y	Absent	TCN-9010(14)
L1318438-09N	Plastic 250ml unpreserved	C	N/A	6	Y	Absent	ALK-T-2320(14)
L1318438-10A	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-10B	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-10C	Vial HCl preserved	C	N/A	6	Y	Absent	NYTCL-8260(14)
L1318438-10D	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318438-10E	Vial H2SO4 preserved	C	N/A	6	Y	Absent	TOC-5310(28)
L1318438-10F	Amber 500ml H2SO4 preserved	C	<2	6	Y	Absent	TPHENOL-420(28)
L1318438-10G	Plastic 1000ml unpreserved	C	7	6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1318438-10H	Glass 250ml unpreserved	C	7	6	Y	Absent	SALINITY(28),NO3-353(2)
L1318438-10I	Plastic 500ml unpreserved	C	7	6	Y	Absent	BOD-5210(2)
L1318438-10J	Plastic 500ml H2SO4 preserved	C	<2	6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1318438
Report Date: 09/26/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1318438-10K	Plastic 500ml HNO3 preserved	C	<2	6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1318438-10L	Plastic 250ml unpreserved	C	7	6	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1318438-10M	Plastic 250ml NaOH preserved	C	>12	6	Y	Absent	TCN-9010(14)
L1318438-10N	Plastic 250ml unpreserved	C	N/A	6	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1318438
Project Number:	Not Specified	**Report Date:**	09/26/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1318438
Project Number:	Not Specified	**Report Date:**	09/26/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1318438
Project Number: Not Specified **Report Date:** 09/26/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 9/19/13

ALPHA Job #: L1314438

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #:

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

Client Information

Client: CT Male Associates

Address: 50 Centruy Hill Drive

Latham, NY 12110

Phone: 518.786.7400

Fax: 518.786.7299

Email: k.moline@ctmale.com

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/25/13 Time:

Report Information — Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Other Project Specific Requirements/Comments/Detection Limits:

NYCRR Part 360 - Baseline Parameters
Metals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	Total # Bottles
14436-1	Trip Blank	—	—	GW	—	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	VOCs only	14
-2	MW-30	9/18/13	0750	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-3	MW-48		0820	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-4	MW-40		0850	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-5	MW-22		0925	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-6	MW-49		0950	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-7	MW-50		1020	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-8	MW-23		1055	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-9	MW-44		1115	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-10	MW-45		1150	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
					Container Type	P	P	P	A	P	V	P	P	V	P	A	-		
					Preservative	C	E	A	D	A	D	D	A	B	A	A	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

FORM NO: 01-01(I) (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	9/18/13 1715	[illegible]	9-18-13 1715
[illegible]	9-18-13 1845	[illegible]	9-18-13 1845
[illegible]	9-18-13 2130	[illegible]	9/18/13 2130
[illegible]	9/19/13 0015	Richard Beck	9/19/13 0015

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1317015
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	Not Specified
Report Date:	09/09/13

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1317015-01	MW-34	READING, NY	08/30/13 08:15
L1317015-02	MW-52	READING, NY	08/30/13 08:35
L1317015-03	TRIP BLANK	READING, NY	08/30/13 00:00

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT	**Lab Number:**	L1317015
Project Number:	Not Specified	**Report Date:**	09/09/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 09/09/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1317015
Report Date: 09/09/13

SAMPLE RESULTS

Lab ID:	L1317015-01	Date Collected:	08/30/13 08:15
Client ID:	MW-34	Date Received:	08/30/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/03/13 14:43		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1317015

Project Number: Not Specified **Report Date:** 09/09/13

SAMPLE RESULTS

Lab ID: L1317015-01 Date Collected: 08/30/13 08:15

Client ID: MW-34 Date Received: 08/30/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	5.6		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1317015
Report Date: 09/09/13

SAMPLE RESULTS

Lab ID:	L1317015-02	Date Collected:	08/30/13 08:35
Client ID:	MW-52	Date Received:	08/30/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/03/13 15:11		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1317015

Project Number: Not Specified **Report Date:** 09/09/13

SAMPLE RESULTS

Lab ID: L1317015-02 Date Collected: 08/30/13 08:35

Client ID: MW-52 Date Received: 08/30/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.4	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1317015
Report Date: 09/09/13

SAMPLE RESULTS

Lab ID:	L1317015-03	Date Collected:	08/30/13 00:00
Client ID:	TRIP BLANK	Date Received:	08/30/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	09/03/13 15:38		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1317015

Project Number: Not Specified **Report Date:** 09/09/13

SAMPLE RESULTS

Lab ID: L1317015-03 Date Collected: 08/30/13 00:00

Client ID: TRIP BLANK Date Received: 08/30/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.4	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/03/13 11:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG633381-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 09/03/13 11:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG633381-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG633381-1 WG633381-2								
Methylene chloride	111		97		70-130	13		20
1,1-Dichloroethane	113		97		70-130	15		20
Chloroform	110		96		70-130	14		20
2-Chloroethylvinyl ether	81		78		70-130	4		20
Carbon tetrachloride	115		100		63-132	14		20
1,2-Dichloropropane	108		94		70-130	14		20
Dibromochloromethane	98		89		63-130	10		20
1,1,2-Trichloroethane	96		90		70-130	6		20
Tetrachloroethene	106		91		70-130	15		20
Chlorobenzene	104		91		75-130	13		20
Trichlorofluoromethane	104		91		62-150	13		20
1,2-Dichloroethane	95		87		70-130	9		20
1,1,1-Trichloroethane	111		95		67-130	16		20
Bromodichloromethane	102		90		67-130	13		20
trans-1,3-Dichloropropene	100		91		70-130	9		20
cis-1,3-Dichloropropene	106		93		70-130	13		20
1,1-Dichloropropene	111		96		70-130	14		20
Bromoform	97		90		54-136	7		20
1,1,2,2-Tetrachloroethane	94		88		67-130	7		20
Benzene	115		98		70-130	16		20
Toluene	108		93		70-130	15		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG633381-1 WG633381-2								
Ethylbenzene	106		90		70-130	16		20
Chloromethane	110		93		64-130	17		20
Bromomethane	84		72		39-139	15		20
Vinyl chloride	105		90		55-140	15		20
Chloroethane	92		80		55-138	14		20
1,1-Dichloroethene	117		102		61-145	14		20
trans-1,2-Dichloroethene	117		100		70-130	16		20
Trichloroethene	110		96		70-130	14		20
1,2-Dichlorobenzene	100		88		70-130	13		20
1,3-Dichlorobenzene	105		90		70-130	15		20
1,4-Dichlorobenzene	101		88		70-130	14		20
Methyl tert butyl ether	99		93		63-130	6		20
p/m-Xylene	106		92		70-130	14		20
o-Xylene	104		88		70-130	17		20
cis-1,2-Dichloroethene	112		96		70-130	15		20
Dibromomethane	99		92		70-130	7		20
1,2,3-Trichloropropane	97		96		64-130	1		20
Acrylonitrile	103		104		70-130	1		20
Isopropyl Ether	107		95		70-130	12		20
tert-Butyl Alcohol	104		104		70-130	0		20
Styrene	104		89		70-130	16		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG633381-1 WG633381-2								
Dichlorodifluoromethane	96		85		36-147	12		20
Acetone	132		112		58-148	16		20
Carbon disulfide	112		97		51-130	14		20
2-Butanone	107		100		63-138	7		20
Vinyl acetate	98		92		70-130	6		20
4-Methyl-2-pentanone	82		80		59-130	2		20
2-Hexanone	80		75		57-130	6		20
Bromochloromethane	112		102		70-130	9		20
2,2-Dichloropropane	118		102		63-133	15		20
1,2-Dibromoethane	93		87		70-130	7		20
1,3-Dichloropropane	95		88		70-130	8		20
1,1,1,2-Tetrachloroethane	105		92		64-130	13		20
Bromobenzene	98		86		70-130	13		20
n-Butylbenzene	100		85		53-136	16		20
sec-Butylbenzene	105		88		70-130	18		20
tert-Butylbenzene	102		86		70-130	17		20
o-Chlorotoluene	107		91		70-130	16		20
p-Chlorotoluene	102		87		70-130	16		20
1,2-Dibromo-3-chloropropane	90		80		41-144	12		20
Hexachlorobutadiene	103		84		63-130	20		20
Isopropylbenzene	101		86		70-130	16		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG633381-1 WG633381-2								
p-Isopropyltoluene	104		88		70-130	17		20
Naphthalene	86		81		70-130	6		20
n-Propylbenzene	103		86		69-130	18		20
1,2,3-Trichlorobenzene	91		81		70-130	12		20
1,2,4-Trichlorobenzene	94		82		70-130	14		20
1,3,5-Trimethylbenzene	104		88		64-130	17		20
1,2,4-Trimethylbenzene	100		84		70-130	17		20
Methyl Acetate	97		98		70-130	1		20
Ethyl Acetate	92		90		70-130	2		20
Cyclohexane	119		105		70-130	13		20
Ethyl-Tert-Butyl-Ether	99		90		70-130	10		20
Tertiary-Amyl Methyl Ether	96		88		66-130	9		20
1,4-Dioxane	130		130		56-162	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	123		108		70-130	13		20
1,4-Diethylbenzene	100		82		70-130	20		20
4-Ethyltoluene	102		86		70-130	17		20
1,2,4,5-Tetramethylbenzene	102		85		70-130	18		20
Ethyl ether	110		100		59-134	10		20
trans-1,4-Dichloro-2-butene	83		80		70-130	4		20
Iodomethane	98		83		70-130	17		20
Methyl cyclohexane	115		102		70-130	12		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT

Project Number: Not Specified

Lab Number: L1317015

Report Date: 09/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG633381-1 WG633381-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		95		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	107		105		70-130

METALS

Project Name:	US SALT	**Lab Number:**	L1317015
Project Number:	Not Specified	**Report Date:**	09/09/13

SAMPLE RESULTS

Lab ID:	L1317015-01	Date Collected:	08/30/13 08:15
Client ID:	MW-34	Date Received:	08/30/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.189		mg/l	0.0100	0.00200	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Antimony, Total	0.00018	J	mg/l	0.00100	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00056		mg/l	0.00050	0.00020	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Barium, Total	0.08302		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Boron, Total	0.0672		mg/l	0.0300	0.0070	1	09/03/13 09:18	09/05/13 17:57	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00014	J	mg/l	0.00020	0.00005	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Calcium, Total	47.		mg/l	0.10	0.030	1	09/03/13 09:18	09/05/13 17:57	EPA 3005A	1,6010C	TT
Chromium, Total	0.00100		mg/l	0.00100	0.00020	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00013	J	mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Copper, Total	0.00032	J	mg/l	0.00100	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Iron, Total	0.767		mg/l	0.0500	0.0130	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Magnesium, Total	13.		mg/l	0.10	0.010	1	09/03/13 09:18	09/05/13 17:57	EPA 3005A	1,6010C	TT
Manganese, Total	0.09364		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:25	EPA 7470A	1,7470A	DR
Nickel, Total	0.00067		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Potassium, Total	5.59		mg/l	0.100	0.0270	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Selenium, Total	0.00043	J	mg/l	0.00500	0.00030	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Sodium, Total	8.42		mg/l	0.100	0.0150	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00033	J	mg/l	0.00500	0.00010	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Zinc, Total	0.01089		mg/l	0.01000	0.00120	1	09/03/13 09:18	09/04/13 21:11	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	09/03/13 09:18	09/05/13 17:57	EPA 3005A	1,6010C	TT

Project Name:	US SALT	**Lab Number:**	L1317015
Project Number:	Not Specified	**Report Date:**	09/09/13

SAMPLE RESULTS

Lab ID:	L1317015-02	Date Collected:	08/30/13 08:35
Client ID:	MW-52	Date Received:	08/30/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0945		mg/l	0.0100	0.00200	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00208		mg/l	0.00050	0.00020	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Barium, Total	0.08685		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Boron, Total	0.0713		mg/l	0.0300	0.0070	1	09/03/13 09:18	09/05/13 17:30	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Calcium, Total	56.		mg/l	0.10	0.030	1	09/03/13 09:18	09/05/13 17:30	EPA 3005A	1,6010C	TT
Chromium, Total	0.00084	J	mg/l	0.00100	0.00020	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00011	J	mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Copper, Total	0.00026	J	mg/l	0.00100	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Iron, Total	0.625		mg/l	0.0500	0.0130	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Magnesium, Total	15.		mg/l	0.10	0.010	1	09/03/13 09:18	09/05/13 17:30	EPA 3005A	1,6010C	TT
Manganese, Total	0.1044		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:27	EPA 7470A	1,7470A	DR
Nickel, Total	0.00049	J	mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Potassium, Total	1.66		mg/l	0.100	0.0270	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Selenium, Total	0.00042	J	mg/l	0.00500	0.00030	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Sodium, Total	9.03		mg/l	0.100	0.0150	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00013	J	mg/l	0.00500	0.00010	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Zinc, Total	0.01040		mg/l	0.01000	0.00120	1	09/03/13 09:18	09/04/13 21:17	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	200		mg/l	0.66	NA	1	09/03/13 09:18	09/05/13 17:30	EPA 3005A	1,6010C	TT

Project Name: US SALT **Lab Number:** L1317015

Project Number: Not Specified **Report Date:** 09/09/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG633031-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 10:31	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG633223-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Chromium, Total	0.00032	J	mg/l	0.00100	0.00020	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Iron, Total	0.0194	J	mg/l	0.0500	0.0130	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Manganese, Total	ND		mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Nickel, Total	0.00011	J	mg/l	0.00050	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Sodium, Total	0.0704	J	mg/l	0.100	0.0150	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	09/03/13 09:18	09/04/13 18:09	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Project Name: US SALT **Lab Number:** L1317015

Project Number: Not Specified **Report Date:** 09/09/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG633224-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	09/03/13 09:18	09/05/13 17:23	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	09/03/13 09:18	09/05/13 17:23	1,6010C	TT
Magnesium, Total	ND		mg/l	0.10	0.010	1	09/03/13 09:18	09/05/13 17:23	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-02 Batch: WG633224-1										
Hardness	ND		mg/l	0.66	NA	1	09/03/13 09:18	09/05/13 17:23	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG633031-2								
Mercury, Total	110		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG633223-2					
Aluminum, Total	100	-	80-120	-	
Antimony, Total	92	-	80-120	-	
Arsenic, Total	103	-	80-120	-	
Barium, Total	97	-	80-120	-	
Beryllium, Total	119	-	80-120	-	
Cadmium, Total	106	-	80-120	-	
Chromium, Total	101	-	80-120	-	
Cobalt, Total	101	-	80-120	-	
Copper, Total	103	-	80-120	-	
Iron, Total	120	-	80-120	-	
Lead, Total	96	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	104	-	80-120	-	
Potassium, Total	109	-	80-120	-	
Selenium, Total	100	-	80-120	-	
Silver, Total	93	-	80-120	-	
Sodium, Total	106	-	80-120	-	
Thallium, Total	96	-	80-120	-	
Vanadium, Total	98	-	80-120	-	
Zinc, Total	110	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG633224-2					
Boron, Total	113	-	80-120	-	
Calcium, Total	110	-	80-120	-	
Magnesium, Total	120	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 Batch: WG633224-2					
Hardness	115	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633031-4 QC Sample: L1316991-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00605	121		-	-		70-130	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633223-4 QC Sample: L1317112-14 Client ID: MS Sample										
Aluminum, Total	0.0320	2	2.07	102		-	-	80-120	-	20
Antimony, Total	0.00014J	0.5	0.5062	101		-	-	80-120	-	20
Arsenic, Total	0.01383	0.12	0.1377	103		-	-	80-120	-	20
Barium, Total	0.01325	2	1.941	96		-	-	80-120	-	20
Beryllium, Total	ND	0.05	0.04632	93		-	-	80-120	-	20
Cadmium, Total	ND	0.051	0.05165	101		-	-	80-120	-	20
Chromium, Total	0.00063J	0.2	0.2055	103		-	-	80-120	-	20
Cobalt, Total	0.00028J	0.5	0.5167	103		-	-	80-120	-	20
Copper, Total	0.00038J	0.25	0.2678	107		-	-	80-120	-	20
Iron, Total	21.0	1	25.1	**410**	Q	-	-	80-120	-	20
Lead, Total	ND	0.51	0.4738	93		-	-	80-120	-	20
Manganese, Total	0.1426	0.5	0.6632	104		-	-	80-120	-	20
Nickel, Total	0.00090	0.5	0.5179	103		-	-	80-120	-	20
Potassium, Total	1.88	10	13.0	111		-	-	80-120	-	20
Selenium, Total	ND	0.12	0.108	90		-	-	80-120	-	20
Silver, Total	ND	0.05	0.04586	92		-	-	80-120	-	20
Sodium, Total	35.8	10	50.5	**147**	Q	-	-	80-120	-	20
Thallium, Total	ND	0.12	0.1106	92		-	-	80-120	-	20
Vanadium, Total	0.00027J	0.5	0.5026	100		-	-	80-120	-	20
Zinc, Total	0.00556J	0.5	0.5105	102		-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633224-4 QC Sample: L1317015-02 Client ID: MW-52									
Boron, Total	0.0713	1	1.25	118	-	-	75-125	-	20
Calcium, Total	56.	10	65	90	-	-	75-125	-	20
Magnesium, Total	15.	10	25	100	-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633224-4 QC Sample: L1317015-02 Client ID: MW-52									
Hardness	200	66.2	260	91	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633031-3 QC Sample: L1316991-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633223-3 QC Sample: L1317112-14 Client ID: DUP Sample						
Aluminum, Total	0.0320	0.0344	mg/l	7		20
Antimony, Total	0.00014J	0.00015J	mg/l	NC		20
Arsenic, Total	0.01383	0.01384	mg/l	0		20
Barium, Total	0.01325	0.01329	mg/l	0		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00063J	0.00075J	mg/l	NC		20
Cobalt, Total	0.00028J	0.00031J	mg/l	NC		20
Copper, Total	0.00038J	0.00051J	mg/l	NC		20
Iron, Total	21.0	22.5	mg/l	7		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.1426	0.1534	mg/l	7		20
Nickel, Total	0.00090	0.00117	mg/l	**26**	Q	20
Potassium, Total	1.88	2.02	mg/l	7		20
Selenium, Total	ND	0.00034J	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	35.8	37.5	mg/l	5		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	0.00027J	0.00030J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633223-3 QC Sample: L1317112-14 Client ID: DUP Sample					
Zinc, Total	0.00556J	0.00621J	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633224-3 QC Sample: L1317015-02 Client ID: MW-52					
Boron, Total	0.0713	0.0708	mg/l	1	20
Calcium, Total	56.	56.	mg/l	0	20
Magnesium, Total	15.	15.	mg/l	0	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633224-3 QC Sample: L1317015-02 Client ID: MW-52					
Hardness	200	200	mg/l	0	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

SAMPLE RESULTS

Lab ID: L1317015-01
Client ID: MW-34
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/30/13 08:15
Date Received: 08/30/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/31/13 00:30	30,2120B	DE
Alkalinity, Total	166.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/31/13 00:04	30,2520B	EL
Solids, Total Dissolved	210		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/01/13 15:17	09/03/13 10:41	1,9010C/9012A	DE
Nitrogen, Ammonia	0.307		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 22:55	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 23:32	44,353.2	DB
Nitrogen, Total Kjeldahl	0.53		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:29	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.7	J	mg/l	10	3.5	1	09/03/13 15:30	09/03/13 19:01	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/31/13 01:00	09/04/13 21:55	30,5210B	DE
Total Organic Carbon	1.66		mg/l	1.00	0.052	2	-	09/03/13 08:52	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/04/13 10:00	09/04/13 15:49	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 22:45	08/30/13 23:00	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/04/13 04:04	44,300.0	AU
Chloride	2.68		mg/l	0.500	0.168	1	-	09/04/13 04:04	44,300.0	AU
Sulfate	16.8		mg/l	1.00	0.229	1	-	09/04/13 04:04	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

SAMPLE RESULTS

Lab ID: L1317015-02
Client ID: MW-52
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/30/13 08:35
Date Received: 08/30/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/31/13 00:30	30,2120B	DE
Alkalinity, Total	183.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/31/13 00:04	30,2520B	EL
Solids, Total Dissolved	240		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	09/01/13 15:17	09/03/13 10:42	1,9010C/9012A	DE
Nitrogen, Ammonia	0.166		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 22:57	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 23:35	44,353.2	DB
Nitrogen, Total Kjeldahl	0.40		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:30	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.8	J	mg/l	10	3.5	1	09/03/13 15:30	09/03/13 19:01	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/31/13 01:00	09/04/13 21:55	30,5210B	DE
Total Organic Carbon	1.32		mg/l	1.00	0.052	2	-	09/03/13 08:52	30,5310C	DW
Phenolics, Total	0.010	J	mg/l	0.030	0.009	1	09/04/13 10:00	09/04/13 15:50	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 22:45	08/30/13 23:00	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/04/13 04:16	44,300.0	AU
Chloride	1.73		mg/l	0.500	0.168	1	-	09/04/13 04:16	44,300.0	AU
Sulfate	32.1		mg/l	1.00	0.229	1	-	09/04/13 04:16	44,300.0	AU

Project Name: US SALT **Lab Number:** L1317015

Project Number: Not Specified **Report Date:** 09/09/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG632987-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 22:56	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG632994-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 22:45	08/30/13 22:59	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633016-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/31/13 01:00	09/04/13 21:55	30,5210B	DE
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633100-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 22:52	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633101-1										
Nitrogen, Total Kjeldahl	0.20	J	mg/l	0.30	0.020	1	08/31/13 22:45	09/04/13 23:14	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633119-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	09/01/13 15:17	09/03/13 10:30	1,9010C/9012A	DE
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633342-1										
Total Organic Carbon	ND		mg/l	0.500	0.026	1	-	09/03/13 08:52	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633391-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:57	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633418-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633514-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG633588-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/04/13 10:00	09/04/13 12:28	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG633773-1										
Bromide	ND		mg/l	0.050	0.010	1	-	09/03/13 20:48	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	09/03/13 20:48	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	09/03/13 20:48	44,300.0	AU

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT

Project Number: Not Specified

Lab Number: L1317015

Report Date: 09/09/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG632987-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG632994-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633000-1								
SALINITY	103		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633016-2								
BOD, 5 day	106		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633100-2								
Nitrogen, Ammonia	96		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633101-2								
Nitrogen, Total Kjeldahl	98		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633119-4 WG633119-5								
Cyanide, Total	94		102		80-120	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633342-2					
Total Organic Carbon	98	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633391-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633418-2					
Alkalinity, Total	104	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633514-2					
Solids, Total Dissolved	95	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG633588-2					
Phenolics, Total	99	-	82-111	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG633773-2					
Bromide	94	-	90-110	-	
Chloride	106	-	90-110	-	
Sulfate	99	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG632987-4 QC Sample: L1316953-01 Client ID: MS Sample												
Nitrogen, Nitrate	2.7	4	6.6	98		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG632994-4 QC Sample: L1317015-02 Client ID: MW-52												
Chromium, Hexavalent	ND	0.1	0.094	94		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633016-4 QC Sample: L1317015-01 Client ID: MW-34												
BOD, 5 day	ND	100	110	112		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633100-4 QC Sample: L1317015-01 Client ID: MW-34												
Nitrogen, Ammonia	0.307	4	4.10	95		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633101-4 QC Sample: L1316911-10 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.47	8	8.4	99		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633119-3 WG633119-2 QC Sample: L1317015-02 Client ID: MW-52												
Cyanide, Total	0.001J	0.2	0.199	100		0.197	98		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633342-4 QC Sample: L1316953-01 Client ID: MS Sample												
Total Organic Carbon	14.1	80	103	111		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633391-3 QC Sample: L1316911-10 Client ID: MS Sample												
Chemical Oxygen Demand	ND	47.6	46	97		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633418-3 QC Sample: L1316911-10 Client ID: MS Sample												
Alkalinity, Total	198.	100	297	99		-	-		86-116	-		10

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633588-4 QC Sample: L1316911-01 Client ID: MS Sample									
Phenolics, Total	0.020J	0.8	0.87	109	-	-	77-124	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633773-3 QC Sample: L1316917-05 Client ID: MS Sample									
Bromide	0.028J	0.4	0.378	94	-	-	77-119	-	20
Chloride	9.86	4	13.6	94	-	-	40-151	-	18
Sulfate	20.6	8	27.9	91	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG632987-3 QC Sample: L1316953-01 Client ID: DUP Sample						
Nitrogen, Nitrate	2.7	2.7	mg/l	0		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG632994-3 QC Sample: L1317015-01 Client ID: MW-34						
Chromium, Hexavalent	ND	0.004J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633000-2 QC Sample: L1317015-01 Client ID: MW-34						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633009-1 QC Sample: L1317015-01 Client ID: MW-34						
Color, Apparent	ND	ND	A.P.C.U.	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633016-3 QC Sample: L1316951-01 Client ID: DUP Sample						
BOD, 5 day	74.	86.	mg/l	15		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633100-3 QC Sample: L1317015-01 Client ID: MW-34						
Nitrogen, Ammonia	0.307	0.306	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633101-3 QC Sample: L1316911-10 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.47	0.60	mg/l	24		24
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633342-3 QC Sample: L1316953-01 Client ID: DUP Sample						
Total Organic Carbon	14.1	14.7	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633391-4 QC Sample: L1316911-10 Client ID: DUP Sample						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633418-4 QC Sample: L1316911-10 Client ID: DUP Sample					
Alkalinity, Total	198.	195.	mg CaCO3/L	2	10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633514-3 QC Sample: L1317015-01 Client ID: MW-34					
Solids, Total Dissolved	210	180	mg/l	15	20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633588-3 QC Sample: L1317015-02 Client ID: MW-52					
Phenolics, Total	0.010J	0.010J	mg/l	NC	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG633773-4 QC Sample: L1316917-05 Client ID: DUP Sample					
Bromide	0.028J	0.028J	mg/l	NC	20
Chloride	9.86	9.87	mg/l	0	18
Sulfate	20.6	20.5	mg/l	0	20

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1317015-01A	Vial HCl preserved	A	N/A	5.8	Y	Absent	NYTCL-8260(14)
L1317015-01B	Vial HCl preserved	A	N/A	5.8	Y	Absent	NYTCL-8260(14)
L1317015-01C	Vial HCl preserved	A	N/A	5.8	Y	Absent	NYTCL-8260(14)
L1317015-01D	Vial H2SO4 preserved	A	N/A	5.8	Y	Absent	TOC-5310(28)
L1317015-01E	Vial H2SO4 preserved	A	N/A	5.8	Y	Absent	TOC-5310(28)
L1317015-01F	Amber 500ml H2SO4 preserved	A	<2	5.8	Y	Absent	TPHENOL-420(28)
L1317015-01G	Plastic 1000ml unpreserved	A	7	5.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1317015-01H	Plastic 500ml unpreserved	A	7	5.8	Y	Absent	BOD-5210(2),NO3-353(2)
L1317015-01I	Plastic 250ml unpreserved	A	N/A	5.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1317015-01J	Plastic 500ml H2SO4 preserved	A	<2	5.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1317015-01K	Plastic 250ml HNO3 preserved	A	<2	5.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1317015-01L	Amber 250ml unpreserved	A	7	5.8	Y	Absent	SALINITY(28)
L1317015-01M	Plastic 250ml NaOH preserved	A	>12	5.8	Y	Absent	TCN-9010(14)
L1317015-01N	Plastic 250ml unpreserved	A	7	5.8	Y	Absent	ALK-T-2320(14)
L1317015-02A	Vial HCl preserved	A	N/A	5.8	Y	Absent	NYTCL-8260(14)
L1317015-02B	Vial HCl preserved	A	N/A	5.8	Y	Absent	NYTCL-8260(14)
L1317015-02C	Vial HCl preserved	A	N/A	5.8	Y	Absent	NYTCL-8260(14)
L1317015-02D	Vial H2SO4 preserved	A	N/A	5.8	Y	Absent	TOC-5310(28)
L1317015-02E	Vial H2SO4 preserved	A	N/A	5.8	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1317015
Report Date: 09/09/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1317015-02F	Amber 500ml H2SO4 preserved	A	<2	5.8	Y	Absent	TPHENOL-420(28)
L1317015-02G	Plastic 1000ml unpreserved	A	7	5.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1317015-02H	Plastic 500ml unpreserved	A	7	5.8	Y	Absent	BOD-5210(2),NO3-353(2)
L1317015-02I	Plastic 250ml unpreserved	A	N/A	5.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1317015-02J	Plastic 500ml H2SO4 preserved	A	<2	5.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1317015-02K	Plastic 250ml HNO3 preserved	A	<2	5.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1317015-02L	Amber 250ml unpreserved	A	7	5.8	Y	Absent	SALINITY(28)
L1317015-02M	Plastic 250ml NaOH preserved	A	>12	5.8	Y	Absent	TCN-9010(14)
L1317015-02N	Plastic 250ml unpreserved	A	7	5.8	Y	Absent	ALK-T-2320(14)
L1317015-03A	Vial HCl preserved	A	N/A	5.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1317015
Project Number:	Not Specified	**Report Date:**	09/09/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1317015
Project Number:	Not Specified	**Report Date:**	09/09/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1317015
Project Number: Not Specified **Report Date:** 09/09/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/30/13

ALPHA Job #: L1317015

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #:

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

Client Information

Client: CT Male Associates

Address: 50 Centruy Hill Drive

Latham, NY 12110

Phone: 518.786.7400

Fax: 518.786.7299

Email: k.moline@ctmale.com

☐ These samples have been Previously analyzed by Alpha

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/6/13 Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes	☒ No	Are MCP Analytical Methods Required?
☐ Yes	☒ No	Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NYCRR Part 360 - Baseline Parameters
Metals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	Total # Bottles
17015-01	MW-24	8/30/13	0815	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
02	MW-52	8/30/13	0835	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
03	Trip Blank			GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	VOC's only	14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14

Container Type	P	P	P	A	P	V	P	P	V	P	A	-
Preservative	C	E	A	D	A	D	D	A	B	A	A	-

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01(I) (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/30/13 1558	[signature]	8/30/13 1558
[signature]	8-30-13 1725	[signature]	8/30/13 1758
[signature]	8/30/13 2019	William McLendon	8/30/13 2019

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1316913
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	Not Specified
Report Date:	09/10/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316913-01	MW-39	READING, NY	08/29/13 13:00
L1316913-02	MW-29	READING, NY	08/29/13 13:30
L1316913-03	MW-54A	READING, NY	08/29/13 13:55
L1316913-04	MW-35A	READING, NY	08/29/13 15:30
L1316913-05	MW-53	READING, NY	08/29/13 15:50
L1316913-06	TRIP BLANK	READING, NY	08/29/13 00:00

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT	**Lab Number:**	L1316913
Project Number:	Not Specified	**Report Date:**	09/10/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG632728-1 Method Blank, associated with L1316913-01 through -05 has a concentration above the reporting limit for manganese. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no qualification of the results was performed.

The WG632729-4 MS recovery for calcium (60%), performed on L1316913-05, does not apply because the sample concentration is greater than four times the spike amount added.

The WG632728-3 Laboratory Duplicate RPD, performed on L1316913-05, is above the acceptance criteria for arsenic (33%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Nitrogen, Ammonia

L1316913-01 has an elevated detection limit due to limited sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative

Date: 09/10/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316913-01	Date Collected:	08/29/13 13:00
Client ID:	MW-39	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 12:08		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-01 Date Collected: 08/29/13 13:00

Client ID: MW-39 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.5	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316913-02	Date Collected:	08/29/13 13:30
Client ID:	MW-29	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 12:36		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-02 Date Collected: 08/29/13 13:30

Client ID: MW-29 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.1	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316913-03	Date Collected:	08/29/13 13:55
Client ID:	MW-54A	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 13:03		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-03 Date Collected: 08/29/13 13:55

Client ID: MW-54A Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.9	J	ug/l	5.0	1.0	1
Carbon disulfide	4.1	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-04
Client ID: MW-35A
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/30/13 13:30
Analyst: PD

Date Collected: 08/29/13 15:30
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-04 Date Collected: 08/29/13 15:30

Client ID: MW-35A Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	5.7		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316913-05	Date Collected:	08/29/13 15:50
Client ID:	MW-53	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 13:58		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-05 Date Collected: 08/29/13 15:50

Client ID: MW-53 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	4.1	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-06
Client ID: TRIP BLANK
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/30/13 14:25
Analyst: PD

Date Collected: 08/29/13 00:00
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-06 Date Collected: 08/29/13 00:00

Client ID: TRIP BLANK Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.8	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/30/13 10:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG632882-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/30/13 10:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-06 Batch: WG632882-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG632882-1 WG632882-2								
Methylene chloride	98		99		70-130	1		20
1,1-Dichloroethane	103		106		70-130	3		20
Chloroform	102		104		70-130	2		20
2-Chloroethylvinyl ether	75		78		70-130	4		20
Carbon tetrachloride	108		108		63-132	0		20
1,2-Dichloropropane	100		104		70-130	4		20
Dibromochloromethane	94		97		63-130	3		20
1,1,2-Trichloroethane	94		97		70-130	3		20
Tetrachloroethene	104		104		70-130	0		20
Chlorobenzene	100		102		75-130	2		20
Trichlorofluoromethane	98		98		62-150	0		20
1,2-Dichloroethane	89		91		70-130	2		20
1,1,1-Trichloroethane	104		105		67-130	1		20
Bromodichloromethane	94		96		67-130	2		20
trans-1,3-Dichloropropene	95		98		70-130	3		20
cis-1,3-Dichloropropene	97		100		70-130	3		20
1,1-Dichloropropene	105		106		70-130	1		20
Bromoform	95		98		54-136	3		20
1,1,2,2-Tetrachloroethane	93		95		67-130	2		20
Benzene	107		109		70-130	2		20
Toluene	103		106		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG632882-1 WG632882-2								
Ethylbenzene	101		102		70-130	1		20
Chloromethane	100		100		64-130	0		20
Bromomethane	67		65		39-139	3		20
Vinyl chloride	96		96		55-140	0		20
Chloroethane	86		86		55-138	0		20
1,1-Dichloroethene	108		110		61-145	2		20
trans-1,2-Dichloroethene	107		110		70-130	3		20
Trichloroethene	102		104		70-130	2		20
1,2-Dichlorobenzene	96		99		70-130	3		20
1,3-Dichlorobenzene	101		105		70-130	4		20
1,4-Dichlorobenzene	97		100		70-130	3		20
Methyl tert butyl ether	93		95		63-130	2		20
p/m-Xylene	102		104		70-130	2		20
o-Xylene	98		100		70-130	2		20
cis-1,2-Dichloroethene	102		106		70-130	4		20
Dibromomethane	92		96		70-130	4		20
1,2,3-Trichloropropane	95		100		64-130	5		20
Acrylonitrile	98		101		70-130	3		20
Isopropyl Ether	99		102		70-130	3		20
tert-Butyl Alcohol	91		96		70-130	5		20
Styrene	97		100		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG632882-1 WG632882-2								
Dichlorodifluoromethane	94		94		36-147	0		20
Acetone	92		89		58-148	3		20
Carbon disulfide	105		106		51-130	1		20
2-Butanone	86		85		63-138	1		20
Vinyl acetate	91		93		70-130	2		20
4-Methyl-2-pentanone	76		80		59-130	5		20
2-Hexanone	69		71		57-130	3		20
Bromochloromethane	105		107		70-130	2		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	89		93		70-130	4		20
1,3-Dichloropropane	92		96		70-130	4		20
1,1,1,2-Tetrachloroethane	100		102		64-130	2		20
Bromobenzene	96		99		70-130	3		20
n-Butylbenzene	97		100		53-136	3		20
sec-Butylbenzene	103		105		70-130	2		20
tert-Butylbenzene	101		104		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	99		102		70-130	3		20
1,2-Dibromo-3-chloropropane	86		86		41-144	0		20
Hexachlorobutadiene	97		100		63-130	3		20
Isopropylbenzene	100		102		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG632882-1 WG632882-2								
p-Isopropyltoluene	102		105		70-130	3		20
Naphthalene	84		86		70-130	2		20
n-Propylbenzene	100		102		69-130	2		20
1,2,3-Trichlorobenzene	87		88		70-130	1		20
1,2,4-Trichlorobenzene	89		92		70-130	3		20
1,3,5-Trimethylbenzene	101		105		64-130	4		20
1,2,4-Trimethylbenzene	96		100		70-130	4		20
Methyl Acetate	90		94		70-130	4		20
Ethyl Acetate	86		88		70-130	2		20
Cyclohexane	115		115		70-130	0		20
Ethyl-Tert-Butyl-Ether	92		96		70-130	4		20
Tertiary-Amyl Methyl Ether	89		92		66-130	3		20
1,4-Dioxane	114		116		56-162	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		116		70-130	0		20
1,4-Diethylbenzene	96		99		70-130	3		20
4-Ethyltoluene	100		103		70-130	3		20
1,2,4,5-Tetramethylbenzene	97		101		70-130	4		20
Ethyl ether	100		102		59-134	2		20
trans-1,4-Dichloro-2-butene	79		80		70-130	1		20
Iodomethane	86		90		70-130	5		20
Methyl cyclohexane	111		110		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-06 Batch: WG632882-1 WG632882-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	99		99		70-130

METALS

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-01
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 13:00
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	2.76		mg/l	0.200	0.0400	20	08/30/13 07:07	09/03/13 20:54	EPA 3005A	1,6020A	BM
Antimony, Total	0.00016	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00304		mg/l	0.00050	0.00020	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Barium, Total	0.04322		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00018	J	mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Boron, Total	0.0165	J	mg/l	0.0300	0.0070	1	08/30/13 07:07	09/04/13 17:19	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00022		mg/l	0.00020	0.00005	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Calcium, Total	47.		mg/l	0.10	0.030	1	08/30/13 07:07	09/04/13 17:19	EPA 3005A	1,6010C	TT
Chromium, Total	0.00343		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00322		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Copper, Total	0.00653		mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Iron, Total	5.48		mg/l	0.0500	0.0130	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Lead, Total	0.00413		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Magnesium, Total	11.		mg/l	0.10	0.010	1	08/30/13 07:07	09/04/13 17:19	EPA 3005A	1,6010C	TT
Manganese, Total	0.5362		mg/l	0.01000	0.00200	20	08/30/13 07:07	09/03/13 20:54	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/13 08:10	08/30/13 12:01	EPA 7470A	1,7470A	DR
Nickel, Total	0.00639		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Potassium, Total	1.00		mg/l	0.100	0.0270	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Selenium, Total	0.00043	J	mg/l	0.00500	0.00030	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Silver, Total	0.00026	J	mg/l	0.00040	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Sodium, Total	2.53		mg/l	0.100	0.0150	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Thallium, Total	0.00006	J	mg/l	0.00050	0.00003	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00336	J	mg/l	0.00500	0.00010	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Zinc, Total	0.02715		mg/l	0.01000	0.00120	1	08/30/13 07:07	09/03/13 21:37	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	160		mg/l	0.66	NA	1	08/30/13 07:07	09/04/13 17:19	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-02
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 13:30
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	5.78		mg/l	0.200	0.0400	20	08/30/13 07:07	09/03/13 21:00	EPA 3005A	1,6020A	BM
Antimony, Total	0.00014	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00786		mg/l	0.00050	0.00020	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Barium, Total	0.1412		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Beryllium, Total	0.00030	J	mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Boron, Total	0.0832		mg/l	0.0300	0.0070	1	08/30/13 07:07	09/04/13 17:23	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Calcium, Total	53.		mg/l	0.10	0.030	1	08/30/13 07:07	09/04/13 17:23	EPA 3005A	1,6010C	TT
Chromium, Total	0.00857		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00463		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Copper, Total	0.00410		mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Iron, Total	12.0		mg/l	0.0500	0.0130	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Lead, Total	0.00369		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Magnesium, Total	15.		mg/l	0.10	0.010	1	08/30/13 07:07	09/04/13 17:23	EPA 3005A	1,6010C	TT
Manganese, Total	0.2746		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/13 08:10	08/30/13 12:07	EPA 7470A	1,7470A	DR
Nickel, Total	0.01086		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Potassium, Total	2.82		mg/l	0.100	0.0270	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Selenium, Total	0.00047	J	mg/l	0.00500	0.00030	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Silver, Total	0.00057		mg/l	0.00040	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Sodium, Total	9.35		mg/l	0.100	0.0150	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Thallium, Total	0.00004	J	mg/l	0.00050	0.00003	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00691		mg/l	0.00500	0.00010	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Zinc, Total	0.03171		mg/l	0.01000	0.00120	1	08/30/13 07:07	09/03/13 21:44	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	190		mg/l	0.66	NA	1	08/30/13 07:07	09/04/13 17:23	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-03
Client ID: MW-54A
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 13:55
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0622		mg/l	0.0100	0.00200	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Antimony, Total	0.00069	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00086		mg/l	0.00050	0.00020	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Barium, Total	0.1155		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Boron, Total	0.181		mg/l	0.0300	0.0070	1	08/30/13 07:07	09/04/13 17:27	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00020		mg/l	0.00020	0.00005	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Calcium, Total	40.		mg/l	0.10	0.030	1	08/30/13 07:07	09/04/13 17:27	EPA 3005A	1,6010C	TT
Chromium, Total	0.00054	J	mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00011	J	mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Copper, Total	0.00035	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Iron, Total	0.412		mg/l	0.0500	0.0130	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Magnesium, Total	10.		mg/l	0.10	0.010	1	08/30/13 07:07	09/04/13 17:27	EPA 3005A	1,6010C	TT
Manganese, Total	0.07215		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/13 08:10	08/30/13 12:09	EPA 7470A	1,7470A	DR
Nickel, Total	0.00077		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Potassium, Total	2.98		mg/l	0.100	0.0270	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Silver, Total	0.00021	J	mg/l	0.00040	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Sodium, Total	17.8		mg/l	0.100	0.0150	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00019	J	mg/l	0.00500	0.00010	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Zinc, Total	0.01082		mg/l	0.01000	0.00120	1	08/30/13 07:07	09/03/13 22:18	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	140		mg/l	0.66	NA	1	08/30/13 07:07	09/04/13 17:27	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-04
Client ID: MW-35A
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 15:30
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.644		mg/l	0.200	0.0400	20	08/30/13 07:07	09/03/13 21:13	EPA 3005A	1,6020A	BM
Antimony, Total	0.00027	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00035	J	mg/l	0.00050	0.00020	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Barium, Total	0.07481		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Boron, Total	0.0522		mg/l	0.0300	0.0070	1	08/30/13 07:07	09/04/13 17:31	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Calcium, Total	45.		mg/l	0.10	0.030	1	08/30/13 07:07	09/04/13 17:31	EPA 3005A	1,6010C	TT
Chromium, Total	0.00150		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00053		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Copper, Total	0.00055	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Iron, Total	1.60		mg/l	0.0500	0.0130	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Lead, Total	0.00054	J	mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Magnesium, Total	11.		mg/l	0.10	0.010	1	08/30/13 07:07	09/04/13 17:31	EPA 3005A	1,6010C	TT
Manganese, Total	0.1334		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/13 08:10	08/30/13 12:11	EPA 7470A	1,7470A	DR
Nickel, Total	0.00146		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Potassium, Total	5.33		mg/l	0.100	0.0270	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Silver, Total	0.00028	J	mg/l	0.00040	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Sodium, Total	5.75		mg/l	0.100	0.0150	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00084	J	mg/l	0.00500	0.00010	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Zinc, Total	0.01192		mg/l	0.01000	0.00120	1	08/30/13 07:07	09/03/13 22:24	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	160		mg/l	0.66	NA	1	08/30/13 07:07	09/04/13 17:31	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-05
Client ID: MW-53
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 15:50
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.584		mg/l	0.200	0.0400	20	08/30/13 07:07	09/03/13 20:10	EPA 3005A	1,6020A	BM
Antimony, Total	0.00010	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00077		mg/l	0.00050	0.00020	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Barium, Total	0.08315		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Boron, Total	0.0292	J	mg/l	0.0300	0.0070	1	08/30/13 07:07	09/03/13 13:46	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Calcium, Total	56.		mg/l	0.10	0.030	1	08/30/13 07:07	09/03/13 13:46	EPA 3005A	1,6010C	TT
Chromium, Total	0.00132		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00046	J	mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Copper, Total	0.00045	J	mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Iron, Total	1.54		mg/l	0.0500	0.0130	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Lead, Total	0.00033	J	mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Magnesium, Total	14.		mg/l	0.10	0.010	1	08/30/13 07:07	09/03/13 13:46	EPA 3005A	1,6010C	TT
Manganese, Total	0.08154		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/13 08:10	08/30/13 12:13	EPA 7470A	1,7470A	DR
Nickel, Total	0.00141		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Potassium, Total	1.44		mg/l	0.100	0.0270	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Silver, Total	0.00026	J	mg/l	0.00040	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Sodium, Total	4.71		mg/l	0.100	0.0150	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00089	J	mg/l	0.00500	0.00010	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Zinc, Total	0.01268		mg/l	0.01000	0.00120	1	08/30/13 07:07	09/03/13 21:25	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	200		mg/l	0.66	NA	1	08/30/13 07:07	09/03/13 13:46	EPA 3005A	1,6010C	TT

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG632728-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Chromium, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Manganese, Total	0.00078		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Nickel, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Silver, Total	0.00012	J	mg/l	0.00040	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Sodium, Total	0.0286	J	mg/l	0.100	0.0150	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	08/30/13 07:07	09/03/13 19:56	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG632729-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	08/30/13 07:07	09/03/13 13:38	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	08/30/13 07:07	09/03/13 13:38	1,6010C	TT
Magnesium, Total	ND		mg/l	0.10	0.010	1	08/30/13 07:07	09/03/13 13:38	1,6010C	TT

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-05 Batch: WG632729-1										
Hardness	ND		mg/l	0.66	NA	1	08/30/13 07:07	09/03/13 13:38	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-05 Batch: WG632738-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/30/13 08:10	08/30/13 11:52	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG632728-2								
Aluminum, Total	104		-		80-120	-		
Antimony, Total	88		-		80-120	-		
Arsenic, Total	107		-		80-120	-		
Barium, Total	96		-		80-120	-		
Beryllium, Total	98		-		80-120	-		
Cadmium, Total	106		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	101		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	96		-		80-120	-		
Lead, Total	97		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	98		-		80-120	-		
Potassium, Total	102		-		80-120	-		
Selenium, Total	107		-		80-120	-		
Silver, Total	84		-		80-120	-		
Sodium, Total	111		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	97		-		80-120	-		
Zinc, Total	107		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG632729-2					
Boron, Total	110	-	80-120	-	
Calcium, Total	110	-	80-120	-	
Magnesium, Total	110	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-05 Batch: WG632729-2					
Hardness	110	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-05 Batch: WG632738-2					
Mercury, Total	109	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632728-4 QC Sample: L1316913-05 Client ID: MW-53												
Aluminum, Total	0.584	2	2.59	100		-	-		80-120	-		20
Antimony, Total	0.00010J	0.5	0.4404	88		-	-		80-120	-		20
Arsenic, Total	0.00077	0.12	0.1284	106		-	-		80-120	-		20
Barium, Total	0.08315	2	1.981	95		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.05122	102		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.05258	103		-	-		80-120	-		20
Chromium, Total	0.00132	0.2	0.1955	97		-	-		80-120	-		20
Cobalt, Total	0.00046J	0.5	0.5060	101		-	-		80-120	-		20
Copper, Total	0.00045J	0.25	0.2480	99		-	-		80-120	-		20
Iron, Total	1.54	1	2.38	84		-	-		80-120	-		20
Lead, Total	0.00033J	0.51	0.4890	96		-	-		80-120	-		20
Manganese, Total	0.08154	0.5	0.5736	98		-	-		80-120	-		20
Nickel, Total	0.00141	0.5	0.4934	98		-	-		80-120	-		20
Potassium, Total	1.44	10	11.4	100		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.124	103		-	-		80-120	-		20
Silver, Total	0.00026J	0.05	0.04272	85		-	-		80-120	-		20
Sodium, Total	4.71	10	15.7	110		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1188	99		-	-		80-120	-		20
Vanadium, Total	0.00089J	0.5	0.4866	97		-	-		80-120	-		20
Zinc, Total	0.01268	0.5	0.5422	106		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632729-4 QC Sample: L1316913-05 Client ID: MW-53										
Boron, Total	0.0292J	1	1.23	123		-	-	75-125	-	20
Calcium, Total	56.	10	62	**60**	Q	-	-	75-125	-	20
Magnesium, Total	14.	10	24	100		-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632729-4 QC Sample: L1316913-05 Client ID: MW-53										
Hardness	200	66.2	250	76		-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632738-4 QC Sample: L1316913-01 Client ID: MW-39										
Mercury, Total	ND	0.005	0.00648	130		-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632728-3 QC Sample: L1316913-05 Client ID: MW-53						
Aluminum, Total	0.584	0.504	mg/l	14		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632728-3 QC Sample: L1316913-05 Client ID: MW-53						
Antimony, Total	0.00010J	0.00010J	mg/l	NC		20
Arsenic, Total	0.00077	0.00055	mg/l	**33**	Q	20
Barium, Total	0.08315	0.07534	mg/l	10		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00132	0.00126	mg/l	5		20
Cobalt, Total	0.00046J	0.00046J	mg/l	NC		20
Copper, Total	0.00045J	0.00048J	mg/l	NC		20
Iron, Total	1.54	1.44	mg/l	7		20
Lead, Total	0.00033J	0.00030J	mg/l	NC		20
Manganese, Total	0.08154	0.07380	mg/l	10		20
Nickel, Total	0.00141	0.00131	mg/l	7		20
Potassium, Total	1.44	1.31	mg/l	9		20
Selenium, Total	ND	0.00030J	mg/l	NC		20
Silver, Total	0.00026J	0.00023J	mg/l	NC		20
Sodium, Total	4.71	4.36	mg/l	8		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	0.00089J	0.00068J	mg/l	NC		20
Zinc, Total	0.01268	0.01161	mg/l	9		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632729-3 QC Sample: L1316913-05 Client ID: MW-53					
Boron, Total	0.0292J	0.0263J	mg/l	NC	20
Calcium, Total	56.	50.	mg/l	11	20
Magnesium, Total	14.	12.	mg/l	15	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632729-3 QC Sample: L1316913-05 Client ID: MW-53					
Hardness	200	180	mg/l	11	20
Total Metals - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632738-3 QC Sample: L1316913-01 Client ID: MW-39					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-01
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 13:00
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	220		A.P.C.U.	50	50.	10	-	08/30/13 03:22	30,2120B	EL
Alkalinity, Total	160.		mg CaCO3/L	2.00	NA	1	-	08/30/13 08:47	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	230		mg/l	10	4.4	1	-	08/30/13 11:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:50	1,9010C/9012A	JO
Nitrogen, Ammonia	ND		mg/l	0.750	0.315	10	09/03/13 10:28	09/04/13 21:36	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:24	44,353.2	DB
Nitrogen, Total Kjeldahl	0.60		mg/l	0.30	0.060	1	08/30/13 11:15	09/04/13 20:18	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.8	J	mg/l	10	3.5	1	09/06/13 19:00	09/06/13 21:32	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 04:40	09/03/13 21:05	30,5210B	DE
Total Organic Carbon	1.43		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/06/13 09:15	09/06/13 11:44	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:45	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/06/13 00:43	44,300.0	AU
Chloride	1.35		mg/l	0.500	0.168	1	-	09/06/13 00:43	44,300.0	AU
Sulfate	19.9		mg/l	1.00	0.229	1	-	09/06/13 00:43	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-02
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 13:30
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	35		A.P.C.U.	25	25.	5	-	08/30/13 03:22	30,2120B	EL
Alkalinity, Total	174.		mg CaCO3/L	2.00	NA	1	-	08/30/13 08:47	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	240		mg/l	10	4.4	1	-	08/30/13 11:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:52	1,9010C/9012A	JO
Nitrogen, Ammonia	0.101		mg/l	0.075	0.031	1	09/03/13 10:28	09/04/13 21:33	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:24	44,353.2	DB
Nitrogen, Total Kjeldahl	0.71		mg/l	0.30	0.060	1	08/30/13 11:15	09/04/13 20:21	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	51.		mg/l	10	3.5	1	09/06/13 19:00	09/06/13 21:32	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 04:40	09/03/13 21:05	30,5210B	DE
Total Organic Carbon	1.40		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/06/13 09:15	09/06/13 11:45	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:46	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/06/13 00:55	44,300.0	AU
Chloride	1.87		mg/l	0.500	0.168	1	-	09/06/13 00:55	44,300.0	AU
Sulfate	31.2		mg/l	1.00	0.229	1	-	09/06/13 00:55	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-03
Client ID: MW-54A
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 13:55
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:22	30,2120B	EL
Alkalinity, Total	186.		mg CaCO3/L	2.00	NA	1	-	08/30/13 08:47	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	230		mg/l	10	4.4	1	-	08/30/13 11:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:53	1,9010C/9012A	JO
Nitrogen, Ammonia	0.175		mg/l	0.075	0.031	1	09/03/13 10:28	09/04/13 21:34	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:25	44,353.2	DB
Nitrogen, Total Kjeldahl	0.36		mg/l	0.30	0.060	1	08/30/13 11:15	09/04/13 20:24	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/06/13 19:00	09/06/13 21:33	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 04:40	09/03/13 21:05	30,5210B	DE
Total Organic Carbon	1.18		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/06/13 09:15	09/06/13 11:46	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:46	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/06/13 01:07	44,300.0	AU
Chloride	1.16		mg/l	0.500	0.168	1	-	09/06/13 01:07	44,300.0	AU
Sulfate	20.4		mg/l	1.00	0.229	1	-	09/06/13 01:07	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-04
Client ID: MW-35A
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 15:30
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:22	30,2120B	EL
Alkalinity, Total	163.		mg CaCO3/L	2.00	NA	1	-	08/30/13 08:47	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	220		mg/l	10	4.4	1	-	08/30/13 11:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:55	1,9010C/9012A	JO
Nitrogen, Ammonia	0.196		mg/l	0.075	0.031	1	09/03/13 10:28	09/04/13 21:34	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:26	44,353.2	DB
Nitrogen, Total Kjeldahl	0.57		mg/l	0.30	0.060	1	08/30/13 11:15	09/04/13 20:25	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/06/13 19:00	09/06/13 21:33	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 04:40	09/03/13 21:05	30,5210B	DE
Total Organic Carbon	1.28		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.010	J	mg/l	0.030	0.009	1	09/06/13 09:15	09/06/13 11:46	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:46	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/06/13 02:55	44,300.0	AU
Chloride	1.53		mg/l	0.500	0.168	1	-	09/06/13 02:55	44,300.0	AU
Sulfate	24.9		mg/l	1.00	0.229	1	-	09/06/13 02:55	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316913-05
Client ID: MW-53
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 15:50
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:22	30,2120B	EL
Alkalinity, Total	160.		mg CaCO3/L	2.00	NA	1	-	08/30/13 08:47	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	230		mg/l	10	4.4	1	-	08/30/13 11:45	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:56	1,9010C/9012A	JO
Nitrogen, Ammonia	0.047	J	mg/l	0.075	0.031	1	09/03/13 10:28	09/04/13 21:35	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:27	44,353.2	DB
Nitrogen, Total Kjeldahl	0.18	J	mg/l	0.30	0.060	1	08/30/13 11:15	09/04/13 20:26	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/06/13 19:00	09/06/13 21:33	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 04:40	09/03/13 21:05	30,5210B	DE
Total Organic Carbon	1.30		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/06/13 09:15	09/06/13 11:47	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:47	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/06/13 03:07	44,300.0	AU
Chloride	1.62		mg/l	0.500	0.168	1	-	09/06/13 03:07	44,300.0	AU
Sulfate	29.4		mg/l	1.00	0.229	1	-	09/06/13 03:07	44,300.0	AU

Project Name: US SALT **Lab Number:** L1316913

Project Number: Not Specified **Report Date:** 09/10/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632698-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 04:40	09/03/13 21:05	30,5210B	DE
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632703-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:12	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632710-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:45	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632731-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	08/30/13 11:45	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632787-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:43	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632816-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.031	1	09/03/13 10:28	09/04/13 21:18	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632832-1										
Nitrogen, Total Kjeldahl	0.11	J	mg/l	0.30	0.020	1	08/30/13 11:15	09/04/13 20:16	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632860-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	08/30/13 08:47	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG633632-1										
Total Organic Carbon	ND		mg/l	0.500	0.026	1	-	09/04/13 07:23	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG634193-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/06/13 09:15	09/06/13 11:43	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG634347-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/06/13 19:00	09/06/13 21:31	44,410.4	TL
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-05 Batch: WG634723-1										
Bromide	0.020	J	mg/l	0.050	0.010	1	-	09/05/13 18:55	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	09/05/13 18:55	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	09/05/13 18:55	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632698-2								
BOD, 5 day	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632703-2								
Nitrogen, Nitrate	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632710-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632713-1								
SALINITY	102		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632731-2								
Solids, Total Dissolved	97		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632787-2 WG632787-3								
Cyanide, Total	102		103		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632816-2								
Nitrogen, Ammonia	92		-		80-120	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632832-2					
Nitrogen, Total Kjeldahl	95	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632860-2					
Alkalinity, Total	103	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG633632-2					
Total Organic Carbon	93	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG634193-2					
Phenolics, Total	105	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG634347-2					
Chemical Oxygen Demand	98	-	95-105	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 Batch: WG634723-2					
Bromide	92	-	90-110	-	
Chloride	105	-	90-110	-	
Sulfate	101	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632698-4 QC Sample: L1316815-01 Client ID: MS Sample												
BOD, 5 day	13.	100	110	97		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632703-4 QC Sample: L1316911-01 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	3.9	98		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632710-4 QC Sample: L1316913-04 Client ID: MW-35A												
Chromium, Hexavalent	ND	0.1	0.099	99		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632787-4 WG632787-5 QC Sample: L1316913-03 Client ID: MW-54A												
Cyanide, Total	ND	0.2	0.194	97		0.192	96		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632816-4 QC Sample: L1316917-02 Client ID: MS Sample												
Nitrogen, Ammonia	0.168	4	3.92	94		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632832-4 QC Sample: L1316913-01 Client ID: MW-39												
Nitrogen, Total Kjeldahl	0.60	8	7.8	90		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632860-3 QC Sample: L1316879-03 Client ID: MS Sample												
Alkalinity, Total	105.	100	195	90		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG633632-4 QC Sample: L1316911-03 Client ID: MS Sample												
Total Organic Carbon	1.98	8	10.2	103		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG634193-4 QC Sample: L1316913-04 Client ID: MW-35A												
Phenolics, Total	0.010J	0.8	0.88	110		-	-		77-124	-		12

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG634347-3 QC Sample: L1316913-03 Client ID: MW-54A									
Chemical Oxygen Demand	ND	47.6	49	103	-	-	80-120	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG634723-3 QC Sample: L1316911-04 Client ID: MS Sample									
Bromide	ND	0.4	0.334	84	-	-	77-119	-	20
Chloride	2.92	4	6.91	100	-	-	40-151	-	18
Sulfate	45.7	8	52.0	79	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632698-3 QC Sample: L1316815-02 Client ID: DUP Sample						
BOD, 5 day	240	230	mg/l	4		35
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632703-3 QC Sample: L1316911-01 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632710-3 QC Sample: L1316913-03 Client ID: MW-54A						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632713-2 QC Sample: L1316911-01 Client ID: DUP Sample						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632715-1 QC Sample: L1316913-01 Client ID: MW-39						
Color, Apparent	220	220	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632731-3 QC Sample: L1316713-01 Client ID: DUP Sample						
Solids, Total Dissolved	330	310	mg/l	6		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632816-3 QC Sample: L1316917-01 Client ID: DUP Sample						
Nitrogen, Ammonia	1.19	1.15	mg/l	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632832-3 QC Sample: L1316913-01 Client ID: MW-39						
Nitrogen, Total Kjeldahl	0.60	0.58	mg/l	3		24
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632860-4 QC Sample: L1316879-03 Client ID: DUP Sample						
Alkalinity, Total	105.	102.	mg CaCO3/L	3		10

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG633632-3 QC Sample: L1316911-01 Client ID: DUP Sample					
Total Organic Carbon	1.32	1.29	mg/l	2	20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG634193-3 QC Sample: L1316913-03 Client ID: MW-54A					
Phenolics, Total	0.030	0.020J	mg/l	NC	12
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG634347-4 QC Sample: L1316913-03 Client ID: MW-54A					
Chemical Oxygen Demand	ND	ND	mg/l	NC	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG634723-4 QC Sample: L1316911-04 Client ID: DUP Sample					
Bromide	ND	ND	mg/l	NC	20
Chloride	2.92	2.94	mg/l	1	18
Sulfate	45.7	45.7	mg/l	0	20

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
D	Absent
A	Absent
E	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316913-01A	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316913-01B	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316913-01C	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316913-01D	Vial H2SO4 preserved	D	N/A	3.3	Y	Absent	TOC-5310(28)
L1316913-01E	Vial H2SO4 preserved	D	N/A	3.3	Y	Absent	TOC-5310(28)
L1316913-01F	Amber 1000ml H2SO4 preserved	D	<2	3.3	Y	Absent	TPHENOL-420(28)
L1316913-01G	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316913-01H	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	SALINITY(28),NO3-353(2)
L1316913-01I	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	BOD-5210(2)
L1316913-01J	Plastic 500ml H2SO4 preserved	D	<2	3.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316913-01K	Plastic 500ml HNO3 preserved	D	<2	3.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316913-01L	Plastic 250ml unpreserved	D	7	3.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316913-01M	Plastic 250ml NaOH preserved	D	>12	3.3	Y	Absent	TCN-9010(14)
L1316913-01N	Plastic 250ml unpreserved	D	N/A	3.3	Y	Absent	ALK-T-2320(14)
L1316913-02A	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316913-02B	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316913-02C	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316913-02D	Vial H2SO4 preserved	D	N/A	3.3	Y	Absent	TOC-5310(28)
L1316913-02E	Vial H2SO4 preserved	D	N/A	3.3	Y	Absent	TOC-5310(28)
L1316913-02F	Amber 1000ml H2SO4 preserved	D	<2	3.3	Y	Absent	TPHENOL-420(28)
L1316913-02G	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316913-02H	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	SALINITY(28),NO3-353(2)
L1316913-02I	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	BOD-5210(2)
L1316913-02J	Plastic 500ml H2SO4 preserved	D	<2	3.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316913-02K	Plastic 500ml HNO3 preserved	D	<2	3.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316913-02L	Plastic 250ml unpreserved	D	7	3.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316913-02M	Plastic 250ml NaOH preserved	D	>12	3.3	Y	Absent	TCN-9010(14)
L1316913-02N	Plastic 250ml unpreserved	D	N/A	3.3	Y	Absent	ALK-T-2320(14)
L1316913-03A	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-03B	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-03C	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-03D	Vial H2SO4 preserved	E	N/A	2.6	Y	Absent	TOC-5310(28)
L1316913-03E	Vial H2SO4 preserved	E	N/A	2.6	Y	Absent	TOC-5310(28)
L1316913-03F	Amber 1000ml H2SO4 preserved	E	<2	2.6	Y	Absent	TPHENOL-420(28)
L1316913-03G	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316913-03H	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	SALINITY(28),NO3-353(2)
L1316913-03I	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	BOD-5210(2)
L1316913-03J	Plastic 500ml H2SO4 preserved	E	<2	2.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316913-03K	Plastic 500ml HNO3 preserved	E	<2	2.6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316913-03L	Plastic 250ml unpreserved	E	7	2.6	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316913-03M	Plastic 250ml NaOH preserved	E	>12	2.6	Y	Absent	TCN-9010(14)
L1316913-03N	Plastic 250ml unpreserved	E	N/A	2.6	Y	Absent	ALK-T-2320(14)
L1316913-04A	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-04B	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-04C	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-04D	Vial H2SO4 preserved	E	N/A	2.6	Y	Absent	TOC-5310(28)
L1316913-04E	Vial H2SO4 preserved	E	N/A	2.6	Y	Absent	TOC-5310(28)
L1316913-04F	Amber 1000ml H2SO4 preserved	E	<2	2.6	Y	Absent	TPHENOL-420(28)
L1316913-04G	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316913-04H	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	SALINITY(28),NO3-353(2)
L1316913-04I	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	BOD-5210(2)
L1316913-04J	Plastic 500ml H2SO4 preserved	E	<2	2.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316913-04K	Plastic 500ml HNO3 preserved	E	<2	2.6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316913-04L	Plastic 250ml unpreserved	E	7	2.6	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316913-04M	Plastic 250ml NaOH preserved	E	>12	2.6	Y	Absent	TCN-9010(14)
L1316913-04N	Plastic 250ml unpreserved	E	N/A	2.6	Y	Absent	ALK-T-2320(14)
L1316913-05A	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-05B	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1316913-05C	Vial HCl preserved	E	N/A	2.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316913
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316913-05D	Vial H2SO4 preserved	E	N/A	2.6	Y	Absent	TOC-5310(28)
L1316913-05E	Vial H2SO4 preserved	E	N/A	2.6	Y	Absent	TOC-5310(28)
L1316913-05F	Amber 1000ml H2SO4 preserved	E	<2	2.6	Y	Absent	TPHENOL-420(28)
L1316913-05G	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316913-05H	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	SALINITY(28),NO3-353(2)
L1316913-05I	Plastic 1000ml unpreserved	E	7	2.6	Y	Absent	BOD-5210(2)
L1316913-05J	Plastic 500ml H2SO4 preserved	E	<2	2.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316913-05K	Plastic 500ml HNO3 preserved	E	<2	2.6	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316913-05L	Plastic 250ml unpreserved	E	7	2.6	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316913-05M	Plastic 250ml NaOH preserved	E	>12	2.6	Y	Absent	TCN-9010(14)
L1316913-05N	Plastic 250ml unpreserved	E	N/A	2.6	Y	Absent	ALK-T-2320(14)
L1316913-06A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1316913
Project Number:	Not Specified	**Report Date:**	09/10/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1316913
Project Number:	Not Specified	**Report Date:**	09/10/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1316913
Project Number: Not Specified **Report Date:** 09/10/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/28/13

ALPHA Job #: L1316913

Client Information

Client: CT Male Associates
Address: 50 Centruy Hill Drive
Latham, NY 12110
Phone: 518.786.7400
Fax: 518.786.7299
Email: k.moline@ctmale.com

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: US Salt
Project Location: Reading, NY
Project #:
Project Manager: Kirk Moline
ALPHA Quote #: 2012282

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/5/13 Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes	☒ No	Are MCP Analytical Methods Required?
☐ Yes	☒ No	Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NYCRR Part 360 - Baseline Parameters
Metals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	TOTAL # BOTTLES
1691B-01	MW-39	8/29/13	1300	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
02	MW-29		1330	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
03	MW-54A		1355	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
04	MW-35A		1530	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
05	MW-53		1550	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
06	Trip Blank			GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	VOCs only	14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				Container Type		P	P	P	A	P	V	P	P	V	P	A	-		
				Preservative		C	E	A	D	A	D	D	A	B	A	A	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01(I) (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	8/29/13 1640	[signature]	8/29/13 1640
[signature]	8-29-13 2114	[signature]	8-29-13 2114
[signature]	8-29-13 2358	[signature]	8/29/13 2358

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1316911
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	Not Specified
Report Date:	09/10/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1316911-01	MW-26	READING, NY	08/29/13 07:05
L1316911-02	MW-51	READING, NY	08/29/13 07:35
L1316911-03	MW-27	READING, NY	08/29/13 08:20
L1316911-04	MW-58	READING, NY	08/29/13 08:45
L1316911-05	MW-36	READING, NY	08/29/13 09:30
L1316911-06	MW-57	READING, NY	08/29/13 09:55
L1316911-07	MW-37	READING, NY	08/29/13 10:40
L1316911-08	MW-55	READING, NY	08/29/13 11:05
L1316911-09	MW-28	READING, NY	08/29/13 11:55
L1316911-10	MW-56A	READING, NY	08/29/13 12:20

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1316911
Project Number: Not Specified **Report Date:** 09/10/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

The WG632771-4 MS recovery, performed on L1316911-01, is above the acceptance criteria for sodium (148%). A post digestion spike was performed with an acceptable recovery of 124%.

Phenolics, Total

The WG633891-3 Laboratory Duplicate RPD (50%), performed on L1316911-09, is above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 09/10/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-01	Date Collected:	08/29/13 07:05
Client ID:	MW-26	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 14:52		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-01 Date Collected: 08/29/13 07:05

Client ID: MW-26 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.9	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-02	Date Collected:	08/29/13 07:35
Client ID:	MW-51	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 15:19		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-02 Date Collected: 08/29/13 07:35

Client ID: MW-51 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.3	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-03	Date Collected:	08/29/13 08:20
Client ID:	MW-27	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 15:47		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-03 Date Collected: 08/29/13 08:20

Client ID: MW-27 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.2	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-04	Date Collected:	08/29/13 08:45
Client ID:	MW-58	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 16:14		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-04 Date Collected: 08/29/13 08:45

Client ID: MW-58 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-05	Date Collected:	08/29/13 09:30
Client ID:	MW-36	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 16:41		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-05 Date Collected: 08/29/13 09:30

Client ID: MW-36 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.6	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-06	Date Collected:	08/29/13 09:55
Client ID:	MW-57	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 17:09		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-06 Date Collected: 08/29/13 09:55

Client ID: MW-57 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.7	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-07	Date Collected:	08/29/13 10:40
Client ID:	MW-37	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 17:36		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-07 Date Collected: 08/29/13 10:40

Client ID: MW-37 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.5	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-08	Date Collected:	08/29/13 11:05
Client ID:	MW-55	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 18:03		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-08 Date Collected: 08/29/13 11:05

Client ID: MW-55 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	6.7		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-09	Date Collected:	08/29/13 11:55
Client ID:	MW-28	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 18:30		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-09 Date Collected: 08/29/13 11:55

Client ID: MW-28 Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.3	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-10	Date Collected:	08/29/13 12:20
Client ID:	MW-56A	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	08/30/13 18:58		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-10 Date Collected: 08/29/13 12:20

Client ID: MW-56A Date Received: 08/29/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/30/13 10:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG632882-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/30/13 10:47
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG632882-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG632882-1 WG632882-2								
Methylene chloride	98		99		70-130	1		20
1,1-Dichloroethane	103		106		70-130	3		20
Chloroform	102		104		70-130	2		20
2-Chloroethylvinyl ether	75		78		70-130	4		20
Carbon tetrachloride	108		108		63-132	0		20
1,2-Dichloropropane	100		104		70-130	4		20
Dibromochloromethane	94		97		63-130	3		20
1,1,2-Trichloroethane	94		97		70-130	3		20
Tetrachloroethene	104		104		70-130	0		20
Chlorobenzene	100		102		75-130	2		20
Trichlorofluoromethane	98		98		62-150	0		20
1,2-Dichloroethane	89		91		70-130	2		20
1,1,1-Trichloroethane	104		105		67-130	1		20
Bromodichloromethane	94		96		67-130	2		20
trans-1,3-Dichloropropene	95		98		70-130	3		20
cis-1,3-Dichloropropene	97		100		70-130	3		20
1,1-Dichloropropene	105		106		70-130	1		20
Bromoform	95		98		54-136	3		20
1,1,2,2-Tetrachloroethane	93		95		67-130	2		20
Benzene	107		109		70-130	2		20
Toluene	103		106		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG632882-1 WG632882-2								
Ethylbenzene	101		102		70-130	1		20
Chloromethane	100		100		64-130	0		20
Bromomethane	67		65		39-139	3		20
Vinyl chloride	96		96		55-140	0		20
Chloroethane	86		86		55-138	0		20
1,1-Dichloroethene	108		110		61-145	2		20
trans-1,2-Dichloroethene	107		110		70-130	3		20
Trichloroethene	102		104		70-130	2		20
1,2-Dichlorobenzene	96		99		70-130	3		20
1,3-Dichlorobenzene	101		105		70-130	4		20
1,4-Dichlorobenzene	97		100		70-130	3		20
Methyl tert butyl ether	93		95		63-130	2		20
p/m-Xylene	102		104		70-130	2		20
o-Xylene	98		100		70-130	2		20
cis-1,2-Dichloroethene	102		106		70-130	4		20
Dibromomethane	92		96		70-130	4		20
1,2,3-Trichloropropane	95		100		64-130	5		20
Acrylonitrile	98		101		70-130	3		20
Isopropyl Ether	99		102		70-130	3		20
tert-Butyl Alcohol	91		96		70-130	5		20
Styrene	97		100		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG632882-1 WG632882-2								
Dichlorodifluoromethane	94		94		36-147	0		20
Acetone	92		89		58-148	3		20
Carbon disulfide	105		106		51-130	1		20
2-Butanone	86		85		63-138	1		20
Vinyl acetate	91		93		70-130	2		20
4-Methyl-2-pentanone	76		80		59-130	5		20
2-Hexanone	69		71		57-130	3		20
Bromochloromethane	105		107		70-130	2		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	89		93		70-130	4		20
1,3-Dichloropropane	92		96		70-130	4		20
1,1,1,2-Tetrachloroethane	100		102		64-130	2		20
Bromobenzene	96		99		70-130	3		20
n-Butylbenzene	97		100		53-136	3		20
sec-Butylbenzene	103		105		70-130	2		20
tert-Butylbenzene	101		104		70-130	3		20
o-Chlorotoluene	104		107		70-130	3		20
p-Chlorotoluene	99		102		70-130	3		20
1,2-Dibromo-3-chloropropane	86		86		41-144	0		20
Hexachlorobutadiene	97		100		63-130	3		20
Isopropylbenzene	100		102		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG632882-1 WG632882-2								
p-Isopropyltoluene	102		105		70-130	3		20
Naphthalene	84		86		70-130	2		20
n-Propylbenzene	100		102		69-130	2		20
1,2,3-Trichlorobenzene	87		88		70-130	1		20
1,2,4-Trichlorobenzene	89		92		70-130	3		20
1,3,5-Trimethylbenzene	101		105		64-130	4		20
1,2,4-Trimethylbenzene	96		100		70-130	4		20
Methyl Acetate	90		94		70-130	4		20
Ethyl Acetate	86		88		70-130	2		20
Cyclohexane	115		115		70-130	0		20
Ethyl-Tert-Butyl-Ether	92		96		70-130	4		20
Tertiary-Amyl Methyl Ether	89		92		66-130	3		20
1,4-Dioxane	114		116		56-162	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	116		116		70-130	0		20
1,4-Diethylbenzene	96		99		70-130	3		20
4-Ethyltoluene	100		103		70-130	3		20
1,2,4,5-Tetramethylbenzene	97		101		70-130	4		20
Ethyl ether	100		102		59-134	2		20
trans-1,4-Dichloro-2-butene	79		80		70-130	1		20
Iodomethane	86		90		70-130	5		20
Methyl cyclohexane	111		110		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG632882-1 WG632882-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	99		99		70-130

METALS

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-01
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 07:05
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.194		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00243		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Barium, Total	0.04140		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Boron, Total	0.132		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 14:13	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Calcium, Total	79.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 14:13	EPA 3005A	1,6010C	TT
Chromium, Total	0.00075	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00028	J	mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Copper, Total	0.00051	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Iron, Total	1.03		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Lead, Total	0.00047	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Magnesium, Total	24.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 14:13	EPA 3005A	1,6010C	TT
Manganese, Total	0.1299		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 10:55	EPA 7470A	1,7470A	DR
Nickel, Total	0.00102		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Potassium, Total	3.51		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Selenium, Total	0.00037	J	mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Silver, Total	0.00011	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Sodium, Total	17.5		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00031	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Zinc, Total	0.01206		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 00:48	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	290		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 14:13	EPA 3005A	1,6010C	TT

Project Name:	US SALT	**Lab Number:**	L1316911
Project Number:	Not Specified	**Report Date:**	09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-02	Date Collected:	08/29/13 07:35
Client ID:	MW-51	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0521		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00023	J	mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Barium, Total	0.03383		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Boron, Total	0.164		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 15:45	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Calcium, Total	79.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 15:45	EPA 3005A	1,6010C	TT
Chromium, Total	0.00048	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00012	J	mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Copper, Total	0.00035	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Iron, Total	0.734		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Magnesium, Total	22.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 15:45	EPA 3005A	1,6010C	TT
Manganese, Total	0.05753		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 10:57	EPA 7470A	1,7470A	DR
Nickel, Total	0.00065		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Potassium, Total	2.34		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Silver, Total	0.00011	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Sodium, Total	15.9		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Zinc, Total	0.01417		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 01:01	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	290		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 15:45	EPA 3005A	1,6010C	TT

Project Name:	US SALT	**Lab Number:**	L1316911
Project Number:	Not Specified	**Report Date:**	09/10/13

SAMPLE RESULTS

Lab ID:	L1316911-03	Date Collected:	08/29/13 08:20
Client ID:	MW-27	Date Received:	08/29/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.154		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Antimony, Total	0.00020	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00116		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Barium, Total	0.05666		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Boron, Total	0.0189	J	mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 15:49	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00030		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Calcium, Total	95.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 15:49	EPA 3005A	1,6010C	TT
Chromium, Total	0.00067	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00092		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Copper, Total	0.00063	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Iron, Total	0.704		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Lead, Total	0.00023	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Magnesium, Total	18.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 15:49	EPA 3005A	1,6010C	TT
Manganese, Total	0.3776		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 10:59	EPA 7470A	1,7470A	DR
Nickel, Total	0.00205		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Potassium, Total	3.17		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Silver, Total	0.00011	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Sodium, Total	12.5		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00029	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Zinc, Total	0.01574		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 01:07	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	310		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 15:49	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-04
Client ID: MW-58
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 08:45
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0203		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01666		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Barium, Total	0.03933		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Boron, Total	0.103		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 15:54	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Calcium, Total	70.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 15:54	EPA 3005A	1,6010C	TT
Chromium, Total	0.00050	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Copper, Total	0.00027	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Iron, Total	0.660		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Magnesium, Total	21.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 15:54	EPA 3005A	1,6010C	TT
Manganese, Total	0.03906		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:01	EPA 7470A	1,7470A	DR
Nickel, Total	0.00053		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Potassium, Total	1.65		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Silver, Total	0.00011	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Sodium, Total	12.3		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Zinc, Total	0.01072		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 01:13	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	260		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 15:54	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-05
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 09:30
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.250		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Antimony, Total	0.00040	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00119		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Barium, Total	0.04376		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Boron, Total	0.0228	J	mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 15:58	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Calcium, Total	77.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 15:58	EPA 3005A	1,6010C	TT
Chromium, Total	0.00079	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00081		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Copper, Total	0.00098	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Iron, Total	0.737		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Lead, Total	0.00038	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Magnesium, Total	22.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 15:58	EPA 3005A	1,6010C	TT
Manganese, Total	0.1596		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:03	EPA 7470A	1,7470A	DR
Nickel, Total	0.00161		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Potassium, Total	3.50		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Selenium, Total	0.00055	J	mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Silver, Total	0.00011	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Sodium, Total	5.20		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00083	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Zinc, Total	0.01176		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 01:19	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	280		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 15:58	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-06
Client ID: MW-57
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 09:55
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0729		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Antimony, Total	0.00076	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00507		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Barium, Total	0.06596		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Boron, Total	0.0735		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 16:02	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Calcium, Total	62.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 16:02	EPA 3005A	1,6010C	TT
Chromium, Total	0.00062	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00082		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Copper, Total	0.00036	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Iron, Total	0.374		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Magnesium, Total	19.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 16:02	EPA 3005A	1,6010C	TT
Manganese, Total	0.06722		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:05	EPA 7470A	1,7470A	DR
Nickel, Total	0.00121		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Potassium, Total	4.39		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Silver, Total	0.00018	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Sodium, Total	13.4		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00105	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Zinc, Total	0.01214		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 01:25	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	230		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 16:02	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-07
Client ID: MW-37
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 10:40
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.246		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Antimony, Total	0.00015	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00598		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Barium, Total	0.08116		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Boron, Total	0.0702		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 16:14	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Calcium, Total	50.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 16:14	EPA 3005A	1,6010C	TT
Chromium, Total	0.00080	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00030	J	mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Copper, Total	0.00065	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Iron, Total	0.695		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Lead, Total	0.00037	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Magnesium, Total	15.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 16:14	EPA 3005A	1,6010C	TT
Manganese, Total	0.1018		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:07	EPA 7470A	1,7470A	DR
Nickel, Total	0.00094		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Potassium, Total	2.80		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Silver, Total	0.00012	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Sodium, Total	12.1		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00039	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Zinc, Total	0.01234		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 01:32	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 16:14	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-08
Client ID: MW-55
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 11:05
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.345		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Antimony, Total	0.00084	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00425		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Barium, Total	0.03009		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Boron, Total	0.0473		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 16:17	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00005	J	mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Calcium, Total	37.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 16:17	EPA 3005A	1,6010C	TT
Chromium, Total	0.00093	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00029	J	mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Copper, Total	0.00190		mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Iron, Total	0.738		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Lead, Total	0.00060	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Magnesium, Total	11.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 16:17	EPA 3005A	1,6010C	TT
Manganese, Total	0.06233		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:08	EPA 7470A	1,7470A	DR
Nickel, Total	0.00094		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Potassium, Total	9.79		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Silver, Total	0.00013	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Sodium, Total	15.3		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00070	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Zinc, Total	0.01313		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 02:03	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	140		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 16:17	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-09
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 11:55
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.138		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Antimony, Total	0.00029	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00837		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Barium, Total	0.08149		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Boron, Total	0.0615		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 16:21	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Calcium, Total	57.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 16:21	EPA 3005A	1,6010C	TT
Chromium, Total	0.00058	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00024	J	mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Copper, Total	0.00044	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Iron, Total	0.611		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Lead, Total	0.00022	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Magnesium, Total	16.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 16:21	EPA 3005A	1,6010C	TT
Manganese, Total	0.08322		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:10	EPA 7470A	1,7470A	DR
Nickel, Total	0.00071		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Potassium, Total	2.38		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Silver, Total	0.00011	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Sodium, Total	8.90		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00021	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Zinc, Total	0.01142		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 02:09	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	210		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 16:21	EPA 3005A	1,6010C	TT

Project Name: US SALT
Project Number: Not Specified
Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-10
Client ID: MW-56A
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 12:20
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0744		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Antimony, Total	0.00019	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00214		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Barium, Total	0.1173		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Boron, Total	0.246		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 16:25	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Calcium, Total	46.		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 16:25	EPA 3005A	1,6010C	TT
Chromium, Total	0.00061	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00010	J	mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Copper, Total	0.00021	J	mg/l	0.00100	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Iron, Total	0.530		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Magnesium, Total	14.		mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 16:25	EPA 3005A	1,6010C	TT
Manganese, Total	0.05811		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 11:12	EPA 7470A	1,7470A	DR
Nickel, Total	0.00046	J	mg/l	0.00050	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Potassium, Total	2.49		mg/l	0.100	0.0270	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Silver, Total	0.00011	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Sodium, Total	25.9		mg/l	0.100	0.0150	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00018	J	mg/l	0.00500	0.00010	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Zinc, Total	0.01079		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/04/13 02:15	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 16:25	EPA 3005A	1,6010C	TT

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-10 Batch: WG632771-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Chromium, Total	0.00031	J	mg/l	0.00100	0.00020	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Manganese, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Nickel, Total	ND		mg/l	0.00050	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Silver, Total	0.00021	J	mg/l	0.00040	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Sodium, Total	ND		mg/l	0.100	0.0150	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	08/30/13 09:11	09/03/13 22:05	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-10 Batch: WG632772-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	08/30/13 09:11	09/05/13 14:05	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	08/30/13 09:11	09/05/13 14:05	1,6010C	TT
Magnesium, Total	0.015	J	mg/l	0.10	0.010	1	08/30/13 09:11	09/05/13 14:05	1,6010C	TT

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-10 Batch: WG632772-1										
Hardness	ND		mg/l	0.66	NA	1	08/30/13 09:11	09/05/13 14:05	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-10 Batch: WG633031-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/31/13 06:52	08/31/13 10:31	1,7470A	DR

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG632771-2								
Aluminum, Total	107		-		80-120	-		
Antimony, Total	87		-		80-120	-		
Arsenic, Total	109		-		80-120	-		
Barium, Total	96		-		80-120	-		
Beryllium, Total	108		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Chromium, Total	99		-		80-120	-		
Cobalt, Total	102		-		80-120	-		
Copper, Total	98		-		80-120	-		
Iron, Total	95		-		80-120	-		
Lead, Total	98		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Potassium, Total	103		-		80-120	-		
Selenium, Total	106		-		80-120	-		
Silver, Total	92		-		80-120	-		
Sodium, Total	113		-		80-120	-		
Thallium, Total	101		-		80-120	-		
Vanadium, Total	98		-		80-120	-		
Zinc, Total	108		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG632772-2					
Boron, Total	113	-	80-120	-	
Calcium, Total	100	-	80-120	-	
Magnesium, Total	100	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-10 Batch: WG632772-2					
Hardness	103	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-10 Batch: WG633031-2					
Mercury, Total	110	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632771-4 QC Sample: L1316911-01 Client ID: MW-26												
Aluminum, Total	0.194	2	2.50	115		-	-		80-120	-		20
Antimony, Total	ND	0.5	0.4566	91		-	-		80-120	-		20
Arsenic, Total	0.00243	0.12	0.1406	115		-	-		80-120	-		20
Barium, Total	0.04140	2	2.004	98		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.05576	112		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.05636	110		-	-		80-120	-		20
Chromium, Total	0.00075J	0.2	0.2088	104		-	-		80-120	-		20
Cobalt, Total	0.00028J	0.5	0.5310	106		-	-		80-120	-		20
Copper, Total	0.00051J	0.25	0.2592	104		-	-		80-120	-		20
Iron, Total	1.03	1	2.15	112		-	-		80-120	-		20
Lead, Total	0.00047J	0.51	0.5094	100		-	-		80-120	-		20
Manganese, Total	0.1299	0.5	0.6648	107		-	-		80-120	-		20
Nickel, Total	0.00102	0.5	0.5184	103		-	-		80-120	-		20
Potassium, Total	3.51	10	14.7	112		-	-		80-120	-		20
Selenium, Total	0.00037J	0.12	0.140	117		-	-		80-120	-		20
Silver, Total	0.00011J	0.05	0.04716	94		-	-		80-120	-		20
Sodium, Total	17.5	10	32.3	**148**	Q	-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1247	104		-	-		80-120	-		20
Vanadium, Total	0.00031J	0.5	0.5160	103		-	-		80-120	-		20
Zinc, Total	0.01206	0.5	0.5736	112		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632772-4 QC Sample: L1316911-01 Client ID: MW-26									
Boron, Total	0.132	1	1.32	119	-	-	75-125	-	20
Calcium, Total	79.	10	89	100	-	-	75-125	-	20
Magnesium, Total	24.	10	33	90	-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632772-4 QC Sample: L1316911-01 Client ID: MW-26									
Hardness	290	66.2	360	106	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633031-4 QC Sample: L1316991-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00605	121	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632771-3 QC Sample: L1316911-01 Client ID: MW-26						
Aluminum, Total	0.194	0.201	mg/l	4		20
Antimony, Total	ND	ND	mg/l	NC		20
Arsenic, Total	0.00243	0.00227	mg/l	7		20
Barium, Total	0.04140	0.03872	mg/l	7		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00075J	0.00071J	mg/l	NC		20
Cobalt, Total	0.00028J	0.00028J	mg/l	NC		20
Copper, Total	0.00051J	0.00050J	mg/l	NC		20
Iron, Total	1.03	0.990	mg/l	4		20
Lead, Total	0.00047J	0.00043J	mg/l	NC		20
Manganese, Total	0.1299	0.1227	mg/l	6		20
Nickel, Total	0.00102	0.00093	mg/l	9		20
Potassium, Total	3.51	3.27	mg/l	7		20
Selenium, Total	0.00037J	0.00035J	mg/l	NC		20
Silver, Total	0.00011J	0.00010J	mg/l	NC		20
Sodium, Total	17.5	16.4	mg/l	6		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	0.00031J	0.00028J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632771-3 QC Sample: L1316911-01 Client ID: MW-26					
Zinc, Total	0.01206	0.01127	mg/l	7	20
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632772-3 QC Sample: L1316911-01 Client ID: MW-26					
Boron, Total	0.132	0.125	mg/l	5	20
Calcium, Total	79.	75.	mg/l	5	20
Magnesium, Total	24.	22.	mg/l	9	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632772-3 QC Sample: L1316911-01 Client ID: MW-26					
Hardness	290	280	mg/l	4	20
Total Metals - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633031-3 QC Sample: L1316991-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-01
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 07:05
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	6.0		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	269.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	370		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:46	1,9010C/9012A	JO
Nitrogen, Ammonia	0.272		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 22:58	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:13	44,353.2	DB
Nitrogen, Total Kjeldahl	0.55		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:16	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:58	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.32		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/04/13 10:00	09/04/13 15:47	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:51	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 19:19	44,300.0	AU
Chloride	2.54		mg/l	0.500	0.168	1	-	09/05/13 19:19	44,300.0	AU
Sulfate	66.9		mg/l	1.00	0.229	1	-	09/05/13 19:19	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-02
Client ID: MW-51
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 07:35
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	258.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	350		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:47	1,9010C/9012A	JO
Nitrogen, Ammonia	0.310		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 22:59	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:16	44,353.2	DB
Nitrogen, Total Kjeldahl	0.43		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:17	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:58	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.33		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 12:11	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:51	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 19:31	44,300.0	AU
Chloride	2.44		mg/l	0.500	0.168	1	-	09/05/13 19:31	44,300.0	AU
Sulfate	62.2		mg/l	1.00	0.229	1	-	09/05/13 19:31	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-03
Client ID: MW-27
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 08:20
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	227.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	430		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:47	1,9010C/9012A	JO
Nitrogen, Ammonia	0.051	J	mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:00	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:16	44,353.2	DB
Nitrogen, Total Kjeldahl	0.39		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:18	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:58	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.98		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 12:12	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:52	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 19:43	44,300.0	AU
Chloride	13.4		mg/l	0.500	0.168	1	-	09/05/13 19:43	44,300.0	AU
Sulfate	116.		mg/l	10.0	2.29	10	-	09/05/13 20:43	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-04
Client ID: MW-58
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 08:45
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	7.0		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	249.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	300		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:48	1,9010C/9012A	JO
Nitrogen, Ammonia	0.156		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:03	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:17	44,353.2	DB
Nitrogen, Total Kjeldahl	0.33		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:19	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:58	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.28		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 12:12	4,420.1	MP
Chromium, Hexavalent	0.001	J	mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:52	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 19:55	44,300.0	AU
Chloride	2.92		mg/l	0.500	0.168	1	-	09/05/13 19:55	44,300.0	AU
Sulfate	45.7		mg/l	1.00	0.229	1	-	09/05/13 19:55	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-05
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 09:30
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	222.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	330		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:49	1,9010C/9012A	JO
Nitrogen, Ammonia	0.066	J	mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:04	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:18	44,353.2	DB
Nitrogen, Total Kjeldahl	0.36		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:20	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.7	J	mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:59	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.49		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 12:13	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:52	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 20:07	44,300.0	AU
Chloride	5.79		mg/l	0.500	0.168	1	-	09/05/13 20:07	44,300.0	AU
Sulfate	59.3		mg/l	1.00	0.229	1	-	09/05/13 20:07	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-06
Client ID: MW-57
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 09:55
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	200.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	280		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 12:25	09/03/13 11:24	1,9010C/9012A	DE
Nitrogen, Ammonia	0.233		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:05	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:18	44,353.2	DB
Nitrogen, Total Kjeldahl	0.39		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:20	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	18.		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:59	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.48		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 12:14	4,420.1	MP
Chromium, Hexavalent	0.002	J	mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:52	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 20:19	44,300.0	AU
Chloride	5.15		mg/l	0.500	0.168	1	-	09/05/13 20:19	44,300.0	AU
Sulfate	40.3		mg/l	1.00	0.229	1	-	09/05/13 20:19	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-07
Client ID: MW-37
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 10:40
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	178.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	260		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 12:25	09/03/13 11:28	1,9010C/9012A	DE
Nitrogen, Ammonia	0.149		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:06	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:21	44,353.2	DB
Nitrogen, Total Kjeldahl	0.35		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:21	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:59	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.38		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 15:06	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:53	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 20:31	44,300.0	AU
Chloride	1.11		mg/l	0.500	0.168	1	-	09/05/13 20:31	44,300.0	AU
Sulfate	33.8		mg/l	1.00	0.229	1	-	09/05/13 20:31	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-08
Client ID: MW-55
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 11:05
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	137.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	210		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 12:25	09/03/13 11:29	1,9010C/9012A	DE
Nitrogen, Ammonia	0.208		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:07	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:22	44,353.2	DB
Nitrogen, Total Kjeldahl	0.59		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:25	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	21.		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:59	44,410.4	TL
BOD, 5 day	12.		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	6.52		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.050		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 15:07	4,420.1	MP
Chromium, Hexavalent	0.001	J	mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:53	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.023	J	mg/l	0.050	0.010	1	-	09/05/13 21:19	44,300.0	AU
Chloride	12.7		mg/l	0.500	0.168	1	-	09/05/13 21:19	44,300.0	AU
Sulfate	28.1		mg/l	1.00	0.229	1	-	09/05/13 21:19	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-09
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 11:55
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	183.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	240		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 12:25	09/03/13 11:30	1,9010C/9012A	DE
Nitrogen, Ammonia	0.104		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:07	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:22	44,353.2	DB
Nitrogen, Total Kjeldahl	0.31		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:26	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 19:00	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.27		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.050		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 15:07	4,420.1	MP
Chromium, Hexavalent	0.001	J	mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:53	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 21:31	44,300.0	AU
Chloride	1.94		mg/l	0.500	0.168	1	-	09/05/13 21:31	44,300.0	AU
Sulfate	37.0		mg/l	1.00	0.229	1	-	09/05/13 21:31	44,300.0	AU

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

SAMPLE RESULTS

Lab ID: L1316911-10
Client ID: MW-56A
Sample Location: READING, NY
Matrix: Water

Date Collected: 08/29/13 12:20
Date Received: 08/29/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	08/30/13 03:09	30,2120B	EL
Alkalinity, Total	198.		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	08/30/13 03:09	30,2520B	EL
Solids, Total Dissolved	250		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 12:25	09/03/13 11:30	1,9010C/9012A	DE
Nitrogen, Ammonia	0.278		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 23:08	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:23	44,353.2	DB
Nitrogen, Total Kjeldahl	0.47		mg/l	0.30	0.060	1	08/31/13 22:45	09/04/13 23:26	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 19:00	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
Total Organic Carbon	1.12		mg/l	1.00	0.052	2	-	09/04/13 07:23	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 15:08	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:54	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	09/05/13 21:43	44,300.0	AU
Chloride	0.926		mg/l	0.500	0.168	1	-	09/05/13 21:43	44,300.0	AU
Sulfate	20.6		mg/l	1.00	0.229	1	-	09/05/13 21:43	44,300.0	AU

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG632703-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	08/30/13 02:12	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG632709-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	08/30/13 02:00	08/30/13 02:51	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG632787-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 09:45	08/30/13 13:43	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 06-10 Batch: WG632812-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/30/13 12:25	09/03/13 11:19	1,9010C/9012A	DE
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG632935-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	08/30/13 18:50	09/04/13 15:40	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG633100-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.031	1	08/31/13 20:05	09/04/13 22:52	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG633101-1										
Nitrogen, Total Kjeldahl	0.20	J	mg/l	0.30	0.020	1	08/31/13 22:45	09/04/13 23:14	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG633391-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	09/03/13 15:30	09/03/13 18:57	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG633418-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	09/03/13 12:32	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG633514-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	09/04/13 12:15	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG633588-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/04/13 10:00	09/04/13 12:28	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG633632-1										
Total Organic Carbon	ND		mg/l	0.500	0.026	1	-	09/04/13 07:23	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG633891-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	09/05/13 10:00	09/05/13 12:10	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-10 Batch: WG634723-1										
Bromide	0.020	J	mg/l	0.050	0.010	1	-	09/05/13 18:55	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	09/05/13 18:55	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	09/05/13 18:55	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG632703-2								
Nitrogen, Nitrate	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG632709-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG632713-1								
SALINITY	102		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-05 Batch: WG632787-2 WG632787-3								
Cyanide, Total	102		103		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 06-10 Batch: WG632812-2 WG632812-3								
Cyanide, Total	99		103		80-120	4		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG632935-2								
BOD, 5 day	107		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG633100-2								
Nitrogen, Ammonia	96		-		80-120	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG633101-2					
Nitrogen, Total Kjeldahl	98	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG633391-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG633418-2					
Alkalinity, Total	104	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG633514-2					
Solids, Total Dissolved	95	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG633588-2					
Phenolics, Total	99	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG633632-2					
Total Organic Carbon	93	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG633891-2					
Phenolics, Total	100	-	82-111	-	12

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 Batch: WG634723-2					
Bromide	92	-	90-110	-	
Chloride	105	-	90-110	-	
Sulfate	101	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632703-4 QC Sample: L1316911-01 Client ID: MW-26												
Nitrogen, Nitrate	ND	4	3.9	98		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632709-4 QC Sample: L1316911-09 Client ID: MW-28												
Chromium, Hexavalent	0.001J	0.1	0.097	97		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG632787-4 WG632787-5 QC Sample: L1316913-03 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.194	97		0.192	96		80-120	1		20
General Chemistry - Westborough Lab Associated sample(s): 06-10 QC Batch ID: WG632812-4 WG632812-5 QC Sample: L1316911-06 Client ID: MW-57												
Cyanide, Total	ND	0.2	0.198	99		0.193	96		80-120	3		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632935-4 QC Sample: L1316911-02 Client ID: MW-51												
BOD, 5 day	ND	100	100	100		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633100-4 QC Sample: L1317015-01 Client ID: MS Sample												
Nitrogen, Ammonia	0.307	4	4.10	95		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633101-4 QC Sample: L1316911-10 Client ID: MW-56A												
Nitrogen, Total Kjeldahl	0.47	8	8.4	99		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633391-3 QC Sample: L1316911-10 Client ID: MW-56A												
Chemical Oxygen Demand	ND	47.6	46	97		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633418-3 QC Sample: L1316911-10 Client ID: MW-56A												
Alkalinity, Total	198.	100	297	99		-	-		86-116	-		10

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG633588-4 QC Sample: L1316911-01 Client ID: MW-26									
Phenolics, Total	0.020J	0.8	0.87	109	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633632-4 QC Sample: L1316911-03 Client ID: MW-27									
Total Organic Carbon	1.98	8	10.2	103	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG633891-4 QC Sample: L1316911-10 Client ID: MW-56A									
Phenolics, Total	0.030	0.8	0.83	100	-	-	77-124	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG634723-3 QC Sample: L1316911-04 Client ID: MW-58									
Bromide	ND	0.4	0.334	84	-	-	77-119	-	20
Chloride	2.92	4	6.91	100	-	-	40-151	-	18
Sulfate	45.7	8	52.0	79	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632703-3 QC Sample: L1316911-01 Client ID: MW-26						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632709-3 QC Sample: L1316911-08 Client ID: MW-55						
Chromium, Hexavalent	0.001J	0.001J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632713-2 QC Sample: L1316911-01 Client ID: MW-26						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632714-1 QC Sample: L1316911-01 Client ID: MW-26						
Color, Apparent	6.0	6.0	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG632935-3 QC Sample: L1316911-01 Client ID: MW-26						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633100-3 QC Sample: L1317015-01 Client ID: DUP Sample						
Nitrogen, Ammonia	0.307	0.306	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633101-3 QC Sample: L1316911-10 Client ID: MW-56A						
Nitrogen, Total Kjeldahl	0.47	0.60	mg/l	24		24
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633391-4 QC Sample: L1316911-10 Client ID: MW-56A						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633418-4 QC Sample: L1316911-10 Client ID: MW-56A						
Alkalinity, Total	198.	195.	mg CaCO3/L	2		10

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633514-3 QC Sample: L1317015-01 Client ID: DUP Sample						
Solids, Total Dissolved	210	180	mg/l	15		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG633588-3 QC Sample: L1317015-02 Client ID: DUP Sample						
Phenolics, Total	0.010J	0.010J	mg/l	NC		12
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG633632-3 QC Sample: L1316911-01 Client ID: MW-26						
Total Organic Carbon	1.32	1.29	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG633891-3 QC Sample: L1316911-09 Client ID: MW-28						
Phenolics, Total	0.050	0.030	mg/l	**50**	Q	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG634723-4 QC Sample: L1316911-04 Client ID: MW-58						
Bromide	ND	ND	mg/l	NC		20
Chloride	2.92	2.94	mg/l	1		18
Sulfate	45.7	45.7	mg/l	0		20

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
D	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316911-01A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-01B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-01C	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-01D	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1316911-01E	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1316911-01F	Amber 1000ml H2SO4 preserved	A	<2	2.8	Y	Absent	TPHENOL-420(28)
L1316911-01G	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-01H	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-01I	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	BOD-5210(2)
L1316911-01J	Plastic 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316911-01K	Plastic 500ml HNO3 preserved	A	<2	2.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-01L	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-01M	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-9010(14)
L1316911-01N	Plastic 250ml unpreserved	A	N/A	2.8	Y	Absent	ALK-T-2320(14)
L1316911-02A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316911-02B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-02C	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-02D	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1316911-02E	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1316911-02F	Amber 1000ml H2SO4 preserved	A	<2	2.8	Y	Absent	TPHENOL-420(28)
L1316911-02G	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-02H	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-02I	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	BOD-5210(2)
L1316911-02J	Plastic 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316911-02K	Plastic 500ml HNO3 preserved	A	<2	2.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-02L	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-02M	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-9010(14)
L1316911-02N	Plastic 250ml unpreserved	A	N/A	2.8	Y	Absent	ALK-T-2320(14)
L1316911-03A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-03B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-03C	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1316911-03D	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1316911-03E	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1316911-03F	Amber 1000ml H2SO4 preserved	A	<2	2.8	Y	Absent	TPHENOL-420(28)
L1316911-03G	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-03H	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-03I	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	BOD-5210(2)
L1316911-03J	Plastic 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316911-03K	Plastic 500ml HNO3 preserved	A	<2	2.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-03L	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-03M	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-9010(14)
L1316911-03N	Plastic 250ml unpreserved	A	N/A	2.8	Y	Absent	ALK-T-2320(14)
L1316911-04A	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-04B	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-04C	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-04D	Vial H2SO4 preserved	B	N/A	3.2	Y	Absent	TOC-5310(28)
L1316911-04E	Vial H2SO4 preserved	B	N/A	3.2	Y	Absent	TOC-5310(28)
L1316911-04F	Amber 1000ml H2SO4 preserved	B	<2	3.2	Y	Absent	TPHENOL-420(28)
L1316911-04G	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-04H	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-04I	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	BOD-5210(2)
L1316911-04J	Plastic 500ml H2SO4 preserved	B	<2	3.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316911-04K	Plastic 500ml HNO3 preserved	B	<2	3.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-04L	Plastic 250ml unpreserved	B	7	3.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-04M	Plastic 250ml NaOH preserved	B	>12	3.2	Y	Absent	TCN-9010(14)
L1316911-04N	Plastic 250ml unpreserved	B	N/A	3.2	Y	Absent	ALK-T-2320(14)
L1316911-05A	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-05B	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-05C	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316911-05D	Vial H2SO4 preserved	B	N/A	3.2	Y	Absent	TOC-5310(28)
L1316911-05E	Vial H2SO4 preserved	B	N/A	3.2	Y	Absent	TOC-5310(28)
L1316911-05F	Amber 1000ml H2SO4 preserved	B	<2	3.2	Y	Absent	TPHENOL-420(28)
L1316911-05G	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-05H	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-05I	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	BOD-5210(2)
L1316911-05J	Plastic 500ml H2SO4 preserved	B	<2	3.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316911-05K	Plastic 500ml HNO3 preserved	B	<2	3.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-05L	Plastic 250ml unpreserved	B	7	3.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-05M	Plastic 250ml NaOH preserved	B	>12	3.2	Y	Absent	TCN-9010(14)
L1316911-05N	Plastic 250ml unpreserved	B	N/A	3.2	Y	Absent	ALK-T-2320(14)
L1316911-06A	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-06B	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-06C	Vial HCl preserved	B	N/A	3.2	Y	Absent	NYTCL-8260(14)
L1316911-06D	Vial H2SO4 preserved	B	N/A	3.2	Y	Absent	TOC-5310(28)
L1316911-06E	Vial H2SO4 preserved	B	N/A	3.2	Y	Absent	TOC-5310(28)
L1316911-06F	Amber 1000ml H2SO4 preserved	B	<2	3.2	Y	Absent	TPHENOL-420(28)
L1316911-06G	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-06H	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-06I	Plastic 1000ml unpreserved	B	7	3.2	Y	Absent	BOD-5210(2)
L1316911-06J	Plastic 500ml H2SO4 preserved	B	<2	3.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316911-06K	Plastic 500ml HNO3 preserved	B	<2	3.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-06L	Plastic 250ml unpreserved	B	7	3.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-06M	Plastic 250ml NaOH preserved	B	>12	3.2	Y	Absent	TCN-9010(14)
L1316911-06N	Plastic 250ml unpreserved	B	N/A	3.2	Y	Absent	ALK-T-2320(14)
L1316911-07A	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-07B	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-07C	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-07D	Vial H2SO4 preserved	C	N/A	2.1	Y	Absent	TOC-5310(28)
L1316911-07E	Vial H2SO4 preserved	C	N/A	2.1	Y	Absent	TOC-5310(28)
L1316911-07F	Amber 1000ml H2SO4 preserved	C	<2	2.1	Y	Absent	TPHENOL-420(28)
L1316911-07G	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-07H	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-07I	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	BOD-5210(2)
L1316911-07J	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316911-07K	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-07L	Plastic 250ml unpreserved	C	7	2.1	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-07M	Plastic 250ml NaOH preserved	C	>12	2.1	Y	Absent	TCN-9010(14)
L1316911-07N	Plastic 250ml unpreserved	C	N/A	2.1	Y	Absent	ALK-T-2320(14)
L1316911-08A	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-08B	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-08C	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316911-08D	Vial H2SO4 preserved	C	N/A	2.1	Y	Absent	TOC-5310(28)
L1316911-08E	Vial H2SO4 preserved	C	N/A	2.1	Y	Absent	TOC-5310(28)
L1316911-08F	Amber 1000ml H2SO4 preserved	C	<2	2.1	Y	Absent	TPHENOL-420(28)
L1316911-08G	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-08H	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-08I	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	BOD-5210(2)
L1316911-08J	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316911-08K	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-08L	Plastic 250ml unpreserved	C	7	2.1	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-08M	Plastic 250ml NaOH preserved	C	>12	2.1	Y	Absent	TCN-9010(14)
L1316911-08N	Plastic 250ml unpreserved	C	N/A	2.1	Y	Absent	ALK-T-2320(14)
L1316911-09A	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-09B	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-09C	Vial HCl preserved	C	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1316911-09D	Vial H2SO4 preserved	C	N/A	2.1	Y	Absent	TOC-5310(28)
L1316911-09E	Vial H2SO4 preserved	C	N/A	2.1	Y	Absent	TOC-5310(28)
L1316911-09F	Amber 1000ml H2SO4 preserved	C	<2	2.1	Y	Absent	TPHENOL-420(28)
L1316911-09G	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-09H	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-09I	Plastic 1000ml unpreserved	C	7	2.1	Y	Absent	BOD-5210(2)
L1316911-09J	Plastic 500ml H2SO4 preserved	C	<2	2.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: Not Specified

Lab Number: L1316911
Report Date: 09/10/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1316911-09K	Plastic 500ml HNO3 preserved	C	<2	2.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-09L	Plastic 250ml unpreserved	C	7	2.1	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-09M	Plastic 250ml NaOH preserved	C	>12	2.1	Y	Absent	TCN-9010(14)
L1316911-09N	Plastic 250ml unpreserved	C	N/A	2.1	Y	Absent	ALK-T-2320(14)
L1316911-10A	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316911-10B	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316911-10C	Vial HCl preserved	D	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1316911-10D	Vial H2SO4 preserved	D	N/A	3.3	Y	Absent	TOC-5310(28)
L1316911-10E	Vial H2SO4 preserved	D	N/A	3.3	Y	Absent	TOC-5310(28)
L1316911-10F	Amber 1000ml H2SO4 preserved	D	<2	3.3	Y	Absent	TPHENOL-420(28)
L1316911-10G	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1316911-10H	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	SALINITY(28),NO3-353(2)
L1316911-10I	Plastic 1000ml unpreserved	D	7	3.3	Y	Absent	BOD-5210(2)
L1316911-10J	Plastic 500ml H2SO4 preserved	D	<2	3.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1316911-10K	Plastic 500ml HNO3 preserved	D	<2	3.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1316911-10L	Plastic 250ml unpreserved	D	7	3.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1316911-10M	Plastic 250ml NaOH preserved	D	>12	3.3	Y	Absent	TCN-9010(14)
L1316911-10N	Plastic 250ml unpreserved	D	N/A	3.3	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT **Lab Number:** L1316911

Project Number: Not Specified **Report Date:** 09/10/13

GLOSSARY

Acronyms

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NI - Not Ignitable.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with "J" Qualifiers

Project Name:	US SALT	**Lab Number:**	L1316911
Project Number:	Not Specified	**Report Date:**	09/10/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1316911
Project Number: Not Specified **Report Date:** 09/10/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised August 29, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B, 2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
*Drinking Water (*Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D,

9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330, 8082A, EPA 3510C, 5030B, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm

9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Mansfield, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/28/13

ALPHA Job #: L1316911

Client Information

Client: CT Male Associates
Address: 50 Centruy Hill Drive
Latham, NY 12110
Phone: 518.786.7400
Fax: 518.786.7299
Email: k.moline@ctmale.com

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: US Salt
Project Location: Reading, NY
Project #:
Project Manager: Kirk Moline
ALPHA Quote #: 2012282

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 9/10/13 Time:

Report Information Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.3696

Regulatory Requirements/Report Limits

State/Fed Program: NYCRR Part 360
Criteria:

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

NYCRR Part 360 - Baseline Parameters
Metals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	TOTAL # BOTTLES
16911-01	MW-26	8/29/13	0705	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-02	MW-51		0735	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-03	MW-27		0820	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-04	MW-58		0845	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-05	MW-36		0930	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-06	MW-57		0955	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-07	MW-37		1040	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-08	MW-55		1105	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-09	MW-28		1155	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
-10	MW-56A		1220	GW	SB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
					Container Type	P	P	P	A	P	V	P	P	V	P	A	-		
					Preservative	C	E	A	D	A	D	D	A	B	A	A	-		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01(I) (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	8/29/13 1640	[illegible]	8/29/13 1640
[illegible] 8-29-13			
[illegible]	8-29-13 2114	[illegible]	8-29-13 2114
[illegible]	8-29-13 2358	[illegible]	8/29/13 23:58

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1325851
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08-8696
Report Date:	12/30/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1325851-01	TRANSPORT BLANK	READING, NY	12/19/13 00:00
L1325851-02	MW-46	READING, NY	12/19/13 08:15
L1325851-03	MW-47	READING, NY	12/19/13 08:40
L1325851-04	MW-48	READING, NY	12/19/13 09:10
L1325851-05	MW-49	READING, NY	12/19/13 11:05
L1325851-06	MW-44	READING, NY	12/19/13 10:30
L1325851-07	MW-45	READING, NY	12/19/13 10:00
L1325851-08	MW-43	READING, NY	12/19/13 09:40
L1325851-09	MW-50	READING, NY	12/19/13 11:30

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1325851
Project Number: 08-8696 **Report Date:** 12/30/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1325851-05 and -06 have elevated detection limits for all elements by method 6020A due to the dilutions required by matrix interferences encountered during analysis.

The WG661488-4 MS recovery, performed on L1325851-02, is above the acceptance criteria for boron (129%). A post digestion spike was performed with an unacceptable recovery of 132%. This has been attributed to sample matrix.

The WG661800-4 MS recovery for sodium (131%), performed on L1325851-02, does not apply because the sample concentration is greater than four times the spike amount added.

Bromide

L1325851-02 through -07 and -09 have elevated detection limits due to the dilutions required by the sample matrices.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 12/30/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-01	Date Collected:	12/19/13 00:00
Client ID:	TRANSPORT BLANK	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/22/13 18:29		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-01	Date Collected:	12/19/13 00:00
Client ID:	TRANSPORT BLANK	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-02	Date Collected:	12/19/13 08:15
Client ID:	MW-46	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/22/13 18:57		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-02	Date Collected:	12/19/13 08:15
Client ID:	MW-46	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-03	Date Collected:	12/19/13 08:40
Client ID:	MW-47	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/22/13 19:24		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-03	Date Collected:	12/19/13 08:40
Client ID:	MW-47	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.6	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-04	Date Collected:	12/19/13 09:10
Client ID:	MW-48	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/22/13 19:51		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-04	Date Collected:	12/19/13 09:10
Client ID:	MW-48	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-05	Date Collected:	12/19/13 11:05
Client ID:	MW-49	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/23/13 13:00		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-05	Date Collected:	12/19/13 11:05
Client ID:	MW-49	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	2.4	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-06	Date Collected:	12/19/13 10:30
Client ID:	MW-44	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/23/13 13:28		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-06	Date Collected:	12/19/13 10:30
Client ID:	MW-44	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-07	Date Collected:	12/19/13 10:00
Client ID:	MW-45	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/23/13 13:57		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-07	Date Collected:	12/19/13 10:00
Client ID:	MW-45	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-08	Date Collected:	12/19/13 09:40
Client ID:	MW-43	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/23/13 14:25		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-08	Date Collected:	12/19/13 09:40
Client ID:	MW-43	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-09	Date Collected:	12/19/13 11:30
Client ID:	MW-50	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/23/13 14:54		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-09	Date Collected:	12/19/13 11:30
Client ID:	MW-50	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/13 17:00
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG661092-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/22/13 17:00
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG661092-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/23/13 12:03
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-09 Batch: WG661246-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/23/13 12:03
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-09 Batch: WG661246-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG661092-1 WG661092-2								
Methylene chloride	93		92		70-130	1		20
1,1-Dichloroethane	95		107		70-130	12		20
Chloroform	96		105		70-130	9		20
2-Chloroethylvinyl ether	**57**	Q	**41**	Q	70-130	**33**	Q	20
Carbon tetrachloride	92		101		63-132	9		20
1,2-Dichloropropane	96		95		70-130	1		20
Dibromochloromethane	97		80		63-130	19		20
1,1,2-Trichloroethane	100		83		70-130	19		20
Tetrachloroethene	95		117		70-130	**21**	Q	20
Chlorobenzene	96		111		75-130	14		20
Trichlorofluoromethane	102		115		62-150	12		20
1,2-Dichloroethane	97		78		70-130	**22**	Q	20
1,1,1-Trichloroethane	94		106		67-130	12		20
Bromodichloromethane	94		87		67-130	8		20
trans-1,3-Dichloropropene	95		76		70-130	**22**	Q	20
cis-1,3-Dichloropropene	91		77		70-130	17		20
1,1-Dichloropropene	91		103		70-130	12		20
Bromoform	93		78		54-136	18		20
1,1,2,2-Tetrachloroethane	95		88		67-130	8		20
Benzene	93		105		70-130	12		20
Toluene	96		117		70-130	20		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG661092-1 WG661092-2								
Ethylbenzene	95		117		70-130	**21**	Q	20
Chloromethane	99		105		64-130	6		20
Bromomethane	52		68		39-139	**27**	Q	20
Vinyl chloride	108		119		55-140	10		20
Chloroethane	111		124		55-138	11		20
1,1-Dichloroethene	105		107		61-145	2		20
trans-1,2-Dichloroethene	96		107		70-130	11		20
Trichloroethene	94		107		70-130	13		20
1,2-Dichlorobenzene	98		104		70-130	6		20
1,3-Dichlorobenzene	97		117		70-130	19		20
1,4-Dichlorobenzene	97		113		70-130	15		20
Methyl tert butyl ether	96		72		63-130	**29**	Q	20
p/m-Xylene	99		120		70-130	19		20
o-Xylene	97		115		70-130	17		20
cis-1,2-Dichloroethene	95		103		70-130	8		20
Dibromomethane	97		74		70-130	**27**	Q	20
1,2,3-Trichloropropane	103		97		64-130	6		20
Acrylonitrile	106		99		70-130	7		20
Isopropyl Ether	98		93		70-130	5		20
tert-Butyl Alcohol	120		114		70-130	5		20
Styrene	104		115		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG661092-1 WG661092-2								
Dichlorodifluoromethane	96		108		36-147	12		20
Acetone	116		99		58-148	16		20
Carbon disulfide	95		90		51-130	5		20
2-Butanone	115		96		63-138	18		20
Vinyl acetate	100		71		70-130	**34**	Q	20
4-Methyl-2-pentanone	100		87		59-130	14		20
2-Hexanone	103		94		57-130	9		20
Bromochloromethane	102		87		70-130	16		20
2,2-Dichloropropane	92		102		63-133	10		20
1,2-Dibromoethane	100		80		70-130	**22**	Q	20
1,3-Dichloropropane	98		81		70-130	19		20
1,1,1,2-Tetrachloroethane	100		105		64-130	5		20
Bromobenzene	91		104		70-130	13		20
n-Butylbenzene	99		**138**	Q	53-136	**33**	Q	20
sec-Butylbenzene	95		**133**	Q	70-130	**33**	Q	20
tert-Butylbenzene	92		129		70-130	**33**	Q	20
o-Chlorotoluene	94		125		70-130	**28**	Q	20
p-Chlorotoluene	93		121		70-130	**26**	Q	20
1,2-Dibromo-3-chloropropane	96		115		41-144	18		20
Hexachlorobutadiene	98		**137**	Q	63-130	**33**	Q	20
Isopropylbenzene	88		122		70-130	**32**	Q	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG661092-1 WG661092-2								
p-Isopropyltoluene	97		**133**	Q	70-130	**31**	Q	20
Naphthalene	102		94		70-130	8		20
n-Propylbenzene	90		124		69-130	**32**	Q	20
1,2,3-Trichlorobenzene	103		97		70-130	6		20
1,2,4-Trichlorobenzene	100		107		70-130	7		20
1,3,5-Trimethylbenzene	96		**131**	Q	64-130	**31**	Q	20
1,2,4-Trimethylbenzene	97		129		70-130	**28**	Q	20
Methyl Acetate	103		91		70-130	12		20
Ethyl Acetate	104		89		70-130	16		20
Cyclohexane	90		102		70-130	13		20
Ethyl-Tert-Butyl-Ether	98		81		70-130	19		20
Tertiary-Amyl Methyl Ether	94		72		66-130	**27**	Q	20
1,4-Dioxane	130		138		56-162	6		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	101		103		70-130	2		20
1,4-Diethylbenzene	99		**136**	Q	70-130	**31**	Q	20
4-Ethyltoluene	93		128		70-130	**32**	Q	20
1,2,4,5-Tetramethylbenzene	99		127		70-130	**25**	Q	20
Ethyl ether	112		78		59-134	**36**	Q	20
trans-1,4-Dichloro-2-butene	**50**	Q	**42**	Q	70-130	17		20
Iodomethane	**62**	Q	70		70-130	12		20
Methyl cyclohexane	89		104		70-130	16		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG661092-1 WG661092-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		77		70-130
Toluene-d8	101		109		70-130
4-Bromofluorobenzene	91		98		70-130
Dibromofluoromethane	104		94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-09 Batch: WG661246-1 WG661246-2								
Methylene chloride	103		102		70-130	1		20
1,1-Dichloroethane	92		91		70-130	1		20
Chloroform	90		92		70-130	2		20
2-Chloroethylvinyl ether	95		87		70-130	9		20
Carbon tetrachloride	83		83		63-132	0		20
1,2-Dichloropropane	99		99		70-130	0		20
Dibromochloromethane	94		92		63-130	2		20
1,1,2-Trichloroethane	96		97		70-130	1		20
Tetrachloroethene	98		92		70-130	6		20
Chlorobenzene	96		91		75-130	5		20
Trichlorofluoromethane	76		74		62-150	3		20
1,2-Dichloroethane	83		82		70-130	1		20
1,1,1-Trichloroethane	88		87		67-130	1		20
Bromodichloromethane	88		87		67-130	1		20
trans-1,3-Dichloropropene	91		91		70-130	0		20
cis-1,3-Dichloropropene	98		96		70-130	2		20
1,1-Dichloropropene	98		93		70-130	5		20
Bromoform	90		91		54-136	1		20
1,1,2,2-Tetrachloroethane	96		96		67-130	0		20
Benzene	97		97		70-130	0		20
Toluene	97		94		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-09 Batch: WG661246-1 WG661246-2								
Ethylbenzene	93		89		70-130	4		20
Chloromethane	71		66		64-130	7		20
Bromomethane	48		44		39-139	9		20
Vinyl chloride	87		82		55-140	6		20
Chloroethane	103		99		55-138	4		20
1,1-Dichloroethene	99		95		61-145	4		20
trans-1,2-Dichloroethene	100		98		70-130	2		20
Trichloroethene	97		92		70-130	5		20
1,2-Dichlorobenzene	92		90		70-130	2		20
1,3-Dichlorobenzene	97		94		70-130	3		20
1,4-Dichlorobenzene	92		91		70-130	1		20
Methyl tert butyl ether	95		93		63-130	2		20
p/m-Xylene	94		92		70-130	2		20
o-Xylene	95		93		70-130	2		20
cis-1,2-Dichloroethene	106		102		70-130	4		20
Dibromomethane	97		96		70-130	1		20
1,2,3-Trichloropropane	92		92		64-130	0		20
Acrylonitrile	93		95		70-130	2		20
Isopropyl Ether	90		89		70-130	1		20
tert-Butyl Alcohol	89		102		70-130	14		20
Styrene	96		93		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-09 Batch: WG661246-1 WG661246-2								
Dichlorodifluoromethane	61		58		36-147	5		20
Acetone	91		81		58-148	12		20
Carbon disulfide	88		90		51-130	2		20
2-Butanone	83		86		63-138	4		20
Vinyl acetate	88		88		70-130	0		20
4-Methyl-2-pentanone	91		92		59-130	1		20
2-Hexanone	88		86		57-130	2		20
Acrolein	96		94		40-160	2		20
Bromochloromethane	103		102		70-130	1		20
2,2-Dichloropropane	90		88		63-133	2		20
1,2-Dibromoethane	99		96		70-130	3		20
1,3-Dichloropropane	96		93		70-130	3		20
1,1,1,2-Tetrachloroethane	93		89		64-130	4		20
Bromobenzene	98		98		70-130	0		20
n-Butylbenzene	92		91		53-136	1		20
sec-Butylbenzene	92		91		70-130	1		20
tert-Butylbenzene	93		91		70-130	2		20
o-Chlorotoluene	94		92		70-130	2		20
p-Chlorotoluene	95		94		70-130	1		20
1,2-Dibromo-3-chloropropane	83		86		41-144	4		20
Hexachlorobutadiene	88		98		63-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-09 Batch: WG661246-1 WG661246-2								
Isopropylbenzene	94		94		70-130	0		20
p-Isopropyltoluene	93		91		70-130	2		20
Naphthalene	103		102		70-130	1		20
n-Propylbenzene	92		91		69-130	1		20
1,2,3-Trichlorobenzene	94		93		70-130	1		20
1,2,4-Trichlorobenzene	93		92		70-130	1		20
1,3,5-Trimethylbenzene	92		92		64-130	0		20
1,2,4-Trimethylbenzene	95		94		70-130	1		20
Methyl Acetate	90		88		70-130	2		20
Ethyl Acetate	85		84		70-130	1		20
Cyclohexane	87		83		70-130	5		20
Ethyl-Tert-Butyl-Ether	94		92		70-130	2		20
Tertiary-Amyl Methyl Ether	97		96		66-130	1		20
1,4-Dioxane	118		134		56-162	13		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		93		70-130	1		20
1,4-Diethylbenzene	95		94		70-130	1		20
4-Ethyltoluene	95		93		70-130	2		20
1,2,4,5-Tetramethylbenzene	92		89		70-130	3		20
Ethyl ether	107		105		59-134	2		20
trans-1,4-Dichloro-2-butene	82		81		70-130	1		20
Methyl cyclohexane	90		86		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT

Project Number: 08-8696

Lab Number: L1325851

Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-09 Batch: WG661246-1 WG661246-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	83		84		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	104		103		70-130
Dibromofluoromethane	96		96		70-130

METALS

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-02
Client ID: MW-46
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 08:15
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0987		mg/l	0.0100	0.00200	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Antimony, Total	0.00051	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00246		mg/l	0.00050	0.00020	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Barium, Total	0.08236		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Boron, Total	0.249		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 12:09	EPA 3005A	1,6010C	JH
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Calcium, Total	140		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 12:09	EPA 3005A	1,6010C	JH
Chromium, Total	0.00074	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00092		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Copper, Total	0.00075	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Iron, Total	1.03		mg/l	0.0500	0.0130	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Lead, Total	0.00027	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Magnesium, Total	53.		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 12:09	EPA 3005A	1,6010C	JH
Manganese, Total	0.3777		mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:28	EPA 7470A	1,7470A	JH
Nickel, Total	0.00140		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Potassium, Total	4.70		mg/l	0.100	0.0270	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Selenium, Total	0.00087	J	mg/l	0.00500	0.00030	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Sodium, Total	46.7		mg/l	1.00	0.150	10	12/26/13 10:20	12/27/13 23:01	EPA 3005A	1,6020A	BM
Thallium, Total	0.00003	J	mg/l	0.00050	0.00003	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00032	J	mg/l	0.00500	0.00010	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Zinc, Total	0.00409	J	mg/l	0.01000	0.00120	1	12/26/13 10:20	12/28/13 00:04	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	570		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 12:09	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-03
Client ID: MW-47
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 08:40
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0285		mg/l	0.0100	0.00200	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Antimony, Total	0.00048	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00186		mg/l	0.00050	0.00020	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Barium, Total	0.07925		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Boron, Total	0.290		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 15:11	EPA 3005A	1,6010C	JH
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Calcium, Total	120		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 15:11	EPA 3005A	1,6010C	JH
Chromium, Total	0.00067	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00106		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Copper, Total	0.00067	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Iron, Total	0.536		mg/l	0.0500	0.0130	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Lead, Total	0.00020	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Magnesium, Total	48.		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 15:11	EPA 3005A	1,6010C	JH
Manganese, Total	0.3734		mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:30	EPA 7470A	1,7470A	JH
Nickel, Total	0.00412		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Potassium, Total	4.68		mg/l	0.100	0.0270	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Selenium, Total	0.00096	J	mg/l	0.00500	0.00030	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Sodium, Total	31.0		mg/l	0.100	0.0150	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Thallium, Total	0.00005	J	mg/l	0.00050	0.00003	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00047	J	mg/l	0.00500	0.00010	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Zinc, Total	0.00239	J	mg/l	0.01000	0.00120	1	12/26/13 10:20	12/28/13 00:16	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	500		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 15:11	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-04
Client ID: MW-48
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 09:10
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.148		mg/l	0.0100	0.00200	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Antimony, Total	0.00030	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00212		mg/l	0.00050	0.00020	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Barium, Total	0.2177		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Boron, Total	0.232		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 15:54	EPA 3005A	1,6010C	JH
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Calcium, Total	230		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 15:54	EPA 3005A	1,6010C	JH
Chromium, Total	0.00082	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00046	J	mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Copper, Total	0.00092	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Iron, Total	2.17		mg/l	0.0500	0.0130	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Lead, Total	0.00021	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Magnesium, Total	76.		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 15:54	EPA 3005A	1,6010C	JH
Manganese, Total	0.5940		mg/l	0.01000	0.00100	10	12/26/13 10:20	12/28/13 00:22	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:32	EPA 7470A	1,7470A	JH
Nickel, Total	0.00228		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Potassium, Total	5.34		mg/l	0.100	0.0270	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Selenium, Total	0.00137	J	mg/l	0.00500	0.00030	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Sodium, Total	85.4		mg/l	1.00	0.150	10	12/26/13 10:20	12/28/13 00:22	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00029	J	mg/l	0.00500	0.00010	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Zinc, Total	0.00314	J	mg/l	0.01000	0.00120	1	12/26/13 10:20	12/28/13 00:29	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	880		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 15:54	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-05
Client ID: MW-49
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 11:05
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0429		mg/l	0.0200	0.00400	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Antimony, Total	0.00114	J	mg/l	0.00200	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00231		mg/l	0.00100	0.00040	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Barium, Total	0.4136		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Boron, Total	0.340		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 15:58	EPA 3005A	1,6010C	JH
Cadmium, Total	ND		mg/l	0.00040	0.00010	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Calcium, Total	390		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 15:58	EPA 3005A	1,6010C	JH
Chromium, Total	0.00093	J	mg/l	0.00200	0.00040	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00232		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Copper, Total	0.00172	J	mg/l	0.00200	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Iron, Total	2.28		mg/l	0.100	0.0260	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00200	0.00040	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Magnesium, Total	130		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 15:58	EPA 3005A	1,6010C	JH
Manganese, Total	0.8840		mg/l	0.02000	0.00200	20	12/26/13 10:20	12/28/13 00:35	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:34	EPA 7470A	1,7470A	JH
Nickel, Total	0.00495		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Potassium, Total	9.21		mg/l	0.200	0.0540	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Selenium, Total	0.00284	J	mg/l	0.0100	0.00060	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Sodium, Total	285.		mg/l	2.00	0.300	20	12/26/13 10:20	12/28/13 00:35	EPA 3005A	1,6020A	BM
Thallium, Total	0.00009	J	mg/l	0.00100	0.00006	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.01000	0.00020	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Zinc, Total	0.00607	J	mg/l	0.02000	0.00240	2	12/26/13 10:20	12/28/13 00:53	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1500		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 15:58	EPA 3005A	1,6010C	JH

Project Name:	US SALT	**Lab Number:**	L1325851
Project Number:	08-8696	**Report Date:**	12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-06	Date Collected:	12/19/13 10:30
Client ID:	MW-44	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.244		mg/l	0.0200	0.00400	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00200	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00222		mg/l	0.00100	0.00040	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Barium, Total	0.2790		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Boron, Total	0.140		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 16:02	EPA 3005A	1,6010C	JH
Cadmium, Total	ND		mg/l	0.00040	0.00010	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Calcium, Total	450		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 16:02	EPA 3005A	1,6010C	JH
Chromium, Total	0.00127	J	mg/l	0.00200	0.00040	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00103		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Copper, Total	0.00165	J	mg/l	0.00200	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Iron, Total	3.69		mg/l	0.100	0.0260	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00200	0.00040	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Magnesium, Total	130		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 16:02	EPA 3005A	1,6010C	JH
Manganese, Total	0.5640		mg/l	0.00200	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:36	EPA 7470A	1,7470A	JH
Nickel, Total	0.00408		mg/l	0.00100	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Potassium, Total	6.13		mg/l	0.200	0.0540	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Selenium, Total	0.00346	J	mg/l	0.0100	0.00060	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00080	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Sodium, Total	456.		mg/l	2.00	0.300	20	12/26/13 10:20	12/28/13 01:04	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00100	0.00006	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00039	J	mg/l	0.01000	0.00020	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Zinc, Total	0.00650	J	mg/l	0.02000	0.00240	2	12/26/13 10:20	12/28/13 01:10	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1700		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 16:02	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-07
Client ID: MW-45
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 10:00
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.229		mg/l	0.0100	0.00200	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00293		mg/l	0.00050	0.00020	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Barium, Total	0.04157		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Boron, Total	0.110		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 16:06	EPA 3005A	1,6010C	JH
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Calcium, Total	140		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 16:06	EPA 3005A	1,6010C	JH
Chromium, Total	0.00100		mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00035	J	mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Copper, Total	0.00088	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Iron, Total	2.05		mg/l	0.0500	0.0130	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Magnesium, Total	61.		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 16:06	EPA 3005A	1,6010C	JH
Manganese, Total	0.4564		mg/l	0.01000	0.00100	10	12/26/13 10:20	12/28/13 01:17	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:37	EPA 7470A	1,7470A	JH
Nickel, Total	0.00141		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Potassium, Total	3.36		mg/l	0.100	0.0270	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Selenium, Total	0.00110	J	mg/l	0.00500	0.00030	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Sodium, Total	34.6		mg/l	0.100	0.0150	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00032	J	mg/l	0.00500	0.00010	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Zinc, Total	0.00325	J	mg/l	0.01000	0.00120	1	12/26/13 10:20	12/28/13 01:23	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	600		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 16:06	EPA 3005A	1,6010C	JH

Project Name:	US SALT	**Lab Number:**	L1325851
Project Number:	08-8696	**Report Date:**	12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-08	Date Collected:	12/19/13 09:40
Client ID:	MW-43	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0356		mg/l	0.0100	0.00200	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Antimony, Total	0.00015	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00355		mg/l	0.00050	0.00020	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Barium, Total	0.03643		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Boron, Total	0.105		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 16:10	EPA 3005A	1,6010C	JH
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Calcium, Total	76		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 16:10	EPA 3005A	1,6010C	JH
Chromium, Total	0.00067	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00077		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Copper, Total	0.00070	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Iron, Total	1.01		mg/l	0.0500	0.0130	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Magnesium, Total	54.		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 16:10	EPA 3005A	1,6010C	JH
Manganese, Total	1.058		mg/l	0.01000	0.00100	10	12/26/13 10:20	12/28/13 01:29	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:43	EPA 7470A	1,7470A	JH
Nickel, Total	0.00528		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Potassium, Total	6.92		mg/l	0.100	0.0270	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Selenium, Total	0.00060	J	mg/l	0.00500	0.00030	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Sodium, Total	36.5		mg/l	0.100	0.0150	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00020	J	mg/l	0.00500	0.00010	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Zinc, Total	0.00212	J	mg/l	0.01000	0.00120	1	12/26/13 10:20	12/28/13 01:35	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	410		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 16:10	EPA 3005A	1,6010C	JH

Project Name:	US SALT	**Lab Number:**	L1325851
Project Number:	08-8696	**Report Date:**	12/30/13

SAMPLE RESULTS

Lab ID:	L1325851-09	Date Collected:	12/19/13 11:30
Client ID:	MW-50	Date Received:	12/19/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0482		mg/l	0.0100	0.00200	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Antimony, Total	0.00019	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00138		mg/l	0.00050	0.00020	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Barium, Total	0.2486		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Boron, Total	0.057		mg/l	0.030	0.007	1	12/26/13 10:20	12/28/13 12:35	EPA 3005A	1,6010C	JH
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Calcium, Total	200		mg/l	0.10	0.03	1	12/26/13 10:20	12/28/13 12:35	EPA 3005A	1,6010C	JH
Chromium, Total	0.00070	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00028	J	mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Copper, Total	0.00089	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Iron, Total	3.14		mg/l	0.0500	0.0130	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Magnesium, Total	84.		mg/l	0.10	0.010	1	12/26/13 10:20	12/28/13 12:35	EPA 3005A	1,6010C	JH
Manganese, Total	0.3467		mg/l	0.00100	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 10:45	EPA 7470A	1,7470A	JH
Nickel, Total	0.00139		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Potassium, Total	7.26		mg/l	0.100	0.0270	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Selenium, Total	0.00152	J	mg/l	0.00500	0.00030	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Sodium, Total	238.		mg/l	1.00	0.150	10	12/26/13 10:20	12/28/13 01:41	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00014	J	mg/l	0.00500	0.00010	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Zinc, Total	0.00545	J	mg/l	0.01000	0.00120	1	12/26/13 10:20	12/28/13 01:48	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	850		mg/l	0.66	NA	1	12/26/13 10:20	12/28/13 12:35	EPA 3005A	1,6010C	JH

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-09 Batch: WG661023-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/23/13 15:15	12/24/13 09:58	1,7470A	JH

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-09 Batch: WG661488-1										
Boron, Total	ND		mg/l	0.030	0.007	1	12/26/13 10:20	12/27/13 12:02	1,6010C	JH
Calcium, Total	ND		mg/l	0.10	0.03	1	12/26/13 10:20	12/27/13 12:02	1,6010C	JH
Magnesium, Total	ND		mg/l	0.10	0.010	1	12/26/13 10:20	12/27/13 12:02	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 02-09 Batch: WG661488-1										
Hardness	ND		mg/l	0.66	NA	1	12/26/13 10:20	12/27/13 12:02	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-09 Batch: WG661800-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

Method Blank Analysis
Batch Quality Control

Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Chromium, Total	0.00044	J	mg/l	0.00100	0.00020	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Copper, Total	ND		mg/l	0.00100	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Manganese, Total	0.00034	J	mg/l	0.00100	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Nickel, Total	ND		mg/l	0.00050	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Sodium, Total	ND		mg/l	0.100	0.0150	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	12/26/13 10:20	12/27/13 22:42	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT

Project Number: 08-8696

Lab Number: L1325851

Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-09 Batch: WG661023-2								
Mercury, Total	88		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 02-09 Batch: WG661488-2								
Boron, Total	116		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-09 Batch: WG661488-2								
Hardness	100		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-09 Batch: WG661800-2					
Aluminum, Total	102	-	80-120	-	
Antimony, Total	90	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	94	-	80-120	-	
Beryllium, Total	96	-	80-120	-	
Cadmium, Total	97	-	80-120	-	
Chromium, Total	97	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	99	-	80-120	-	
Iron, Total	102	-	80-120	-	
Lead, Total	103	-	80-120	-	
Manganese, Total	97	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	101	-	80-120	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	95	-	80-120	-	
Sodium, Total	99	-	80-120	-	
Thallium, Total	97	-	80-120	-	
Vanadium, Total	97	-	80-120	-	
Zinc, Total	106	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661023-4 QC Sample: L1325713-01 Client ID: MS Sample												
Mercury, Total	0.00439	0.005	0.00747	**62**	Q	-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661488-4 QC Sample: L1325851-02 Client ID: MW-46												
Boron, Total	0.249	1	1.54	**129**	Q	-	-		75-125	-		20
Calcium, Total	140	10	150	100		-	-		75-125	-		20
Magnesium, Total	53.	10	62	90		-	-		75-125	-		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661488-4 QC Sample: L1325851-02 Client ID: MW-46												
Hardness	570	66.2	620	76		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661800-4 QC Sample: L1325851-02 Client ID: MW-46										
Aluminum, Total	0.0987	2	2.29	109		-	-	80-120	-	20
Antimony, Total	0.00051J	0.5	0.4936	99		-	-	80-120	-	20
Arsenic, Total	0.00246	0.12	0.1331	111		-	-	80-120	-	20
Barium, Total	0.08236	2	2.029	97		-	-	80-120	-	20
Beryllium, Total	ND	0.05	0.05096	102		-	-	80-120	-	20
Cadmium, Total	0.00006J	0.051	0.04986	98		-	-	80-120	-	20
Chromium, Total	0.00074J	0.2	0.2051	102		-	-	80-120	-	20
Cobalt, Total	0.00092	0.5	0.5171	103		-	-	80-120	-	20
Copper, Total	0.00075J	0.25	0.2603	104		-	-	80-120	-	20
Iron, Total	1.03	1	2.19	111		-	-	80-120	-	20
Lead, Total	0.00027J	0.51	0.5719	112		-	-	80-120	-	20
Manganese, Total	0.3777	0.5	0.9500	113		-	-	80-120	-	20
Nickel, Total	0.00140	0.5	0.5186	104		-	-	80-120	-	20
Potassium, Total	4.70	10	15.6	108		-	-	80-120	-	20
Selenium, Total	0.00087J	0.12	0.131	109		-	-	80-120	-	20
Silver, Total	ND	0.05	0.04818	96		-	-	80-120	-	20
Sodium, Total	46.7	10	59.8	**131**	Q	-	-	80-120	-	20
Thallium, Total	0.00003J	0.12	0.1271	106		-	-	80-120	-	20
Vanadium, Total	0.00032J	0.5	0.5135	103		-	-	80-120	-	20
Zinc, Total	0.00409J	0.5	0.5404	108		-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661023-3 QC Sample: L1325713-01 Client ID: DUP Sample						
Mercury, Total	0.00439	0.00313	mg/l	**33**	Q	20
Total Metals - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661488-3 QC Sample: L1325851-02 Client ID: MW-46						
Boron, Total	0.249	0.244	mg/l	2		20
Calcium, Total	140	140	mg/l	0		20
Magnesium, Total	53.	52	mg/l	2		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661488-3 QC Sample: L1325851-02 Client ID: MW-46						
Hardness	570	560	mg/l	2		20
Total Metals - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661800-3 QC Sample: L1325851-02 Client ID: MW-46						
Sodium, Total	46.7	47.1	mg/l	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661800-3 QC Sample: L1325851-02 Client ID: MW-46					
Aluminum, Total	0.0987	0.103	mg/l	4	20
Antimony, Total	0.00051J	0.00042J	mg/l	NC	20
Arsenic, Total	0.00246	0.00254	mg/l	3	20
Barium, Total	0.08236	0.08052	mg/l	2	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	0.00006J	0.00006J	mg/l	NC	20
Chromium, Total	0.00074J	0.00079J	mg/l	NC	20
Cobalt, Total	0.00092	0.00091	mg/l	1	20
Copper, Total	0.00075J	0.00081J	mg/l	NC	20
Iron, Total	1.03	1.03	mg/l	0	20
Lead, Total	0.00027J	0.00028J	mg/l	NC	20
Manganese, Total	0.3777	0.3750	mg/l	1	20
Nickel, Total	0.00140	0.00144	mg/l	3	20
Potassium, Total	4.70	4.62	mg/l	2	20
Selenium, Total	0.00087J	0.00090J	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Thallium, Total	0.00003J	ND	mg/l	NC	20
Vanadium, Total	0.00032J	0.00041J	mg/l	NC	20
Zinc, Total	0.00409J	0.00321J	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-02
Client ID: MW-46
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 08:15
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	8.0		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	344.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	710		mg/l	10	3.6	1	-	12/20/13 14:30	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:10	1,9010C/9012B	DE
Nitrogen, Ammonia	0.314		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:43	44,350.1	AT
Nitrogen, Nitrate	0.047	J	mg/l	0.10	0.015	1	-	12/20/13 03:51	44,353.2	DB
Nitrogen, Total Kjeldahl	0.50		mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:30	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:42	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	1.93		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/20/13 10:30	12/20/13 15:31	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:29	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.100	10	-	12/23/13 19:12	44,300.0	AU
Chloride	197.		mg/l	5.00	1.68	10	-	12/23/13 19:12	44,300.0	AU
Sulfate	87.0		mg/l	10.0	2.29	10	-	12/23/13 19:12	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-03
Client ID: MW-47
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 08:40
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	375.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	620		mg/l	10	3.6	1	-	12/20/13 14:30	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:11	1,9010C/9012B	DE
Nitrogen, Ammonia	0.343		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:43	44,350.1	AT
Nitrogen, Nitrate	0.043	J	mg/l	0.10	0.015	1	-	12/20/13 03:51	44,353.2	DB
Nitrogen, Total Kjeldahl	0.46		mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:31	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	4.4	J	mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:42	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	1.86		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 13:26	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:30	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.110	J	mg/l	0.500	0.100	10	-	12/23/13 19:24	44,300.0	AU
Chloride	107.		mg/l	5.00	1.68	10	-	12/23/13 19:24	44,300.0	AU
Sulfate	92.9		mg/l	10.0	2.29	10	-	12/23/13 19:24	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-04
Client ID: MW-48
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 09:10
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	12		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	303.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	1200		mg/l	10	3.6	1	-	12/20/13 14:30	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:13	1,9010C/9012B	DE
Nitrogen, Ammonia	0.561		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:44	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/20/13 03:52	44,353.2	DB
Nitrogen, Total Kjeldahl	0.65		mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:32	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:43	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	1.74		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 13:27	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:30	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.250	25	-	12/23/13 21:03	44,300.0	AU
Chloride	576.		mg/l	12.5	4.20	25	-	12/23/13 21:03	44,300.0	AU
Sulfate	50.0		mg/l	25.0	5.72	25	-	12/23/13 21:03	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-05
Client ID: MW-49
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 11:05
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	12		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	328.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	2.8		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	2600		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:14	1,9010C/9012B	DE
Nitrogen, Ammonia	1.10		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:45	44,350.1	AT
Nitrogen, Nitrate	0.074	J	mg/l	0.10	0.015	1	-	12/20/13 03:55	44,353.2	DB
Nitrogen, Total Kjeldahl	1.4		mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:33	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:44	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	2.31		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 13:28	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:30	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.50	0.500	50	-	12/23/13 19:48	44,300.0	AU
Chloride	1400		mg/l	25.0	8.40	50	-	12/23/13 19:48	44,300.0	AU
Sulfate	83.1		mg/l	50.0	11.4	50	-	12/23/13 19:48	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-06
Client ID: MW-44
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 10:30
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	14		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	312.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	3.6		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	3300		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:16	1,9010C/9012B	DE
Nitrogen, Ammonia	0.371		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:46	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/20/13 03:56	44,353.2	DB
Nitrogen, Total Kjeldahl	0.39		mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:34	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:44	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	1.89		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 13:28	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:30	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.50	0.500	50	-	12/23/13 20:00	44,300.0	AU
Chloride	1800		mg/l	25.0	8.40	50	-	12/23/13 20:00	44,300.0	AU
Sulfate	92.5		mg/l	50.0	11.4	50	-	12/23/13 20:00	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-07
Client ID: MW-45
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 10:00
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	12		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	392.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	730		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:17	1,9010C/9012B	DE
Nitrogen, Ammonia	0.144		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:47	44,350.1	AT
Nitrogen, Nitrate	0.084	J	mg/l	0.10	0.015	1	-	12/20/13 03:56	44,353.2	DB
Nitrogen, Total Kjeldahl	0.32		mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:44	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	2.32		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 13:29	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:31	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.100	10	-	12/23/13 20:12	44,300.0	AU
Chloride	139.		mg/l	5.00	1.68	10	-	12/23/13 20:12	44,300.0	AU
Sulfate	136.		mg/l	10.0	2.29	10	-	12/23/13 20:12	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-08
Client ID: MW-43
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 09:40
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	17		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	407.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	540		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:18	1,9010C/9012B	DE
Nitrogen, Ammonia	0.083		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:52	44,350.1	AT
Nitrogen, Nitrate	0.045	J	mg/l	0.10	0.015	1	-	12/20/13 03:57	44,353.2	DB
Nitrogen, Total Kjeldahl	0.54		mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:44	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	3.51		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 16:27	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:31	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.093		mg/l	0.050	0.010	1	-	12/23/13 18:24	44,300.0	AU
Chloride	25.7		mg/l	0.500	0.168	1	-	12/23/13 18:24	44,300.0	AU
Sulfate	75.9		mg/l	1.00	0.229	1	-	12/23/13 18:24	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

SAMPLE RESULTS

Lab ID: L1325851-09
Client ID: MW-50
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/19/13 11:30
Date Received: 12/19/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	18		A.P.C.U.	5.0	5.0	1	-	12/20/13 01:45	30,2120B	JT
Alkalinity, Total	380.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/20/13 00:50	30,2520B	EL
Solids, Total Dissolved	1400		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:19	1,9010C/9012B	DE
Nitrogen, Ammonia	0.062	J	mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:53	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/20/13 03:58	44,353.2	DB
Nitrogen, Total Kjeldahl	0.10	J	mg/l	0.30	0.093	1	12/24/13 02:40	12/26/13 19:36	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:45	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
Total Organic Carbon	2.50		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 16:28	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:31	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.608	J	mg/l	2.50	0.500	50	-	12/23/13 17:48	44,300.0	AU
Chloride	723.		mg/l	25.0	8.40	50	-	12/23/13 17:48	44,300.0	AU
Sulfate	71.8		mg/l	50.0	11.4	50	-	12/23/13 17:48	44,300.0	AU

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG660442-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/20/13 03:24	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG660456-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/20/13 01:05	12/20/13 01:29	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG660465-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/20/13 07:30	12/26/13 15:20	30,5210B	DE
General Chemistry - Westborough Lab for sample(s): 02-04 Batch: WG660500-1										
Solids, Total Dissolved	6.0	J	mg/l	10	3.6	1	-	12/20/13 14:30	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG660565-1										
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/20/13 10:30	12/20/13 12:35	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG660628-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/20/13 10:50	12/23/13 13:07	1,9010C/9012B	DE
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG660704-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/23/13 17:00	12/23/13 19:38	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 05-09 Batch: WG660943-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 03-09 Batch: WG660981-1										
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/23/13 11:15	12/23/13 13:25	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG661192-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	12/23/13 21:35	12/24/13 18:32	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG661194-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.031	1	12/24/13 02:40	12/26/13 19:19	4,351.3/.1 (M)	AT
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-09 Batch: WG661406-1										
Chloride	ND		mg/l	0.500	0.168	1	-	12/23/13 16:47	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-09 Batch: WG661406-1										
Bromide	ND		mg/l	0.050	0.010	1	-	12/23/13 16:47	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	12/23/13 16:47	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG661409-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD

Project Name: US SALT
Project Number: 08-8696
Lab Number: L1325851
Report Date: 12/30/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-09 Batch: WG661801-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	12/27/13 06:56	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG660442-2								
Nitrogen, Nitrate	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG660454-1								
SALINITY	100		-			-		
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG660456-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG660465-2								
BOD, 5 day	99		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-04 Batch: WG660500-2								
Solids, Total Dissolved	97		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG660565-2								
Phenolics, Total	108		-		82-111	-		12
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG660628-4 WG660628-5								
Cyanide, Total	88		91		80-120	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG660704-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 05-09 Batch: WG660943-2					
Solids, Total Dissolved	95	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 03-09 Batch: WG660981-2					
Phenolics, Total	101	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG661192-2					
Nitrogen, Ammonia	94	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG661194-2					
Nitrogen, Total Kjeldahl	92	-	78-122	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-09 Batch: WG661406-2					
Bromide	106	-	90-110	-	
Chloride	109	-	90-110	-	
Sulfate	105	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG661409-2					
Alkalinity, Total	103	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 02-09 Batch: WG661801-2					
Total Organic Carbon	96	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660442-4 QC Sample: L1325803-02 Client ID: MS Sample												
Nitrogen, Nitrate	1.8	4	5.5	93		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660456-4 QC Sample: L1325851-09 Client ID: MW-50												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660465-4 QC Sample: L1325851-03 Client ID: MW-47												
BOD, 5 day	ND	100	110	111		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG660565-4 QC Sample: L1325148-01 Client ID: MS Sample												
Phenolics, Total	0.030	0.8	0.87	105		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660628-3 WG660628-2 QC Sample: L1325851-03 Client ID: MW-47												
Cyanide, Total	ND	0.2	0.175	88		0.196	98		80-120	11		20
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660704-3 QC Sample: L1325851-09 Client ID: MW-50												
Chemical Oxygen Demand	ND	47.6	43	90		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03-09 QC Batch ID: WG660981-4 QC Sample: L1325851-09 Client ID: MW-50												
Phenolics, Total	ND	0.8	0.86	108		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661192-4 QC Sample: L1325233-01 Client ID: MS Sample												
Nitrogen, Ammonia	0.536	4	4.09	89		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661194-4 QC Sample: L1325851-09 Client ID: MW-50												
Nitrogen, Total Kjeldahl	0.10J	8	7.4	92		-	-		77-111	-		24

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661406-3 QC Sample: L1325851-08 Client ID: MW-43									
Bromide	0.093	0.4	0.482	97	-	-	77-119	-	20
Chloride	25.7	4	28.9	80	-	-	40-151	-	18
Sulfate	75.9	8	80.9	62	-	-	60-140	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661409-3 QC Sample: L1325851-08 Client ID: MW-43									
Alkalinity, Total	407.	100	507	100	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661801-4 QC Sample: L1325824-02 Client ID: MS Sample									
Total Organic Carbon	11.9	40	56.7	112	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660442-3 QC Sample: L1325803-02 Client ID: DUP Sample						
Nitrogen, Nitrate	1.8	1.7	mg/l	5		6
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660454-2 QC Sample: L1325851-02 Client ID: MW-46						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660456-3 QC Sample: L1325851-02 Client ID: MW-46						
Chromium, Hexavalent	0.004J	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660465-3 QC Sample: L1325851-02 Client ID: MW-46						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660478-1 QC Sample: L1325851-08 Client ID: MW-43						
Color, Apparent	17.	17	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 02-04 QC Batch ID: WG660500-3 QC Sample: L1325718-01 Client ID: DUP Sample						
Solids, Total Dissolved	3000	3000	mg/l	0		17
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG660565-3 QC Sample: L1325638-14 Client ID: DUP Sample						
Phenolics, Total	0.030	0.030	mg/l	0		12
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG660704-4 QC Sample: L1325851-09 Client ID: MW-50						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05-09 QC Batch ID: WG660943-3 QC Sample: L1325851-09 Client ID: MW-50						
Solids, Total Dissolved	1400	1400	mg/l	0		17

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03-09 QC Batch ID: WG660981-3 QC Sample: L1325866-01 Client ID: DUP Sample					
Phenolics, Total	0.020J	0.020J	mg/l	NC	12
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661192-3 QC Sample: L1325233-01 Client ID: DUP Sample					
Nitrogen, Ammonia	0.536	0.529	mg/l	1	20
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661194-3 QC Sample: L1325851-09 Client ID: MW-50					
Nitrogen, Total Kjeldahl	0.10J	0.16J	mg/l	NC	24
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661406-4 QC Sample: L1325851-08 Client ID: MW-43					
Bromide	0.093	0.102	mg/l	9	20
Chloride	25.7	25.7	mg/l	0	18
Sulfate	75.9	75.9	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661409-4 QC Sample: L1325851-08 Client ID: MW-43					
Alkalinity, Total	407.	410	mg CaCO3/L	1	10
General Chemistry - Westborough Lab Associated sample(s): 02-09 QC Batch ID: WG661801-3 QC Sample: L1325824-02 Client ID: DUP Sample					
Total Organic Carbon	11.9	12.1	mg/l	2	20

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325851-01A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-01B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-02A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-02B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-02C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-02D	Vial H2SO4 preserved	A	N/A	4.3	Y	Absent	TOC-5310(28)
L1325851-02E	Vial H2SO4 preserved	A	N/A	4.3	Y	Absent	TOC-5310(28)
L1325851-02F	Amber 500ml H2SO4 preserved	A	<2	4.3	Y	Absent	TPHENOL-420(28)
L1325851-02G	Plastic 1000ml unpreserved	A	7	4.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-02H	Plastic 500ml unpreserved	A	7	4.3	Y	Absent	BOD-5210(2)
L1325851-02I	Plastic 500ml H2SO4 preserved	A	<2	4.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325851-02J	Plastic 500ml HNO3 preserved	A	<2	4.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-02K	Plastic 250ml unpreserved	A	7	4.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-02L	Plastic 250ml NaOH preserved	A	>12	4.3	Y	Absent	TCN-9010(14)
L1325851-02M	Plastic 250ml unpreserved	A	7	4.3	Y	Absent	ALK-T-2320(14)
L1325851-02N	Amber 250ml unpreserved	A	7	4.3	Y	Absent	SALINITY(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325851-03A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-03B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-03C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-03D	Vial H2SO4 preserved	A	N/A	4.3	Y	Absent	TOC-5310(28)
L1325851-03E	Vial H2SO4 preserved	A	N/A	4.3	Y	Absent	TOC-5310(28)
L1325851-03F	Amber 500ml H2SO4 preserved	A	<2	4.3	Y	Absent	TPHENOL-420(28)
L1325851-03G	Plastic 1000ml unpreserved	A	7	4.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-03H	Plastic 500ml unpreserved	A	7	4.3	Y	Absent	BOD-5210(2)
L1325851-03I	Plastic 500ml H2SO4 preserved	A	<2	4.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325851-03J	Plastic 500ml HNO3 preserved	A	<2	4.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-03K	Plastic 250ml unpreserved	A	7	4.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-03L	Plastic 250ml NaOH preserved	A	>12	4.3	Y	Absent	TCN-9010(14)
L1325851-03M	Plastic 250ml unpreserved	A	7	4.3	Y	Absent	ALK-T-2320(14)
L1325851-03N	Amber 250ml unpreserved	A	7	4.3	Y	Absent	SALINITY(28)
L1325851-04A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-04B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-04C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-04D	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1325851-04E	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1325851-04F	Amber 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TPHENOL-420(28)
L1325851-04G	Plastic 1000ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-04H	Plastic 500ml unpreserved	B	7	4.9	Y	Absent	BOD-5210(2)
L1325851-04I	Plastic 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325851-04J	Plastic 500ml HNO3 preserved	B	<2	4.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-04K	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-04L	Plastic 250ml NaOH preserved	B	>12	4.9	Y	Absent	TCN-9010(14)
L1325851-04M	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	ALK-T-2320(14)
L1325851-04N	Amber 250ml unpreserved	B	7	4.9	Y	Absent	SALINITY(28)
L1325851-05A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-05B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-05C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-05D	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1325851-05E	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1325851-05F	Amber 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TPHENOL-420(28)
L1325851-05G	Plastic 1000ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-05H	Plastic 500ml unpreserved	B	7	4.9	Y	Absent	BOD-5210(2)
L1325851-05I	Plastic 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325851-05J	Plastic 500ml HNO3 preserved	B	<2	4.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-05K	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-05L	Plastic 250ml NaOH preserved	B	>12	4.9	Y	Absent	TCN-9010(14)
L1325851-05M	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	ALK-T-2320(14)
L1325851-05N	Amber 250ml unpreserved	B	7	4.9	Y	Absent	SALINITY(28)
L1325851-06A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325851-06B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-06C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-06D	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1325851-06E	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1325851-06F	Amber 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TPHENOL-420(28)
L1325851-06G	Plastic 1000ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-06H	Plastic 500ml unpreserved	B	7	4.9	Y	Absent	BOD-5210(2)
L1325851-06I	Plastic 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325851-06J	Plastic 500ml HNO3 preserved	B	<2	4.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-06K	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-06L	Plastic 250ml NaOH preserved	B	>12	4.9	Y	Absent	TCN-9010(14)
L1325851-06M	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	ALK-T-2320(14)
L1325851-06N	Amber 250ml unpreserved	B	7	4.9	Y	Absent	SALINITY(28)
L1325851-07A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-07B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-07C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-07D	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1325851-07E	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1325851-07F	Amber 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TPHENOL-420(28)
L1325851-07G	Plastic 1000ml unpreserved	C	7	5.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-07H	Plastic 500ml unpreserved	C	7	5.4	Y	Absent	BOD-5210(2)
L1325851-07I	Plastic 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325851-07J	Plastic 500ml HNO3 preserved	C	<2	5.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-07K	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-07L	Plastic 250ml NaOH preserved	C	>12	5.4	Y	Absent	TCN-9010(14)
L1325851-07M	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	ALK-T-2320(14)
L1325851-07N	Amber 250ml unpreserved	C	7	5.4	Y	Absent	SALINITY(28)
L1325851-08A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-08B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-08C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-08D	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1325851-08E	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1325851-08F	Amber 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TPHENOL-420(28)
L1325851-08G	Plastic 1000ml unpreserved	C	7	5.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-08H	Plastic 500ml unpreserved	C	7	5.4	Y	Absent	BOD-5210(2)
L1325851-08I	Plastic 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325851-08J	Plastic 500ml HNO3 preserved	C	<2	5.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-08K	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-08L	Plastic 250ml NaOH preserved	C	>12	5.4	Y	Absent	TCN-9010(14)
L1325851-08M	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	ALK-T-2320(14)
L1325851-08N	Amber 250ml unpreserved	C	7	5.4	Y	Absent	SALINITY(28)
L1325851-09A	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325851-09B	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-09C	Vial HCl preserved	A	N/A	4.3	Y	Absent	NYTCL-8260(14)
L1325851-09D	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1325851-09E	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1325851-09F	Amber 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TPHENOL-420(28)
L1325851-09G	Plastic 1000ml unpreserved	C	7	5.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325851-09H	Plastic 500ml unpreserved	C	7	5.4	Y	Absent	BOD-5210(2)
L1325851-09I	Plastic 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325851-09J	Plastic 500ml HNO3 preserved	C	<2	5.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325851-09K	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325851-09L	Plastic 250ml NaOH preserved	C	>12	5.4	Y	Absent	TCN-9010(14)
L1325851-09M	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	ALK-T-2320(14)
L1325851-09N	Amber 250ml unpreserved	C	7	5.4	Y	Absent	SALINITY(28)

Container Comments

L1325851-02I

L1325851-02N

L1325851-03I

L1325851-03N

L1325851-04I

L1325851-04N

L1325851-05G

L1325851-05I

L1325851-05N

L1325851-06I

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08-8696

Lab Number: L1325851
Report Date: 12/30/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)

Container Comments

L1325851-06N

L1325851-07I

L1325851-07N

L1325851-08I

L1325851-08N

L1325851-09I

L1325851-09N

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1325851
Project Number:	08-8696	**Report Date:**	12/30/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT **Lab Number:** L1325851

Project Number: 08-8696 **Report Date:** 12/30/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT **Lab Number:** L1325851
Project Number: 08-8696 **Report Date:** 12/30/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

stborough, MA Mansfield, MA
: 508-898-9220 TEL: 508-822-9300
: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 12/19/13

ALPHA Job #: L1325851

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #: 08.8696

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

Report Information Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ent Information

ent: CT Male Associates

dress: 50 Centruy Hill Drive

:ham, NY 12110

one: 518.786.7400

x: 518.786.7299

ail: k.moline@ctmale.com

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 12/26/13 Time:

These samples have been Previously analyzed by Alpha

her Project Specific Requirements/Comments/Detection Limits:

CRR Part 360 - Baseline Parameters
tals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe
, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

PHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	TOTAL # BOTTLES
25851.01	Transport blank	12/12/13	9:30	GW	RPH	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		2
.02	MW-46	12/19/13	08:15	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
.03	MW-47	12/19/13	08:40	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
.04	MW-48	12/19/13	09:10	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
.05	MW-49	12/19/13	11:05	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
.06	MW-44	12/19/13	10:30	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
.07	MW-45	12/19/13	10:00	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
.08	MW-43	12/19/13	09:40	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
.09	MW-50	12/19/13	11:30	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
					Container Type	P	P	P	A	P	V	P	P	V	P	A	-		
					Preservative	C	E	A	D	A	D	D	A	B	A	A	-		

ASE ANSWER QUESTIONS ABOVE!

YOUR PROJECT
A MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	12/19/13 1640		12/19/13 1640
	12/19/13 2043		12/19/13 2043
	12/19/13 23:08		12/19/13 23:08

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

NO: 01-01(I)
JUL-07)

ANALYTICAL REPORT

Lab Number:	L1325723
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08.8696
Report Date:	12/31/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1325723-01	MW 51	READING, NY	12/18/13 08:25
L1325723-02	MW 58	READING, NY	12/18/13 09:15
L1325723-03	MW 57	READING, NY	12/18/13 10:00
L1325723-04	MW 55	READING, NY	12/18/13 11:55
L1325723-05	MW 56A	READING, NY	12/18/13 12:55
L1325723-06	MW 54A	READING, NY	12/18/13 13:20
L1325723-07	MW 53	READING, NY	12/18/13 13:45
L1325723-08	MW 52	READING, NY	12/18/13 14:05
L1325723-09	MW-42	READING, NY	12/18/13 16:20
L1325723-10	MW-41	READING, NY	12/18/13 15:50
L1325723-11	TRANSPORT BLANK	READING, NY	12/18/13 00:00
L1325723-12	MW-40	READING, NY	12/18/13 15:15

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

The WG661998-1 Method Blank, associated with L1325723-01 through -10 and -12, has concentrations above the reporting limits for potassium and sodium. Since the associated sample concentrations are greater than 10x the blank concentrations for these elements, no qualification of the results was performed.

The WG662000-4 MS recoveries for calcium (140%) and hardness (136%), performed on L1325723-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG661998-3 Laboratory Duplicate RPD, performed on L1325723-01, is outside the acceptance criteria for antimony (56%). The elevated RPD has been attributed to the non-homogeneous nature of the sample utilized for the Laboratory Duplicate.

Total Organic Carbon

L1325723-08 has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 12/31/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-01	Date Collected:	12/18/13 08:25
Client ID:	MW 51	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 14:27		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-01 Date Collected: 12/18/13 08:25

Client ID: MW 51 Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-02	Date Collected:	12/18/13 09:15
Client ID:	MW 58	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 15:03		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-02 Date Collected: 12/18/13 09:15

Client ID: MW 58 Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-03	Date Collected:	12/18/13 10:00
Client ID:	MW 57	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 15:39		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-03 Date Collected: 12/18/13 10:00

Client ID: MW 57 Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-04	Date Collected:	12/18/13 11:55
Client ID:	MW 55	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 16:15		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-04	Date Collected:	12/18/13 11:55
Client ID:	MW 55	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-05	Date Collected:	12/18/13 12:55
Client ID:	MW 56A	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 16:51		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-05	Date Collected:	12/18/13 12:55
Client ID:	MW 56A	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	104		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-06	Date Collected:	12/18/13 13:20
Client ID:	MW 54A	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 17:27		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-06 Date Collected: 12/18/13 13:20

Client ID: MW 54A Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-07	Date Collected:	12/18/13 13:45
Client ID:	MW 53	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 18:02		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-07 Date Collected: 12/18/13 13:45

Client ID: MW 53 Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-08	Date Collected:	12/18/13 14:05
Client ID:	MW 52	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 18:38		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-08 Date Collected: 12/18/13 14:05

Client ID: MW 52 Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	3.0	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-09	Date Collected:	12/18/13 16:20
Client ID:	MW-42	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 19:14		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-09	Date Collected:	12/18/13 16:20
Client ID:	MW-42	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-10	Date Collected:	12/18/13 15:50
Client ID:	MW-41	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 19:50		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-10 Date Collected: 12/18/13 15:50

Client ID: MW-41 Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-11	Date Collected:	12/18/13 00:00
Client ID:	TRANSPORT BLANK	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 20:26		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-11 Date Collected: 12/18/13 00:00

Client ID: TRANSPORT BLANK Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	105		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-12	Date Collected:	12/18/13 15:15
Client ID:	MW-40	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	12/19/13 21:02		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-12 Date Collected: 12/18/13 15:15

Client ID: MW-40 Date Received: 12/18/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/13 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG660371-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/19/13 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG660371-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG660371-1 WG660371-2								
Methylene chloride	105		101		70-130	4		20
1,1-Dichloroethane	113		110		70-130	3		20
Chloroform	108		104		70-130	4		20
Carbon tetrachloride	113		107		63-132	5		20
1,2-Dichloropropane	109		105		70-130	4		20
Dibromochloromethane	94		92		63-130	2		20
1,1,2-Trichloroethane	107		103		70-130	4		20
Tetrachloroethene	105		100		70-130	5		20
Chlorobenzene	103		100		75-130	3		20
Trichlorofluoromethane	109		103		62-150	6		20
1,2-Dichloroethane	109		105		70-130	4		20
1,1,1-Trichloroethane	109		105		67-130	4		20
Bromodichloromethane	109		104		67-130	5		20
trans-1,3-Dichloropropene	97		93		70-130	4		20
cis-1,3-Dichloropropene	89		87		70-130	2		20
1,1-Dichloropropene	101		97		70-130	4		20
Bromoform	91		86		54-136	6		20
1,1,2,2-Tetrachloroethane	104		101		67-130	3		20
Benzene	112		108		70-130	4		20
Toluene	107		104		70-130	3		20
Ethylbenzene	99		94		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG660371-1 WG660371-2								
Chloromethane	116		106		64-130	9		20
Bromomethane	91		100		39-139	9		20
Vinyl chloride	112		107		55-140	5		20
Chloroethane	98		92		55-138	6		20
1,1-Dichloroethene	105		104		61-145	1		20
trans-1,2-Dichloroethene	108		104		70-130	4		20
Trichloroethene	104		102		70-130	2		20
1,2-Dichlorobenzene	101		100		70-130	1		20
1,3-Dichlorobenzene	102		100		70-130	2		20
1,4-Dichlorobenzene	100		98		70-130	2		20
Methyl tert butyl ether	83		85		63-130	2		20
p/m-Xylene	94		90		70-130	4		20
o-Xylene	92		88		70-130	4		20
cis-1,2-Dichloroethene	96		92		70-130	4		20
Dibromomethane	103		99		70-130	4		20
1,2,3-Trichloropropane	102		101		64-130	1		20
Acrylonitrile	110		112		70-130	2		20
Isopropyl Ether	111		112		70-130	1		20
tert-Butyl Alcohol	83		86		70-130	4		20
Styrene	91		88		70-130	3		20
Dichlorodifluoromethane	123		118		36-147	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG660371-1 WG660371-2								
Acetone	124		126		58-148	2		20
Carbon disulfide	118		107		51-130	10		20
2-Butanone	**139**	Q	**144**	Q	63-138	4		20
Vinyl acetate	88		91		70-130	3		20
4-Methyl-2-pentanone	84		82		59-130	2		20
2-Hexanone	108		107		57-130	1		20
Acrolein	104		108		40-160	4		20
Bromochloromethane	112		106		70-130	6		20
2,2-Dichloropropane	124		123		63-133	1		20
1,2-Dibromoethane	101		99		70-130	2		20
1,3-Dichloropropane	109		105		70-130	4		20
1,1,1,2-Tetrachloroethane	106		102		64-130	4		20
Bromobenzene	101		99		70-130	2		20
n-Butylbenzene	97		91		53-136	6		20
sec-Butylbenzene	98		93		70-130	5		20
tert-Butylbenzene	98		95		70-130	3		20
o-Chlorotoluene	113		110		70-130	3		20
p-Chlorotoluene	109		107		70-130	2		20
1,2-Dibromo-3-chloropropane	102		102		41-144	0		20
Hexachlorobutadiene	108		101		63-130	7		20
Isopropylbenzene	95		91		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG660371-1 WG660371-2								
p-Isopropyltoluene	96		92		70-130	4		20
Naphthalene	83		84		70-130	1		20
n-Propylbenzene	103		99		69-130	4		20
1,2,3-Trichlorobenzene	78		78		70-130	0		20
1,2,4-Trichlorobenzene	84		84		70-130	0		20
1,3,5-Trimethylbenzene	108		104		64-130	4		20
1,2,4-Trimethylbenzene	108		104		70-130	4		20
Methyl Acetate	113		116		70-130	3		20
Ethyl Acetate	105		104		70-130	1		20
Cyclohexane	102		98		70-130	4		20
Ethyl-Tert-Butyl-Ether	89		89		70-130	0		20
Tertiary-Amyl Methyl Ether	88		87		66-130	1		20
1,4-Dioxane	83		84		56-162	1		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	93		91		70-130	2		20
1,4-Diethylbenzene	93		90		70-130	3		20
4-Ethyltoluene	98		95		70-130	3		20
1,2,4,5-Tetramethylbenzene	96		92		70-130	4		20
Ethyl ether	86		86		59-134	0		20
trans-1,4-Dichloro-2-butene	104		103		70-130	1		20
Iodomethane	**60**	Q	71		70-130	17		20
Methyl cyclohexane	98		91		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG660371-1 WG660371-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		105		70-130
Toluene-d8	106		104		70-130
4-Bromofluorobenzene	105		105		70-130
Dibromofluoromethane	106		101		70-130

METALS

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-01
Client ID: MW 51
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 08:25
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.229		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Antimony, Total	0.00721		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00040	J	mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Barium, Total	0.03729		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Boron, Total	0.174		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 18:32	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00016	J	mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Calcium, Total	81		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 15:29	EPA 3005A	1,6010C	JH
Chromium, Total	0.00125		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00017	J	mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Copper, Total	0.00038	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Iron, Total	0.526		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Lead, Total	0.00025	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Magnesium, Total	22.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 15:29	EPA 3005A	1,6010C	JH
Manganese, Total	0.05159		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:28	EPA 7470A	1,7470A	JH
Nickel, Total	0.00078		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Potassium, Total	3.29		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Sodium, Total	18.4		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00059	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Zinc, Total	0.00306	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 17:24	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	290		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 15:29	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-02
Client ID: MW 58
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 09:15
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0664		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Antimony, Total	0.00245		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Arsenic, Total	0.02760		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Barium, Total	0.04673		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Boron, Total	0.110		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:02	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Calcium, Total	86		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:07	EPA 3005A	1,6010C	JH
Chromium, Total	0.00072	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00019	J	mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Copper, Total	0.00024	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Iron, Total	0.349		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Magnesium, Total	23.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:07	EPA 3005A	1,6010C	JH
Manganese, Total	0.04369		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:30	EPA 7470A	1,7470A	JH
Nickel, Total	0.00091		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Potassium, Total	1.61		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Sodium, Total	14.1		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00051	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Zinc, Total	0.00201	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 17:53	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	310		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:07	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-03
Client ID: MW 57
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 10:00
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0812		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Antimony, Total	0.00187		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00573		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Barium, Total	0.06641		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Boron, Total	0.074		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:06	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00012	J	mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Calcium, Total	73		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:11	EPA 3005A	1,6010C	JH
Chromium, Total	0.00076	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00051		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Copper, Total	0.00036	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Iron, Total	0.139		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Magnesium, Total	21.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:11	EPA 3005A	1,6010C	JH
Manganese, Total	0.06661		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:32	EPA 7470A	1,7470A	JH
Nickel, Total	0.01565		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Potassium, Total	3.25		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Sodium, Total	12.6		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00093	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Zinc, Total	0.00302	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:00	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	270		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:11	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-04
Client ID: MW 55
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 11:55
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0635		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Antimony, Total	0.00137		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00866		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Barium, Total	0.03672		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Boron, Total	0.035		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:10	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Calcium, Total	49		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:15	EPA 3005A	1,6010C	JH
Chromium, Total	0.00081	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Cobalt, Total	ND		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Copper, Total	0.00019	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Iron, Total	0.197		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Magnesium, Total	13.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:15	EPA 3005A	1,6010C	JH
Manganese, Total	0.08815		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:34	EPA 7470A	1,7470A	JH
Nickel, Total	0.00042	J	mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Potassium, Total	5.96		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Sodium, Total	10.0		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00028	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Zinc, Total	0.00207	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:07	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:15	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-05
Client ID: MW 56A
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 12:55
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.299		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Antimony, Total	0.00170		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00230		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Barium, Total	0.1221		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Boron, Total	0.257		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:14	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Calcium, Total	46		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:19	EPA 3005A	1,6010C	JH
Chromium, Total	0.00114		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00017	J	mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Copper, Total	0.00035	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Iron, Total	0.326		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:19	EPA 3005A	1,6010C	JH
Manganese, Total	0.04202		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:35	EPA 7470A	1,7470A	JH
Nickel, Total	0.00074		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Potassium, Total	2.46		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Sodium, Total	25.4		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00199	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Zinc, Total	0.00347	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:14	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	160		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:19	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-06
Client ID: MW 54A
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 13:20
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.223		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Antimony, Total	0.00095	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00139		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Barium, Total	0.1423		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Boron, Total	0.190		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:18	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00017	J	mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Calcium, Total	53		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:22	EPA 3005A	1,6010C	JH
Chromium, Total	0.00095	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00013	J	mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Copper, Total	0.00021	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Iron, Total	0.352		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:22	EPA 3005A	1,6010C	JH
Manganese, Total	0.08704		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:37	EPA 7470A	1,7470A	JH
Nickel, Total	0.00060		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Potassium, Total	2.80		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Sodium, Total	16.6		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00063	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Zinc, Total	0.00282	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:29	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:22	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-07
Client ID: MW 53
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 13:45
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.779		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Antimony, Total	0.00089	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00126		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Barium, Total	0.09099		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Boron, Total	0.026	J	mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:22	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Calcium, Total	53		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:26	EPA 3005A	1,6010C	JH
Chromium, Total	0.00225		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00063		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Copper, Total	0.00057	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Iron, Total	1.52		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Lead, Total	0.00051	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Magnesium, Total	14.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:26	EPA 3005A	1,6010C	JH
Manganese, Total	0.05617		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:43	EPA 7470A	1,7470A	JH
Nickel, Total	0.00188		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Potassium, Total	1.81		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Sodium, Total	5.01		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00232	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Zinc, Total	0.00655	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:36	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	190		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:26	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-08
Client ID: MW 52
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 14:05
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.208		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Antimony, Total	0.00125		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00257		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Barium, Total	0.09548		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Boron, Total	0.081		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:26	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00044		mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Calcium, Total	52		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:30	EPA 3005A	1,6010C	JH
Chromium, Total	0.00113		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00020		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Copper, Total	0.00048	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Iron, Total	0.530		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Lead, Total	0.00024	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Magnesium, Total	13.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:30	EPA 3005A	1,6010C	JH
Manganese, Total	0.08700		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:45	EPA 7470A	1,7470A	JH
Nickel, Total	0.00113		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Potassium, Total	2.73		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Sodium, Total	11.0		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00037	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Zinc, Total	0.00465	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:43	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	190		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:30	EPA 3005A	1,6010C	JH

Project Name:	US SALT	**Lab Number:**	L1325723
Project Number:	08.8696	**Report Date:**	12/31/13

SAMPLE RESULTS

Lab ID:	L1325723-09	Date Collected:	12/18/13 16:20
Client ID:	MW-42	Date Received:	12/18/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.350		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Antimony, Total	0.00055	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00068		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Barium, Total	0.04293		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Boron, Total	0.032		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:29	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Calcium, Total	110		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:34	EPA 3005A	1,6010C	JH
Chromium, Total	0.00121		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00101		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Copper, Total	0.00078	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Iron, Total	0.767		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Lead, Total	0.00037	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Magnesium, Total	45.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:34	EPA 3005A	1,6010C	JH
Manganese, Total	0.1861		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:47	EPA 7470A	1,7470A	JH
Nickel, Total	0.01080		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Potassium, Total	2.39		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Sodium, Total	15.1		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00089	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Zinc, Total	0.00392	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:50	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	450		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:34	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-10
Client ID: MW-41
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 15:50
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.111		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Antimony, Total	0.00054	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00055		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Barium, Total	0.02673		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Boron, Total	0.076		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:33	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Calcium, Total	63		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:46	EPA 3005A	1,6010C	JH
Chromium, Total	0.00085	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00026		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Copper, Total	0.00057	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Iron, Total	0.234		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Magnesium, Total	87.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:46	EPA 3005A	1,6010C	JH
Manganese, Total	0.1875		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:49	EPA 7470A	1,7470A	JH
Nickel, Total	0.00128		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Potassium, Total	4.25		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Sodium, Total	21.8		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00074	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Zinc, Total	0.00201	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 18:58	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	520		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:46	EPA 3005A	1,6010C	JH

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-12
Client ID: MW-40
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 15:15
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.125		mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Antimony, Total	0.00070	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00095		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Barium, Total	0.05703		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Boron, Total	0.157		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 19:53	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Calcium, Total	150		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 16:50	EPA 3005A	1,6010C	JH
Chromium, Total	0.00083	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00054		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Copper, Total	0.00071	J	mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Iron, Total	0.225		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Lead, Total	0.00023	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Magnesium, Total	59.		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 16:50	EPA 3005A	1,6010C	JH
Manganese, Total	0.9480		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:50	EPA 7470A	1,7470A	JH
Nickel, Total	0.00453		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Potassium, Total	15.9		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Sodium, Total	52.0		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00141	J	mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Zinc, Total	0.00233	J	mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 19:12	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	620		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 16:50	EPA 3005A	1,6010C	JH

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-10,12 Batch: WG661998-1										
Aluminum, Total	0.00224	J	mg/l	0.0100	0.00200	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Antimony, Total	ND		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Arsenic, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Barium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Chromium, Total	0.00045	J	mg/l	0.00100	0.00020	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Cobalt, Total	ND		mg/l	0.00020	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Copper, Total	ND		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Iron, Total	ND		mg/l	0.0500	0.0130	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Lead, Total	ND		mg/l	0.00050	0.00020	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Manganese, Total	ND		mg/l	0.00100	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Nickel, Total	0.00014	J	mg/l	0.00050	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Potassium, Total	0.118		mg/l	0.100	0.0270	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Selenium, Total	0.00031	J	mg/l	0.00500	0.00030	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Sodium, Total	0.149		mg/l	0.100	0.0150	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Thallium, Total	ND		mg/l	0.00020	0.00003	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL
Zinc, Total	ND		mg/l	0.01000	0.00120	1	12/28/13 07:20	12/28/13 17:06	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-10,12 Batch: WG662000-1										
Boron, Total	ND		mg/l	0.030	0.007	1	12/28/13 07:20	12/30/13 18:06	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.03	1	12/28/13 07:20	12/31/13 15:21	1,6010C	JH
Magnesium, Total	ND		mg/l	0.10	0.010	1	12/28/13 07:20	12/31/13 15:21	1,6010C	JH

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-10,12 Batch: WG662000-1										
Hardness	ND		mg/l	0.66	NA	1	12/28/13 07:20	12/31/13 15:21	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-10,12 Batch: WG662149-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	12/30/13 08:25	12/30/13 11:15	1,7470A	JH

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10,12 Batch: WG661998-2								
Aluminum, Total	99		-		80-120	-		
Antimony, Total	80		-		80-120	-		
Arsenic, Total	100		-		80-120	-		
Barium, Total	96		-		80-120	-		
Beryllium, Total	110		-		80-120	-		
Cadmium, Total	99		-		80-120	-		
Chromium, Total	96		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	102		-		80-120	-		
Iron, Total	96		-		80-120	-		
Lead, Total	100		-		80-120	-		
Manganese, Total	95		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Potassium, Total	94		-		80-120	-		
Selenium, Total	103		-		80-120	-		
Silver, Total	96		-		80-120	-		
Sodium, Total	109		-		80-120	-		
Thallium, Total	94		-		80-120	-		
Vanadium, Total	99		-		80-120	-		
Zinc, Total	103		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10,12 Batch: WG662000-2					
Boron, Total	119	-	80-120	-	
Calcium, Total	110	-	80-120	-	
Magnesium, Total	110	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-10,12 Batch: WG662000-2					
Hardness	110	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 01-10,12 Batch: WG662149-2					
Mercury, Total	94	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661998-4 QC Sample: L1325723-01 Client ID: MW 51												
Aluminum, Total	0.229	2	2.09	93		-	-		80-120	-		20
Antimony, Total	0.00721	0.5	0.4297	84		-	-		80-120	-		20
Arsenic, Total	0.00040J	0.12	0.1233	103		-	-		80-120	-		20
Barium, Total	0.03729	2	1.912	94		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.05356	107		-	-		80-120	-		20
Cadmium, Total	0.00016J	0.051	0.05040	99		-	-		80-120	-		20
Chromium, Total	0.00125	0.2	0.1913	95		-	-		80-120	-		20
Cobalt, Total	0.00017J	0.5	0.4903	98		-	-		80-120	-		20
Copper, Total	0.00038J	0.25	0.2498	100		-	-		80-120	-		20
Iron, Total	0.526	1	1.47	94		-	-		80-120	-		20
Lead, Total	0.00025J	0.51	0.5052	99		-	-		80-120	-		20
Manganese, Total	0.05159	0.5	0.5190	93		-	-		80-120	-		20
Nickel, Total	0.00078	0.5	0.4926	98		-	-		80-120	-		20
Potassium, Total	3.29	10	14.4	111		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.122	102		-	-		80-120	-		20
Silver, Total	ND	0.05	0.04760	95		-	-		80-120	-		20
Sodium, Total	18.4	10	26.5	81		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1126	94		-	-		80-120	-		20
Vanadium, Total	0.00059J	0.5	0.4930	99		-	-		80-120	-		20
Zinc, Total	0.00306J	0.5	0.5013	100		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG662000-4 QC Sample: L1325723-01 Client ID: MW 51										
Boron, Total	0.174	1	1.34	117		-	-	75-125	-	20
Calcium, Total	81.	10	95	**140**	Q	-	-	75-125	-	20
Magnesium, Total	22.	10	34	120		-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG662000-4 QC Sample: L1325723-01 Client ID: MW 51										
Hardness	290	66.2	380	**136**	Q	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG662149-4 QC Sample: L1326286-01 Client ID: MS Sample										
Mercury, Total	ND	0.005	0.00525	105		-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661998-3 QC Sample: L1325723-01 Client ID: MW 51						
Aluminum, Total	0.229	0.222	mg/l	3		20
Antimony, Total	0.00721	0.00404	mg/l	**56**	Q	20
Arsenic, Total	0.00040J	0.00034J	mg/l	NC		20
Barium, Total	0.03729	0.03576	mg/l	4		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	0.00016J	0.00015J	mg/l	NC		20
Chromium, Total	0.00125	0.00111	mg/l	12		20
Cobalt, Total	0.00017J	0.00019J	mg/l	NC		20
Copper, Total	0.00038J	0.00033J	mg/l	NC		20
Iron, Total	0.526	0.503	mg/l	4		20
Lead, Total	0.00025J	0.00023J	mg/l	NC		20
Manganese, Total	0.05159	0.04950	mg/l	4		20
Nickel, Total	0.00078	0.00069	mg/l	12		20
Potassium, Total	3.29	3.05	mg/l	8		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	18.4	17.4	mg/l	6		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	0.00059J	0.00050J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661998-3 QC Sample: L1325723-01 Client ID: MW 51					
Zinc, Total	0.00306J	0.00311J	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG662000-3 QC Sample: L1325723-01 Client ID: MW 51					
Boron, Total	0.174	0.168	mg/l	4	20
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG662000-3 QC Sample: L1325723-01 Client ID: MW 51					
Calcium, Total	81.	78	mg/l	4	20
Magnesium, Total	22.	22	mg/l	0	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG662000-3 QC Sample: L1325723-01 Client ID: MW 51					
Hardness	290	280	mg/l	4	20
Total Metals - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG662149-3 QC Sample: L1326286-01 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-01
Client ID: MW 51
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 08:25
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	5.0		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	256.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	340		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	12/20/13 13:10	12/23/13 12:07	1,9010C/9012B	ML
Nitrogen, Ammonia	0.325		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 18:55	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/19/13 03:04	44,353.2	DB
Nitrogen, Total Kjeldahl	0.37		mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:04	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:12	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.42		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.012	1	12/24/13 09:30	12/24/13 14:47	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:24	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 20:25	44,300.0	AU
Chloride	2.75		mg/l	0.500	0.168	1	-	12/19/13 20:25	44,300.0	AU
Sulfate	60.8		mg/l	1.00	0.229	1	-	12/19/13 20:25	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-02
Client ID: MW 58
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 09:15
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	8.0		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	242.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	320		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.005		mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:49	1,9010C/9012B	DE
Nitrogen, Ammonia	0.171		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:01	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/19/13 03:28	44,353.2	DB
Nitrogen, Total Kjeldahl	0.22	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:05	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:12	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.45		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/24/13 09:30	12/24/13 14:48	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:25	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 20:37	44,300.0	AU
Chloride	2.77		mg/l	0.500	0.168	1	-	12/19/13 20:37	44,300.0	AU
Sulfate	45.1		mg/l	1.00	0.229	1	-	12/19/13 20:37	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-03
Client ID: MW 57
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 10:00
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	6.0		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	212.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	280		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/20/13 13:10	12/23/13 12:08	1,9010C/9012B	ML
Nitrogen, Ammonia	0.196		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:02	44,350.1	AT
Nitrogen, Nitrate	0.019	J	mg/l	0.10	0.015	1	-	12/19/13 03:29	44,353.2	DB
Nitrogen, Total Kjeldahl	0.25	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:06	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:12	44,410.4	TL
BOD, 5 day	2.5		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.51		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/24/13 09:30	12/24/13 14:48	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:26	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 20:49	44,300.0	AU
Chloride	4.55		mg/l	0.500	0.168	1	-	12/19/13 20:49	44,300.0	AU
Sulfate	40.4		mg/l	1.00	0.229	1	-	12/19/13 20:49	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-04
Client ID: MW 55
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 11:55
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	12		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	147.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	200		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:36	1,9010C/9012B	DE
Nitrogen, Ammonia	0.123		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:02	44,350.1	AT
Nitrogen, Nitrate	0.044	J	mg/l	0.10	0.015	1	-	12/19/13 03:30	44,353.2	DB
Nitrogen, Total Kjeldahl	0.26	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:07	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:12	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.55		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/24/13 09:30	12/24/13 14:49	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:26	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 21:01	44,300.0	AU
Chloride	5.69		mg/l	0.500	0.168	1	-	12/19/13 21:01	44,300.0	AU
Sulfate	33.4		mg/l	1.00	0.229	1	-	12/19/13 21:01	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-05
Client ID: MW 56A
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 12:55
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	5.0		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	193.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	220		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:38	1,9010C/9012B	DE
Nitrogen, Ammonia	0.308		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:03	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/19/13 03:30	44,353.2	DB
Nitrogen, Total Kjeldahl	0.40		mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:10	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:12	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.42		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 13:00	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:26	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 20:13	44,300.0	AU
Chloride	0.901		mg/l	0.500	0.168	1	-	12/19/13 20:13	44,300.0	AU
Sulfate	21.2		mg/l	1.00	0.229	1	-	12/19/13 20:13	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-06
Client ID: MW 54A
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 13:20
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	9.0		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	179.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	200		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:39	1,9010C/9012B	DE
Nitrogen, Ammonia	0.246		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:04	44,350.1	AT
Nitrogen, Nitrate	0.022	J	mg/l	0.10	0.015	1	-	12/19/13 03:31	44,353.2	DB
Nitrogen, Total Kjeldahl	0.32		mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:11	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:12	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.35		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 13:00	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:26	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 21:13	44,300.0	AU
Chloride	1.18		mg/l	0.500	0.168	1	-	12/19/13 21:13	44,300.0	AU
Sulfate	23.9		mg/l	1.00	0.229	1	-	12/19/13 21:13	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-07
Client ID: MW 53
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 13:45
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	158.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	210		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:41	1,9010C/9012B	DE
Nitrogen, Ammonia	0.090		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:05	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/19/13 03:32	44,353.2	DB
Nitrogen, Total Kjeldahl	0.14	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:12	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	6.8	J	mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:13	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.46		mg/l	1.00	0.236	2	-	12/27/13 06:56	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 13:01	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:27	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 22:01	44,300.0	AU
Chloride	2.88		mg/l	0.500	0.168	1	-	12/19/13 22:01	44,300.0	AU
Sulfate	29.9		mg/l	1.00	0.229	1	-	12/19/13 22:01	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-08
Client ID: MW 52
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 14:05
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	14		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	172.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	220		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:42	1,9010C/9012B	DE
Nitrogen, Ammonia	0.117		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:06	44,350.1	AT
Nitrogen, Nitrate	0.039	J	mg/l	0.10	0.015	1	-	12/19/13 03:32	44,353.2	DB
Nitrogen, Total Kjeldahl	0.19	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:13	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:13	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	0.600	J	mg/l	1.00	0.236	2	-	12/30/13 07:29	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 13:01	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:28	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 22:13	44,300.0	AU
Chloride	1.82		mg/l	0.500	0.168	1	-	12/19/13 22:13	44,300.0	AU
Sulfate	30.6		mg/l	1.00	0.229	1	-	12/19/13 22:13	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-09
Client ID: MW-42
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 16:20
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	14		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	359.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	480		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:43	1,9010C/9012B	DE
Nitrogen, Ammonia	0.051	J	mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:07	44,350.1	AT
Nitrogen, Nitrate	0.12		mg/l	0.10	0.015	1	-	12/19/13 03:33	44,353.2	DB
Nitrogen, Total Kjeldahl	0.27	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:14	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	4.4	J	mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:13	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.33		mg/l	1.00	0.236	2	-	12/30/13 07:29	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 13:02	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:28	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 22:25	44,300.0	AU
Chloride	12.7		mg/l	0.500	0.168	1	-	12/19/13 22:25	44,300.0	AU
Sulfate	73.1		mg/l	1.00	0.229	1	-	12/19/13 22:25	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-10
Client ID: MW-41
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 15:50
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	10		A.P.C.U.	5.0	5.0	1	-	12/19/13 02:31	30,2120B	EL
Alkalinity, Total	426.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	510		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:43	1,9010C/9012B	DE
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:08	44,350.1	AT
Nitrogen, Nitrate	0.14		mg/l	0.10	0.015	1	-	12/19/13 03:34	44,353.2	DB
Nitrogen, Total Kjeldahl	0.13	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:14	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:13	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.42		mg/l	1.00	0.236	2	-	12/30/13 07:29	30,5310C	DW
Phenolics, Total	0.040		mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 15:56	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:29	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.029	J	mg/l	0.050	0.010	1	-	12/19/13 22:37	44,300.0	AU
Chloride	14.9		mg/l	0.500	0.168	1	-	12/19/13 22:37	44,300.0	AU
Sulfate	85.0		mg/l	1.00	0.229	1	-	12/19/13 22:37	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

SAMPLE RESULTS

Lab ID: L1325723-12
Client ID: MW-40
Sample Location: READING, NY
Matrix: Water

Date Collected: 12/18/13 15:15
Date Received: 12/18/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	10		A.P.C.U.	5.0	5.0	1	-	12/19/13 03:17	30,2120B	EL
Alkalinity, Total	257.		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	12/19/13 02:18	30,2520B	EL
Solids, Total Dissolved	740		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	12/20/13 13:10	12/23/13 12:09	1,9010C/9012B	ML
Nitrogen, Ammonia	0.043	J	mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 19:13	44,350.1	AT
Nitrogen, Nitrate	0.12		mg/l	0.10	0.015	1	-	12/19/13 03:37	44,353.2	DB
Nitrogen, Total Kjeldahl	0.21	J	mg/l	0.30	0.093	1	12/27/13 12:15	12/27/13 20:17	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.2	J	mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:13	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
Total Organic Carbon	1.23		mg/l	1.00	0.236	2	-	12/30/13 07:29	30,5310C	DW
Phenolics, Total	0.020	J	mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 15:57	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:45	12/19/13 01:59	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.147		mg/l	0.050	0.010	1	-	12/19/13 22:49	44,300.0	AU
Chloride	307.		mg/l	5.00	1.68	10	-	12/19/13 23:01	44,300.0	AU
Sulfate	53.2		mg/l	1.00	0.229	1	-	12/19/13 22:49	44,300.0	AU

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10,12 Batch: WG660129-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.015	1	-	12/19/13 02:21	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG660148-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:10	12/19/13 01:24	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 12 Batch: WG660150-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	12/19/13 01:45	12/19/13 01:59	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 02,04-09 Batch: WG660327-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:29	1,9010C/9012B	DE
General Chemistry - Westborough Lab for sample(s): 10 Batch: WG660329-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/19/13 21:30	12/23/13 13:30	1,9010C/9012B	DE
General Chemistry - Westborough Lab for sample(s): 01-10,12 Batch: WG660406-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	12/19/13 19:25	12/24/13 13:00	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 01,03,12 Batch: WG660624-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	12/20/13 13:10	12/23/13 11:56	1,9010C/9012B	ML
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-10,12 Batch: WG660736-1										
Bromide	ND		mg/l	0.050	0.010	1	-	12/19/13 17:24	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-10,12 Batch: WG660736-1										
Chloride	ND		mg/l	0.500	0.168	1	-	12/19/13 17:24	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	12/19/13 17:24	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG660942-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 10,12 Batch: WG660943-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	12/23/13 12:50	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG661257-1										
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/24/13 09:30	12/24/13 11:34	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-10,12 Batch: WG661412-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	12/24/13 08:16	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 05-10,12 Batch: WG661562-1										
Phenolics, Total	ND		mg/l	0.030	0.012	1	12/26/13 10:45	12/26/13 12:58	4,420.1	MP

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10,12 Batch: WG661595-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	12/26/13 13:40	12/26/13 18:52	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-07 Batch: WG661801-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	12/27/13 06:56	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 01-10,12 Batch: WG661849-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	12/27/13 11:20	12/27/13 14:09	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-10,12 Batch: WG661852-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.031	1	12/27/13 12:15	12/27/13 19:59	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 08-10,12 Batch: WG662138-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	12/30/13 07:29	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 Batch: WG660129-2								
Nitrogen, Nitrate	96		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG660148-2								
Chromium, Hexavalent	102		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG660150-2								
Chromium, Hexavalent	94		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 Batch: WG660152-1								
SALINITY	99		-			-		
General Chemistry - Westborough Lab Associated sample(s): 02,04-09 Batch: WG660327-4 WG660327-5								
Cyanide, Total	96		102		80-120	6		20
General Chemistry - Westborough Lab Associated sample(s): 10 Batch: WG660329-4 WG660329-5								
Cyanide, Total	96		101		80-120	5		20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 Batch: WG660406-2								
BOD, 5 day	105		-		85-115	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,12 Batch: WG660624-4 WG660624-5					
Cyanide, Total	102	105	80-120	3	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10,12 Batch: WG660736-2					
Bromide	98	-	90-110	-	
Chloride	102	-	90-110	-	
Sulfate	102	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG660942-2					
Solids, Total Dissolved	95	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 10,12 Batch: WG660943-2					
Solids, Total Dissolved	95	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-04 Batch: WG661257-2					
Phenolics, Total	105	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 Batch: WG661412-2					
Alkalinity, Total	102	-	90-110	-	10

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-10,12 Batch: WG661562-2					
Phenolics, Total	106	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 Batch: WG661595-2					
Nitrogen, Ammonia	96	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 Batch: WG661801-2					
Total Organic Carbon	96	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 Batch: WG661849-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 Batch: WG661852-2					
Nitrogen, Total Kjeldahl	100	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 08-10,12 Batch: WG662138-2					
Total Organic Carbon	102	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG660129-4 QC Sample: L1325723-01 Client ID: MW 51												
Nitrogen, Nitrate	ND	4	3.9	98		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG660148-4 QC Sample: L1325723-10 Client ID: MW-41												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG660150-4 QC Sample: L1325723-12 Client ID: MW-40												
Chromium, Hexavalent	ND	0.1	0.092	92		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02,04-09 QC Batch ID: WG660327-3 WG660327-2 QC Sample: L1325723-06 Client ID: MW 54A												
Cyanide, Total	0.001J	0.2	0.167	84		0.193	96		80-120	14		20
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG660329-3 WG660329-2 QC Sample: L1325723-10 Client ID: MW-41												
Cyanide, Total	0.002J	0.2	0.190	95		0.194	97		80-120	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG660406-4 QC Sample: L1325723-01 Client ID: MW 51												
BOD, 5 day	ND	100	120	119		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01,03,12 QC Batch ID: WG660624-3 WG660624-2 QC Sample: L1325723-12 Client ID: MW-40												
Cyanide, Total	0.002J	0.2	0.219	110		0.218	109		80-120	0		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG660736-3 QC Sample: L1325723-05 Client ID: MW 56A												
Bromide	ND	0.4	0.372	93		-	-		77-119	-		20
Chloride	0.901	4	5.09	105		-	-		40-151	-		18
Sulfate	21.2	8	28.9	96		-	-		60-140	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG661257-4 QC Sample: L1325723-01 Client ID: MW 51									
Phenolics, Total	0.030	0.8	0.88	106	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661412-3 QC Sample: L1325723-12 Client ID: MW-40									
Alkalinity, Total	257.	200	461	102	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 05-10,12 QC Batch ID: WG661562-4 QC Sample: L1326102-01 Client ID: MS Sample									
Phenolics, Total	0.020J	0.8	0.79	99	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661595-3 QC Sample: L1325723-01 Client ID: MW 51									
Nitrogen, Ammonia	0.325	4	3.87	89	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG661801-4 QC Sample: L1325824-02 Client ID: MS Sample									
Total Organic Carbon	11.9	40	56.7	112	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661849-3 QC Sample: L1325723-10 Client ID: MW-41									
Chemical Oxygen Demand	ND	47.6	46	97	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661852-3 QC Sample: L1325723-10 Client ID: MW-41									
Nitrogen, Total Kjeldahl	0.13J	8	7.6	95	-	-	77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 08-10,12 QC Batch ID: WG662138-4 QC Sample: L1325945-01 Client ID: MS Sample									
Total Organic Carbon	10.7	40	55.0	111	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG660129-3 QC Sample: L1325723-01 Client ID: MW 51						
Nitrogen, Nitrate	ND	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG660148-3 QC Sample: L1325723-01 Client ID: MW 51						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG660150-3 QC Sample: L1325723-12 Client ID: MW-40						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG660152-2 QC Sample: L1325723-03 Client ID: MW 57						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG660153-1 QC Sample: L1325723-03 Client ID: MW 57						
Color, Apparent	6.0	6.0	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG660154-1 QC Sample: L1325701-01 Client ID: DUP Sample						
Color, Apparent	400	400	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG660406-3 QC Sample: L1324338-59 Client ID: DUP Sample						
BOD, 5 day	170	160	mg/l	6		35
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG660736-4 QC Sample: L1325723-05 Client ID: MW 56A						
Bromide	ND	0.015J	mg/l	NC		20
Chloride	0.901	0.861	mg/l	5		18
Sulfate	21.2	21.2	mg/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG660942-3 QC Sample: L1325772-01 Client ID: DUP Sample					
Solids, Total Dissolved	480	500	mg/l	4	17
General Chemistry - Westborough Lab Associated sample(s): 10,12 QC Batch ID: WG660943-3 QC Sample: L1325851-09 Client ID: DUP Sample					
Solids, Total Dissolved	1400	1400	mg/l	0	17
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG661257-3 QC Sample: L1325397-06 Client ID: DUP Sample					
Phenolics, Total	0.24	0.24	mg/l	0	12
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661412-4 QC Sample: L1325723-12 Client ID: MW-40					
Alkalinity, Total	257.	251	mg CaCO3/L	2	10
General Chemistry - Westborough Lab Associated sample(s): 05-10,12 QC Batch ID: WG661562-3 QC Sample: L1325723-12 Client ID: MW-40					
Phenolics, Total	0.020J	ND	mg/l	NC	12
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661595-4 QC Sample: L1325723-01 Client ID: MW 51					
Nitrogen, Ammonia	0.325	0.296	mg/l	9	20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG661801-3 QC Sample: L1325824-02 Client ID: DUP Sample					
Total Organic Carbon	11.9	12.1	mg/l	2	20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661849-4 QC Sample: L1325723-10 Client ID: MW-41					
Chemical Oxygen Demand	ND	4.4J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12 QC Batch ID: WG661852-4 QC Sample: L1325723-10 Client ID: MW-41					
Nitrogen, Total Kjeldahl	0.13J	0.13J	mg/l	NC	24

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 08-10,12 QC Batch ID: WG662138-3 QC Sample: L1325945-01 Client ID: DUP Sample					
Total Organic Carbon	10.7	11.2	mg/l	5	20

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
D	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-01A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-01B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-01C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-01D	Vial H2SO4 preserved	B	N/A	2.3	Y	Absent	TOC-5310(28)
L1325723-01E	Vial H2SO4 preserved	B	N/A	2.3	Y	Absent	TOC-5310(28)
L1325723-01F	Amber 500ml H2SO4 preserved	B	<2	2.3	Y	Absent	TPHENOL-420(28)
L1325723-01G	Plastic 1000ml unpreserved	B	7	2.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-01H	Plastic 500ml unpreserved	B	7	2.3	Y	Absent	BOD-5210(2)
L1325723-01I	Plastic 500ml H2SO4 preserved	B	<2	2.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-01J	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-01K	Plastic 250ml unpreserved	B	7	2.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-01L	Plastic 250ml NaOH preserved	B	>12	2.3	Y	Absent	TCN-9010(14)
L1325723-01M	Plastic 250ml unpreserved	B	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1325723-01N	Amber 250ml unpreserved	B	7	2.3	Y	Absent	SALINITY(28)
L1325723-02A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-02B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-02C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-02D	Vial H2SO4 preserved	B	N/A	2.3	Y	Absent	TOC-5310(28)
L1325723-02E	Vial H2SO4 preserved	B	N/A	2.3	Y	Absent	TOC-5310(28)
L1325723-02F	Amber 500ml H2SO4 preserved	B	<2	2.3	Y	Absent	TPHENOL-420(28)
L1325723-02G	Plastic 1000ml unpreserved	B	7	2.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-02H	Plastic 500ml unpreserved	B	7	2.3	Y	Absent	BOD-5210(2)
L1325723-02I	Plastic 500ml H2SO4 preserved	B	<2	2.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-02J	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-02K	Plastic 250ml unpreserved	B	7	2.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-02L	Plastic 250ml NaOH preserved	B	>12	2.3	Y	Absent	TCN-9010(14)
L1325723-02M	Plastic 250ml unpreserved	B	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1325723-02N	Amber 250ml unpreserved	B	7	2.3	Y	Absent	SALINITY(28)
L1325723-03A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-03B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-03C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-03D	Vial H2SO4 preserved	B	N/A	2.3	Y	Absent	TOC-5310(28)
L1325723-03E	Vial H2SO4 preserved	B	N/A	2.3	Y	Absent	TOC-5310(28)
L1325723-03F	Amber 500ml H2SO4 preserved	B	<2	2.3	Y	Absent	TPHENOL-420(28)
L1325723-03G	Plastic 1000ml unpreserved	B	7	2.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-03H	Plastic 500ml unpreserved	B	7	2.3	Y	Absent	BOD-5210(2)
L1325723-03I	Plastic 500ml H2SO4 preserved	B	<2	2.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-03J	Plastic 500ml HNO3 preserved	B	<2	2.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-03K	Plastic 250ml unpreserved	B	7	2.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-03L	Plastic 250ml NaOH preserved	B	>12	2.3	Y	Absent	TCN-9010(14)
L1325723-03M	Plastic 250ml unpreserved	B	N/A	2.3	Y	Absent	ALK-T-2320(14)
L1325723-03N	Amber 250ml unpreserved	B	7	2.3	Y	Absent	SALINITY(28)
L1325723-04A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-04B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-04C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-04D	Vial H2SO4 preserved	D	N/A	3.0	Y	Absent	TOC-5310(28)
L1325723-04E	Vial H2SO4 preserved	D	N/A	3.0	Y	Absent	TOC-5310(28)
L1325723-04F	Amber 500ml H2SO4 preserved	D	<2	3.0	Y	Absent	TPHENOL-420(28)
L1325723-04G	Plastic 1000ml unpreserved	D	7	3.0	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-04H	Plastic 500ml unpreserved	D	7	3.0	Y	Absent	BOD-5210(2)
L1325723-04I	Plastic 500ml H2SO4 preserved	D	<2	3.0	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-04J	Plastic 500ml HNO3 preserved	D	<2	3.0	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-04K	Plastic 250ml unpreserved	D	7	3.0	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-04L	Plastic 250ml NaOH preserved	D	>12	3.0	Y	Absent	TCN-9010(14)
L1325723-04M	Plastic 250ml unpreserved	D	N/A	3.0	Y	Absent	ALK-T-2320(14)
L1325723-04N	Amber 250ml unpreserved	D	7	3.0	Y	Absent	SALINITY(28)
L1325723-05A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-05B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-05C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-05D	Vial H2SO4 preserved	D	N/A	3.0	Y	Absent	TOC-5310(28)
L1325723-05E	Vial H2SO4 preserved	D	N/A	3.0	Y	Absent	TOC-5310(28)
L1325723-05F	Amber 500ml H2SO4 preserved	D	<2	3.0	Y	Absent	TPHENOL-420(28)
L1325723-05G	Plastic 1000ml unpreserved	D	7	3.0	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-05H	Plastic 500ml unpreserved	D	7	3.0	Y	Absent	BOD-5210(2)
L1325723-05I	Plastic 500ml H2SO4 preserved	D	<2	3.0	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-05J	Plastic 500ml HNO3 preserved	D	<2	3.0	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-05K	Plastic 250ml unpreserved	D	7	3.0	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-05L	Plastic 250ml NaOH preserved	D	>12	3.0	Y	Absent	TCN-9010(14)
L1325723-05M	Plastic 250ml unpreserved	D	N/A	3.0	Y	Absent	ALK-T-2320(14)
L1325723-05N	Amber 250ml unpreserved	D	7	3.0	Y	Absent	SALINITY(28)
L1325723-06A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-06B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-06C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-06D	Vial H2SO4 preserved	A	N/A	4.8	Y	Absent	TOC-5310(28)
L1325723-06E	Vial H2SO4 preserved	A	N/A	4.8	Y	Absent	TOC-5310(28)
L1325723-06F	Amber 500ml H2SO4 preserved	A	<2	4.8	Y	Absent	TPHENOL-420(28)
L1325723-06G	Plastic 1000ml unpreserved	A	7	4.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-06H	Plastic 500ml unpreserved	A	7	4.8	Y	Absent	BOD-5210(2)
L1325723-06I	Plastic 500ml H2SO4 preserved	A	<2	4.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-06J	Plastic 500ml HNO3 preserved	A	<2	4.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-06K	Plastic 250ml unpreserved	A	7	4.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-06L	Plastic 250ml NaOH preserved	A	>12	4.8	Y	Absent	TCN-9010(14)
L1325723-06M	Plastic 250ml unpreserved	A	N/A	4.8	Y	Absent	ALK-T-2320(14)
L1325723-06N	Amber 250ml unpreserved	A	7	4.8	Y	Absent	SALINITY(28)
L1325723-07A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-07B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-07C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-07D	Vial H2SO4 preserved	A	N/A	4.8	Y	Absent	TOC-5310(28)
L1325723-07E	Vial H2SO4 preserved	A	N/A	4.8	Y	Absent	TOC-5310(28)
L1325723-07F	Amber 500ml H2SO4 preserved	A	<2	4.8	Y	Absent	TPHENOL-420(28)
L1325723-07G	Plastic 1000ml unpreserved	A	7	4.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-07H	Plastic 500ml unpreserved	A	7	4.8	Y	Absent	BOD-5210(2)
L1325723-07I	Plastic 500ml H2SO4 preserved	A	<2	4.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-07J	Plastic 500ml HNO3 preserved	A	<2	4.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-07K	Plastic 250ml unpreserved	A	7	4.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-07L	Plastic 250ml NaOH preserved	A	>12	4.8	Y	Absent	TCN-9010(14)
L1325723-07M	Plastic 250ml unpreserved	A	N/A	4.8	Y	Absent	ALK-T-2320(14)
L1325723-07N	Amber 250ml unpreserved	A	7	4.8	Y	Absent	SALINITY(28)
L1325723-08A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-08B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-08C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-08D	Vial H2SO4 preserved	A	N/A	4.8	Y	Absent	TOC-5310(28)
L1325723-08E	Vial H2SO4 preserved	A	N/A	4.8	Y	Absent	TOC-5310(28)
L1325723-08F	Amber 500ml H2SO4 preserved	A	<2	4.8	Y	Absent	TPHENOL-420(28)
L1325723-08G	Plastic 1000ml unpreserved	A	7	4.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-08H	Plastic 500ml unpreserved	A	7	4.8	Y	Absent	BOD-5210(2)
L1325723-08I	Plastic 500ml H2SO4 preserved	A	<2	4.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-08J	Plastic 500ml HNO3 preserved	A	<2	4.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-08K	Plastic 250ml unpreserved	A	7	4.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-08L	Plastic 250ml NaOH preserved	A	>12	4.8	Y	Absent	TCN-9010(14)
L1325723-08M	Plastic 250ml unpreserved	A	N/A	4.8	Y	Absent	ALK-T-2320(14)
L1325723-08N	Amber 250ml unpreserved	A	7	4.8	Y	Absent	SALINITY(28)
L1325723-09A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-09B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-09C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-09D	Vial H2SO4 preserved	C	N/A	2.2	Y	Absent	TOC-5310(28)
L1325723-09E	Vial H2SO4 preserved	C	N/A	2.2	Y	Absent	TOC-5310(28)
L1325723-09F	Amber 500ml H2SO4 preserved	C	<2	2.2	Y	Absent	TPHENOL-420(28)
L1325723-09G	Plastic 1000ml unpreserved	C	7	2.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-09H	Plastic 500ml unpreserved	C	7	2.2	Y	Absent	BOD-5210(2)
L1325723-09I	Plastic 500ml H2SO4 preserved	C	<2	2.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-09J	Plastic 500ml HNO3 preserved	C	<2	2.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-09K	Plastic 250ml unpreserved	C	7	2.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-09L	Plastic 250ml NaOH preserved	C	>12	2.2	Y	Absent	TCN-9010(14)
L1325723-09M	Plastic 250ml unpreserved	C	N/A	2.2	Y	Absent	ALK-T-2320(14)
L1325723-09N	Amber 250ml unpreserved	C	7	2.2	Y	Absent	SALINITY(28)
L1325723-10A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-10B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-10C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-10D	Vial H2SO4 preserved	C	N/A	2.2	Y	Absent	TOC-5310(28)
L1325723-10E	Vial H2SO4 preserved	C	N/A	2.2	Y	Absent	TOC-5310(28)
L1325723-10F	Amber 500ml H2SO4 preserved	C	<2	2.2	Y	Absent	TPHENOL-420(28)
L1325723-10G	Plastic 1000ml unpreserved	C	7	2.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-10H	Plastic 500ml unpreserved	C	7	2.2	Y	Absent	BOD-5210(2)
L1325723-10I	Plastic 500ml H2SO4 preserved	C	<2	2.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-10J	Plastic 500ml HNO3 preserved	C	<2	2.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-10K	Plastic 250ml unpreserved	C	7	2.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-10L	Plastic 250ml NaOH preserved	C	>12	2.2	Y	Absent	TCN-9010(14)
L1325723-10M	Plastic 250ml unpreserved	C	N/A	2.2	Y	Absent	ALK-T-2320(14)
L1325723-10N	Amber 250ml unpreserved	C	7	2.2	Y	Absent	SALINITY(28)
L1325723-11A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1325723
Report Date: 12/31/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1325723-12A	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-12B	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-12C	Vial HCl preserved	A	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1325723-12D	Vial H2SO4 preserved	C	N/A	2.2	Y	Absent	TOC-5310(28)
L1325723-12E	Vial H2SO4 preserved	C	N/A	2.2	Y	Absent	TOC-5310(28)
L1325723-12F	Amber 500ml H2SO4 preserved	C	<2	2.2	Y	Absent	TPHENOL-420(28)
L1325723-12G	Plastic 1000ml unpreserved	C	7	2.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1325723-12H	Plastic 500ml unpreserved	C	7	2.2	Y	Absent	BOD-5210(2)
L1325723-12I	Plastic 500ml H2SO4 preserved	C	<2	2.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1325723-12J	Plastic 500ml HNO3 preserved	C	<2	2.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1325723-12K	Plastic 250ml unpreserved	C	7	2.2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1325723-12L	Plastic 250ml NaOH preserved	C	>12	2.2	Y	Absent	TCN-9010(14)
L1325723-12M	Plastic 250ml unpreserved	C	N/A	2.2	Y	Absent	ALK-T-2320(14)
L1325723-12N	Amber 250ml unpreserved	C	7	2.2	Y	Absent	SALINITY(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT **Lab Number:** L1325723

Project Number: 08.8696 **Report Date:** 12/31/13

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT **Lab Number:** L1325723
Project Number: 08.8696 **Report Date:** 12/31/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL

stborough, MA: 508-898-9220, 508-898-9193
Mansfield, MA: TEL: 508-822-9300, FAX: 508-822-3288

Date Rec'd in Lab: 12/18/13

ALPHA Job #: L1325723

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #: 08.8696

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

ent Information

ent: CT Male Associates
dress: 50 Centruy Hill Drive
ham, NY 12110

one: 518.786.7400
x: 518.786.7299
ail: k.moline@ctmale.com

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

These samples have been Previously analyzed by Alpha 12/30/13

Report Information Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☒ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

her Project Specific Requirements/Comments/Detection Limits:

CRR Part 360 - Baseline Parameters
tals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe
, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

PHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	TOTAL # BOTTLES
25723-01	MW 51	12/18/13	08:25	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
02	MW 58	12/18/13	09:15	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
03	MW 57	12/18/13	10:00	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
04	MW 55	12/18/13	11:55	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
05	MW 56A	12/18/13	12:55	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
06	MW 54A	12/18/13	13:20	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
07	MW 53	12/18/13	13:45	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
08	MW 52	12/18/13	14:05	GW	AB	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
12 ~~09~~	MW-40	12/18/13	1515	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
10	MW-41	12/18/13	1550	GW	JD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
	Container Type	P	P	P	A	P	V	P	P	V	P	A	-						
	Preservative	C	E	A	D	A	D	D	A	B	A	A	-						

ASE ANSWER QUESTIONS ABOVE!

YOUR PROJECT
A MCP or CT RCP?

(O: 01-01(I)
JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
	12/18/13 1640		12-18-13 1640
Robert Martin	12-18-13 2053	Jim Carr	12-18-13 2055
Jim Carr	12-18-13 2325	William Miller	12/18/13 2325

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL

stborough, MA: 508-898-9220, 508-898-9193
Mansfield, MA: TEL: 508-822-9300, FAX: 508-822-3288

Date Rec'd in Lab: 12/18/13

ALPHA Job #: L1325723

Project Information

Project Name: US Salt

Project Location: Reading, NY

Project #: 08.8696

Project Manager: Kirk Moline

ALPHA Quote #: 2012282

Client Information

ent: CT Male Associates

dress: 50 Centruy Hill Drive

ham, NY 12110

one: 518.786.7400

x: 518.786.7299

ail: k.moline@ctmale.com

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: Time:

These samples have been Previously analyzed by Alpha 12/30/13

Report Information — Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program	Criteria
NYCRR Part 360	

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes	☒ No	Are MCP Analytical Methods Required?
☐ Yes	☒ No	Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not Needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

her Project Specific Requirements/Comments/Detection Limits:

CRR Part 360 - Baseline Parameters
tals - Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe
, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn

PHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Phenol-EPA 420	Alkalinity (no headspace)	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC	Color, Hexavalent Chromium	Salinity		Sample Specific Comments	TOTAL # BOTTLES
25723-11	Transport blank	—	—	GW	—	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		2
912	MW-42	12/18/13	1620	GW	SD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW	SD	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14
				GW		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐		14

Container Type	P	P	P	A	P	V	P	P	V	P	A	-	
Preservative	C	E	A	D	A	D	D	A	B	A	A	-	

ASE ANSWER QUESTIONS ABOVE!

YOUR PROJECT
A MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	12/18/13 1640	[signature]	12/18/13 1640
[signature]	12-18-13 2053	[signature]	12-18-13 2053
[signature]	12-18-13 2325	[signature]	12/18/13 2325

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms.

ANALYTICAL REPORT

Lab Number:	L1302746
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08.8696
Report Date:	02/22/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1302746-01	TRANSPORT BLANK	READING, NY	02/15/13 00:00
L1302746-02	MW-23	READING, NY	02/15/13 07:45
L1302746-03	MW-32	READING, NY	02/15/13 08:45
L1302746-04	MW-33	READING, NY	02/15/13 09:35
L1302746-05	MW-24	READING, NY	02/15/13 10:30
L1302746-06	MW-25	READING, NY	02/15/13 11:05
L1302746-07	MW-31	READING, NY	02/15/13 11:55
L1302746-08	MW-30	READING, NY	02/15/13 12:30

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT **Lab Number:** L1302746
Project Number: 08.8696 **Report Date:** 02/22/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

The WG590653-3 Laboratory Duplicate RPD, performed on L1302746-08, is above the acceptance criteria for Antimony (38%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

The WG590653-4 MS recoveries for Calcium (10%), Magnesium (78%), and Sodium (67%), performed on L1302746-08, do not apply because the sample concentration is greater than four times the spike amount added.

The WG590653-4 MS recoveries, performed on L1302746-08, are below the acceptance criteria for Iron (78%) and Potassium (67%). A post digestion spike was performed with acceptable recoveries for Iron (113%) and Potassium (102%).

Phenolics, Total

The WG590829-3 Laboratory Duplicate RPD, performed on L1302746-05, is above the acceptance criteria (50%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cynthia McQueen

Title: Technical Director/Representative Date: 02/22/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-01	Date Collected:	02/15/13 00:00
Client ID:	TRANSPORT BLANK	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 20:20		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-01	Date Collected:	02/15/13 00:00
Client ID:	TRANSPORT BLANK	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-02	Date Collected:	02/15/13 07:45
Client ID:	MW-23	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 22:27		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-02	Date Collected:	02/15/13 07:45
Client ID:	MW-23	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-03	Date Collected:	02/15/13 08:45
Client ID:	MW-32	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 20:46		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-03	Date Collected:	02/15/13 08:45
Client ID:	MW-32	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-04
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/16/13 21:11
Analyst: TR

Date Collected: 02/15/13 09:35
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-04	Date Collected:	02/15/13 09:35
Client ID:	MW-33	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-05	Date Collected:	02/15/13 10:30
Client ID:	MW-24	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 22:53		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-05 Date Collected: 02/15/13 10:30

Client ID: MW-24 Date Received: 02/15/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.9	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-06	Date Collected:	02/15/13 11:05
Client ID:	MW-25	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 23:18		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-06	Date Collected:	02/15/13 11:05
Client ID:	MW-25	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-07
Client ID: MW-31
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/16/13 21:37
Analyst: TR

Date Collected: 02/15/13 11:55
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	0.55		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-07 Date Collected: 02/15/13 11:55

Client ID: MW-31 Date Received: 02/15/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-08	Date Collected:	02/15/13 12:30
Client ID:	MW-30	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 22:02		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	0.22	J	ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-08	Date Collected:	02/15/13 12:30
Client ID:	MW-30	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/16/13 14:36
Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG590595-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/16/13 14:36
Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG590595-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG590595-1 WG590595-2								
Methylene chloride	105		93		70-130	12		20
1,1-Dichloroethane	103		96		70-130	7		20
Chloroform	102		95		70-130	7		20
2-Chloroethylvinyl ether	95		96		70-130	1		20
Carbon tetrachloride	106		100		63-132	6		20
1,2-Dichloropropane	100		97		70-130	3		20
Dibromochloromethane	92		92		63-130	0		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Tetrachloroethene	104		99		70-130	5		20
Chlorobenzene	99		94		75-130	5		20
Trichlorofluoromethane	110		103		62-150	7		20
1,2-Dichloroethane	97		94		70-130	3		20
1,1,1-Trichloroethane	104		99		67-130	5		20
Bromodichloromethane	98		95		67-130	3		20
trans-1,3-Dichloropropene	92		90		70-130	2		20
cis-1,3-Dichloropropene	100		96		70-130	4		20
1,1-Dichloropropene	105		99		70-130	6		20
Bromoform	82		86		54-136	5		20
1,1,2,2-Tetrachloroethane	88		91		67-130	3		20
Benzene	105		97		70-130	8		20
Toluene	101		95		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG590595-1 WG590595-2								
Ethylbenzene	99		94		70-130	5		20
Chloromethane	120		97		64-130	**21**	Q	20
Bromomethane	107		98		39-139	9		20
Vinyl chloride	110		103		55-140	7		20
Chloroethane	116		105		55-138	10		20
1,1-Dichloroethene	106		100		61-145	6		20
trans-1,2-Dichloroethene	104		98		70-130	6		20
Trichloroethene	103		99		70-130	4		20
1,2-Dichlorobenzene	95		92		70-130	3		20
1,3-Dichlorobenzene	97		91		70-130	6		20
1,4-Dichlorobenzene	96		90		70-130	6		20
Methyl tert butyl ether	96		94		63-130	2		20
p/m-Xylene	101		96		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	103		96		70-130	7		20
Dibromomethane	99		98		70-130	1		20
1,2,3-Trichloropropane	79		82		64-130	4		20
Acrylonitrile	93		95		70-130	2		20
Isopropyl Ether	98		93		70-130	5		20
tert-Butyl Alcohol	92		103		70-130	11		20
Styrene	100		96		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG590595-1 WG590595-2								
Dichlorodifluoromethane	107		100		36-147	7		20
Acetone	131		94		58-148	**33**	Q	20
Carbon disulfide	109		94		51-130	15		20
2-Butanone	92		106		63-138	14		20
Vinyl acetate	94		90		70-130	4		20
4-Methyl-2-pentanone	89		94		59-130	5		20
2-Hexanone	81		89		57-130	9		20
Acrolein	117		89		40-160	**27**	Q	20
Bromochloromethane	103		100		70-130	3		20
2,2-Dichloropropane	106		98		63-133	8		20
1,2-Dibromoethane	93		93		70-130	0		20
1,3-Dichloropropane	94		94		70-130	0		20
1,1,1,2-Tetrachloroethane	97		94		64-130	3		20
Bromobenzene	95		91		70-130	4		20
n-Butylbenzene	99		93		53-136	6		20
sec-Butylbenzene	98		94		70-130	4		20
tert-Butylbenzene	98		93		70-130	5		20
o-Chlorotoluene	96		90		70-130	6		20
p-Chlorotoluene	95		90		70-130	5		20
1,2-Dibromo-3-chloropropane	88		86		41-144	2		20
Hexachlorobutadiene	100		93		63-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG590595-1 WG590595-2								
Isopropylbenzene	96		92		70-130	4		20
p-Isopropyltoluene	99		93		70-130	6		20
Naphthalene	89		91		70-130	2		20
n-Propylbenzene	97		92		69-130	5		20
1,2,3-Trichlorobenzene	92		92		70-130	0		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	97		92		64-130	5		20
1,2,4-Trimethylbenzene	97		92		70-130	5		20
Methyl Acetate	92		94		70-130	2		20
Ethyl Acetate	93		90		70-130	3		20
Cyclohexane	110		102		70-130	8		20
Ethyl-Tert-Butyl-Ether	96		94		70-130	2		20
Tertiary-Amyl Methyl Ether	95		95		66-130	0		20
1,4-Dioxane	95		120		56-162	**23**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		105		70-130	4		20
1,4-Diethylbenzene	99		93		70-130	6		20
4-Ethyltoluene	98		93		70-130	5		20
1,2,4,5-Tetramethylbenzene	97		90		70-130	7		20
Ethyl ether	98		95		59-134	3		20
trans-1,4-Dichloro-2-butene	81		80		70-130	1		20
Iodomethane	85		79		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG590595-1 WG590595-2								
Methyl cyclohexane	110		105		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	98		97		70-130

METALS

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-02	Date Collected:	02/15/13 07:45
Client ID:	MW-23	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.460		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Antimony, Total	0.0009		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0017		mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Barium, Total	0.1351		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Boron, Total	0.044		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 17:30	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Chromium, Total	0.0012		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0010		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Copper, Total	0.0009	J	mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Iron, Total	1.75		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Lead, Total	0.0014		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:29	EPA 7470A	1,7470A	JH
Nickel, Total	0.0022		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Potassium, Total	7.57		mg/l	0.100	0.027	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0008	J	mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Zinc, Total	0.0093	J	mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 14:44	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1100		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 17:30	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-02 D	Date Collected:	02/15/13 07:45
Client ID:	MW-23	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	368		mg/l	1.00	0.320	10	02/18/13 09:02	02/20/13 15:00	EPA 3005A	1,6020A	AK
Magnesium, Total	126		mg/l	1.00	0.230	10	02/18/13 09:02	02/20/13 15:00	EPA 3005A	1,6020A	AK
Manganese, Total	0.5166		mg/l	0.0100	0.0010	10	02/18/13 09:02	02/20/13 15:00	EPA 3005A	1,6020A	AK
Sodium, Total	253		mg/l	1.00	0.150	10	02/18/13 09:02	02/20/13 15:00	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-03	Date Collected:	02/15/13 08:45
Client ID:	MW-32	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.105		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Antimony, Total	0.0007		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0023		mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Barium, Total	0.0673		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Boron, Total	0.142		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 17:34	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Chromium, Total	0.0004	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0009		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Copper, Total	0.0002	J	mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Iron, Total	0.714		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:31	EPA 7470A	1,7470A	JH
Nickel, Total	0.0016		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Potassium, Total	6.62		mg/l	0.100	0.027	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Sodium, Total	43.0		mg/l	0.100	0.015	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0002	J	mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Zinc, Total	0.0102		mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 15:03	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	600		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 17:34	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-03 D	Date Collected:	02/15/13 08:45
Client ID:	MW-32	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	166		mg/l	0.500	0.160	5	02/18/13 09:02	02/20/13 15:09	EPA 3005A	1,6020A	AK
Magnesium, Total	67.2		mg/l	0.500	0.115	5	02/18/13 09:02	02/20/13 15:09	EPA 3005A	1,6020A	AK
Manganese, Total	0.4986		mg/l	0.0050	0.0005	5	02/18/13 09:02	02/20/13 15:09	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-04
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 09:35
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.220		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Antimony, Total	0.0003	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0035		mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Barium, Total	0.0663		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Boron, Total	0.153		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 17:38	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Chromium, Total	0.0008	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0004	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Copper, Total	0.0008	J	mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Iron, Total	1.17		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Lead, Total	0.0003	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Magnesium, Total	68.8		mg/l	0.100	0.023	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Manganese, Total	0.4390		mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:33	EPA 7470A	1,7470A	JH
Nickel, Total	0.0006		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Potassium, Total	3.46		mg/l	0.100	0.027	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Sodium, Total	46.4		mg/l	0.100	0.015	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0002	J	mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Zinc, Total	0.0107		mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 15:12	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	610		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 17:38	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-04 D	Date Collected:	02/15/13 09:35
Client ID:	MW-33	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	172		mg/l	0.500	0.160	5	02/18/13 09:02	02/20/13 15:19	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-05
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 10:30
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.055		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Antimony, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0007		mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Barium, Total	0.1469		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Boron, Total	0.145		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 17:54	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Chromium, Total	0.0003	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0003	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Copper, Total	ND		mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Iron, Total	0.310		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Magnesium, Total	39.4		mg/l	0.100	0.023	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Manganese, Total	0.1074		mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:35	EPA 7470A	1,7470A	JH
Nickel, Total	0.0016		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Potassium, Total	43.8		mg/l	0.100	0.027	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Sodium, Total	35.2		mg/l	0.100	0.015	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0001	J	mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Zinc, Total	0.0070	J	mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 15:16	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	280		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 17:54	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-05 D	Date Collected:	02/15/13 10:30
Client ID:	MW-24	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	57.0		mg/l	0.500	0.160	5	02/18/13 09:02	02/20/13 15:22	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-06
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 11:05
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.037		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Antimony, Total	0.0006		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0033		mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Barium, Total	0.0630		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Boron, Total	0.260		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 17:58	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Chromium, Total	0.0002	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Copper, Total	0.0002	J	mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Iron, Total	0.520		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Manganese, Total	0.2896		mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:40	EPA 7470A	1,7470A	JH
Nickel, Total	0.0003	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Potassium, Total	5.56		mg/l	0.100	0.027	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Sodium, Total	38.0		mg/l	0.100	0.015	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0003	J	mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Zinc, Total	0.0075	J	mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 15:25	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	470		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 17:58	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-06 D	Date Collected:	02/15/13 11:05
Client ID:	MW-25	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	135		mg/l	0.500	0.160	5	02/18/13 09:02	02/20/13 15:35	EPA 3005A	1,6020A	AK
Magnesium, Total	55.8		mg/l	0.500	0.115	5	02/18/13 09:02	02/20/13 15:35	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-07	Date Collected:	02/15/13 11:55
Client ID:	MW-31	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.107		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Antimony, Total	0.0006		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0042		mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Barium, Total	0.0489		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Boron, Total	0.355		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 18:02	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Chromium, Total	0.0004	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0005		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Copper, Total	0.00097	J	mg/l	0.00100	0.00010	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Iron, Total	0.333		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Magnesium, Total	43.6		mg/l	0.100	0.023	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Manganese, Total	0.1664		mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:42	EPA 7470A	1,7470A	JH
Nickel, Total	0.0008		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0002	J	mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Zinc, Total	0.0075	J	mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 15:38	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	270		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 18:02	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

SAMPLE RESULTS

Lab ID:	L1302746-07 D	Date Collected:	02/15/13 11:55
Client ID:	MW-31	Date Received:	02/15/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	68.8		mg/l	0.500	0.160	5	02/18/13 09:02	02/20/13 15:41	EPA 3005A	1,6020A	AK
Potassium, Total	51.0		mg/l	0.500	0.135	5	02/18/13 09:02	02/20/13 15:41	EPA 3005A	1,6020A	AK
Sodium, Total	49.5		mg/l	0.500	0.075	5	02/18/13 09:02	02/20/13 15:41	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-08
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 12:30
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.050		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Antimony, Total	0.0009		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 14:15	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0018		mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Barium, Total	0.2189		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Boron, Total	0.228		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 17:14	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Chromium, Total	0.0003	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Copper, Total	ND		mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Iron, Total	2.28		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Manganese, Total	0.3702		mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:44	EPA 7470A	1,7470A	JH
Nickel, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Potassium, Total	28.4		mg/l	0.100	0.027	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Zinc, Total	0.0024	J	mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 13:56	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	660		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 17:14	EPA 3005A	1,6010C	KL

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-08 D
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 12:30
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	192		mg/l	0.500	0.160	5	02/18/13 09:02	02/20/13 14:02	EPA 3005A	1,6020A	AK
Magnesium, Total	83.5		mg/l	0.500	0.115	5	02/18/13 09:02	02/20/13 14:02	EPA 3005A	1,6020A	AK
Sodium, Total	83.6		mg/l	0.500	0.075	5	02/18/13 09:02	02/20/13 14:02	EPA 3005A	1,6020A	AK

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-08 Batch: WG590653-1										
Aluminum, Total	ND		mg/l	0.010	0.002	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Antimony, Total	0.00049	J	mg/l	0.00050	0.00010	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Arsenic, Total	0.0004	J	mg/l	0.0005	0.0002	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Barium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.032	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Chromium, Total	0.0002	J	mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Copper, Total	0.0001	J	mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Iron, Total	ND		mg/l	0.050	0.013	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.023	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Manganese, Total	0.0009	J	mg/l	0.0010	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Nickel, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.027	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Sodium, Total	0.020	J	mg/l	0.100	0.015	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK
Zinc, Total	ND		mg/l	0.0100	0.0012	1	02/18/13 09:02	02/20/13 13:47	1,6020A	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-08 Batch: WG590676-1										
Boron, Total	ND		mg/l	0.030	0.008	1	02/18/13 09:02	02/18/13 13:10	1,6010C	KL

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 02-08 Batch: WG590676-1										
Hardness	ND		mg/l	0.66	NA	1	02/18/13 09:02	02/18/13 13:10	1,6010C	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-08 Batch: WG591161-1										
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/20/13 20:43	02/21/13 18:25	1,7470A	JH

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-08 Batch: WG590653-2								
Aluminum, Total	105		-		80-120	-		
Antimony, Total	87		-		80-120	-		
Arsenic, Total	105		-		80-120	-		
Barium, Total	99		-		80-120	-		
Beryllium, Total	105		-		80-120	-		
Cadmium, Total	116		-		80-120	-		
Calcium, Total	106		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	104		-		80-120	-		
Copper, Total	108		-		80-120	-		
Iron, Total	102		-		80-120	-		
Lead, Total	108		-		80-120	-		
Magnesium, Total	109		-		80-120	-		
Manganese, Total	101		-		80-120	-		
Nickel, Total	106		-		80-120	-		
Potassium, Total	105		-		80-120	-		
Selenium, Total	102		-		80-120	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	110		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	107		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-08 Batch: WG590653-2					
Zinc, Total	113	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02-08 Batch: WG590676-2					
Boron, Total	113	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-08 Batch: WG590676-2					
Hardness	91	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02-08 Batch: WG591161-2					
Mercury, Total	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590653-4 QC Sample: L1302746-08 Client ID: MW-30												
Aluminum, Total	0.050	2	2.08	102		-	-		80-120	-		20
Antimony, Total	0.0009	0.5	0.5009	100		-	-		80-120	-		20
Arsenic, Total	0.0018	0.12	0.1306	107		-	-		80-120	-		20
Barium, Total	0.2189	2	2.083	93		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.0521	104		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0550	108		-	-		80-120	-		20
Calcium, Total	192.	10	193	**10**	Q	-	-		80-120	-		20
Chromium, Total	0.0003J	0.2	0.1876	94		-	-		80-120	-		20
Cobalt, Total	0.0002J	0.5	0.4851	97		-	-		80-120	-		20
Copper, Total	ND	0.25	0.2522	101		-	-		80-120	-		20
Iron, Total	2.28	1	3.06	**78**	Q	-	-		80-120	-		20
Lead, Total	ND	0.51	0.5203	102		-	-		80-120	-		20
Magnesium, Total	83.5	10	91.3	**78**	Q	-	-		80-120	-		20
Manganese, Total	0.3702	0.5	0.8087	88		-	-		80-120	-		20
Nickel, Total	0.0002J	0.5	0.4735	95		-	-		80-120	-		20
Potassium, Total	28.4	10	35.1	**67**	Q	-	-		80-120	-		20
Selenium, Total	ND	0.12	0.104	87		-	-		80-120	-		20
Silver, Total	ND	0.05	0.0495	99		-	-		80-120	-		20
Sodium, Total	83.6	10	90.3	**67**	Q	-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1147	96		-	-		80-120	-		20
Vanadium, Total	ND	0.5	0.5148	103		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590653-4 QC Sample: L1302746-08 Client ID: MW-30									
Zinc, Total	0.0024J	0.5	0.5300	106	-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590676-4 QC Sample: L1302746-08 Client ID: MW-30									
Boron, Total	0.228	1	1.35	112	-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590676-4 QC Sample: L1302746-08 Client ID: MW-30									
Hardness	660	66.2	720	91	-	-	75-125	-	20
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG591161-4 QC Sample: L1302877-06 Client ID: MS Sample									
Mercury, Total	ND	0.001	0.0012	122	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590653-3 QC Sample: L1302746-08 Client ID: MW-30						
Aluminum, Total	0.050	0.055	mg/l	10		20
Antimony, Total	0.0009	0.0013	mg/l	**38**	Q	20
Arsenic, Total	0.0018	0.0018	mg/l	1		20
Barium, Total	0.2189	0.2193	mg/l	0		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.0003J	0.0003J	mg/l	NC		20
Cobalt, Total	0.0002J	0.0002J	mg/l	NC		20
Copper, Total	ND	ND	mg/l	NC		20
Iron, Total	2.28	2.28	mg/l	0		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.3702	0.3732	mg/l	1		20
Nickel, Total	0.0002J	0.0002J	mg/l	NC		20
Potassium, Total	28.4	31.2	mg/l	9		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	ND	0.0002J	mg/l	NC		20
Zinc, Total	0.0024J	0.0026J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590653-3 QC Sample: L1302746-08 Client ID: MW-30					
Calcium, Total	192.	189	mg/l	2	20
Magnesium, Total	83.5	81.8	mg/l	2	20
Sodium, Total	83.6	84.1	mg/l	1	20
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590676-3 QC Sample: L1302746-08 Client ID: MW-30					
Boron, Total	0.228	0.228	mg/l	0	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590676-3 QC Sample: L1302746-08 Client ID: MW-30					
Hardness	660	680	mg/l	3	20
Total Metals - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG591161-3 QC Sample: L1302877-06 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/l	NC	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-02
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 07:45
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	80		A.P.C.U.	25	25.	5	-	02/16/13 01:28	30,2120B	EL
Alkalinity, Total	332.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	2.0		SU	2.0	2.0	1	-	02/16/13 03:00	30,2520B	EL
Solids, Total Dissolved	2300		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:28	1,9010C/9012A	JO
Nitrogen, Ammonia	0.093		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:13	44,350.1	AT
Nitrogen, Nitrate	0.19		mg/l	0.10	0.02	1	-	02/16/13 01:34	44,353.2	DB
Nitrogen, Total Kjeldahl	0.28	J	mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:40	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	45		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:41	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
Total Organic Carbon	1.21		mg/l	1.00	0.052	2	-	02/21/13 11:17	30,5310C	DW
Phenolics, Total	0.03		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:31	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:35	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.254		mg/l	0.050	0.010	1	-	02/20/13 17:24	44,300.0	AU
Chloride	1120		mg/l	25.0	8.40	50	-	02/20/13 22:36	44,300.0	AU
Sulfate	99.9		mg/l	50.0	11.5	50	-	02/20/13 22:36	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-03
Client ID: MW-32
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 08:45
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	19		A.P.C.U.	5.0	5.0	1	-	02/16/13 01:28	30,2120B	EL
Alkalinity, Total	345.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/16/13 03:00	30,2520B	EL
Solids, Total Dissolved	790		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:29	1,9010C/9012A	JO
Nitrogen, Ammonia	0.172		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:14	44,350.1	AT
Nitrogen, Nitrate	0.099	J	mg/l	0.100	0.015	1	-	02/16/13 01:35	44,353.2	DB
Nitrogen, Total Kjeldahl	0.31		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:42	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:41	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
Total Organic Carbon	1.40		mg/l	1.00	0.052	2	-	02/21/13 11:17	30,5310C	DW
Phenolics, Total	0.02	J	mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 20:10	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:36	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.133		mg/l	0.050	0.010	1	-	02/20/13 17:36	44,300.0	AU
Chloride	230.		mg/l	5.00	1.68	10	-	02/20/13 23:00	44,300.0	AU
Sulfate	100.		mg/l	10.0	2.29	10	-	02/20/13 23:00	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-04
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 09:35
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	70		A.P.C.U.	25	25.	5	-	02/16/13 01:28	30,2120B	EL
Alkalinity, Total	342.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/16/13 03:00	30,2520B	EL
Solids, Total Dissolved	790		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:30	1,9010C/9012A	JO
Nitrogen, Ammonia	0.209		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:15	44,350.1	AT
Nitrogen, Nitrate	0.10		mg/l	0.10	0.02	1	-	02/16/13 01:36	44,353.2	DB
Nitrogen, Total Kjeldahl	0.33		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:43	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:41	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
Total Organic Carbon	1.14		mg/l	1.00	0.052	2	-	02/21/13 11:17	30,5310C	DW
Phenolics, Total	0.02	J	mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 20:11	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:37	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.145		mg/l	0.050	0.010	1	-	02/20/13 17:48	44,300.0	AU
Chloride	269.		mg/l	5.00	1.68	10	-	02/21/13 00:12	44,300.0	AU
Sulfate	82.8		mg/l	1.00	0.229	1	-	02/20/13 17:48	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-05
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 10:30
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	16		A.P.C.U.	5.0	5.0	1	-	02/16/13 01:28	30,2120B	EL
Alkalinity, Total	257.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/16/13 03:00	30,2520B	EL
Solids, Total Dissolved	460		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:30	1,9010C/9012A	JO
Nitrogen, Ammonia	1.20		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:16	44,350.1	AT
Nitrogen, Nitrate	0.09	J	mg/l	0.10	0.02	1	-	02/16/13 01:36	44,353.2	DB
Nitrogen, Total Kjeldahl	1.4		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:44	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	20		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:42	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
Total Organic Carbon	2.04		mg/l	1.00	0.052	2	-	02/21/13 11:17	30,5310C	DW
Phenolics, Total	0.03		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 20:11	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:37	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.067		mg/l	0.050	0.010	1	-	02/20/13 18:00	44,300.0	AU
Chloride	37.7		mg/l	0.500	0.168	1	-	02/20/13 18:00	44,300.0	AU
Sulfate	108.		mg/l	5.00	1.15	5	-	02/20/13 22:24	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-06
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 11:05
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	14		A.P.C.U.	5.0	5.0	1	-	02/16/13 01:28	30,2120B	EL
Alkalinity, Total	372.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/16/13 03:00	30,2520B	EL
Solids, Total Dissolved	650		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:31	1,9010C/9012A	JO
Nitrogen, Ammonia	0.553		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:16	44,350.1	AT
Nitrogen, Nitrate	0.08	J	mg/l	0.10	0.02	1	-	02/16/13 01:37	44,353.2	DB
Nitrogen, Total Kjeldahl	0.69		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:45	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:42	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
Total Organic Carbon	1.26		mg/l	1.00	0.052	2	-	02/21/13 11:17	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 20:11	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:38	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.133		mg/l	0.050	0.010	1	-	02/20/13 18:12	44,300.0	AU
Chloride	114.		mg/l	5.00	1.68	10	-	02/21/13 00:24	44,300.0	AU
Sulfate	101.		mg/l	10.0	2.29	10	-	02/21/13 00:24	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-07
Client ID: MW-31
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 11:55
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	36		A.P.C.U.	5.0	5.0	1	-	02/16/13 01:28	30,2120B	EL
Alkalinity, Total	269.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/16/13 03:00	30,2520B	EL
Solids, Total Dissolved	520		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:32	1,9010C/9012A	JO
Nitrogen, Ammonia	2.66		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:19	44,350.1	AT
Nitrogen, Nitrate	0.10		mg/l	0.10	0.02	1	-	02/16/13 01:38	44,353.2	DB
Nitrogen, Total Kjeldahl	2.9		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:48	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	8.3	J	mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:42	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
Total Organic Carbon	4.19		mg/l	1.00	0.052	2	-	02/21/13 11:17	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/21/13 09:00	02/21/13 13:41	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:38	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.124		mg/l	0.050	0.010	1	-	02/20/13 18:24	44,300.0	AU
Chloride	89.2		mg/l	5.00	1.68	10	-	02/20/13 23:12	44,300.0	AU
Sulfate	102.		mg/l	10.0	2.29	10	-	02/20/13 23:12	44,300.0	AU

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

SAMPLE RESULTS

Lab ID: L1302746-08
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/15/13 12:30
Date Received: 02/15/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	50		A.P.C.U.	10	10.	2	-	02/16/13 01:28	30,2120B	EL
Alkalinity, Total	277.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/16/13 03:00	30,2520B	EL
Solids, Total Dissolved	1100		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:33	1,9010C/9012A	JO
Nitrogen, Ammonia	1.32		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:20	44,350.1	AT
Nitrogen, Nitrate	0.12		mg/l	0.10	0.02	1	-	02/16/13 01:38	44,353.2	DB
Nitrogen, Total Kjeldahl	1.5		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:49	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	34		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:42	44,410.4	TL
BOD, 5 day	2.8		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
Total Organic Carbon	2.23		mg/l	1.00	0.052	2	-	02/21/13 11:17	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/21/13 09:00	02/21/13 13:42	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:39	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.242		mg/l	0.050	0.010	1	-	02/20/13 18:36	44,300.0	AU
Chloride	523.		mg/l	12.5	4.20	25	-	02/20/13 22:48	44,300.0	AU
Sulfate	31.4		mg/l	1.00	0.229	1	-	02/20/13 18:36	44,300.0	AU

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590514-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	02/15/13 20:58	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590535-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/16/13 02:10	02/16/13 02:34	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590537-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	02/16/13 03:15	02/20/13 22:35	30,5210B	DE
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590721-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:37	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590743-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590786-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	02/19/13 12:25	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590822-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:02	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 02-06 Batch: WG590829-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:28	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590858-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:20	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG590902-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:38	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG591195-1										
Total Organic Carbon	0.130	J	mg/l	0.500	0.026	1	-	02/21/13 11:17	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 07-08 Batch: WG591232-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/21/13 09:00	02/21/13 13:40	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-08 Batch: WG591369-1										
Bromide	ND		mg/l	0.050	0.010	1	-	02/20/13 17:00	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	02/20/13 17:00	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	02/20/13 17:00	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590514-2								
Nitrogen, Nitrate	92		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590535-2								
Chromium, Hexavalent	98		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590537-2								
BOD, 5 day	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590545-1								
SALINITY	94		-			-		
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590721-2								
Nitrogen, Total Kjeldahl	95		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590743-2								
Alkalinity, Total	105		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590786-2								
Solids, Total Dissolved	94		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590822-2					
Nitrogen, Ammonia	96	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-06 Batch: WG590829-2					
Phenolics, Total	104	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590858-2 WG590858-3					
Cyanide, Total	110	110	80-120	0	20
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG590902-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG591195-2					
Total Organic Carbon	98	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 07-08 Batch: WG591232-2					
Phenolics, Total	94	-	82-111	-	12

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-08 Batch: WG591369-2					
Bromide	103	-	90-110	-	
Chloride	102	-	90-110	-	
Sulfate	98	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590514-4 QC Sample: L1302683-01 Client ID: MS Sample												
Nitrogen, Nitrate	3.0	4	6.2	**81**	Q	-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590535-4 QC Sample: L1302746-08 Client ID: MW-30												
Chromium, Hexavalent	ND	0.1	0.092	92		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590537-4 QC Sample: L1302746-08 Client ID: MW-30												
BOD, 5 day	2.8	100	120	117		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590721-4 QC Sample: L1302746-02 Client ID: MW-23												
Nitrogen, Total Kjeldahl	0.28J	8	8.1	101		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590743-3 QC Sample: L1302746-07 Client ID: MW-31												
Alkalinity, Total	269.	100	369	100		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590822-4 QC Sample: L1302746-06 Client ID: MW-25												
Nitrogen, Ammonia	0.553	4	4.26	93		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG590829-4 QC Sample: L1302746-02 Client ID: MW-23												
Phenolics, Total	0.03	0.8	0.84	101		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590858-4 WG590858-5 QC Sample: L1302654-12 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.198	99		0.207	104		80-120	4		20
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590902-3 QC Sample: L1302701-01 Client ID: MS Sample												
Chemical Oxygen Demand	11.J	238	230	98		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG591195-4 QC Sample: L1302746-03 Client ID: MW-32									
Total Organic Carbon	1.40	8	8.63	90	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG591232-4 QC Sample: L1302746-07 Client ID: MW-31									
Phenolics, Total	ND	0.8	0.76	95	-	-	77-124	-	12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG591369-3 QC Sample: L1302746-05 Client ID: MW-24									
Bromide	0.067	0.4	0.408	85	-	-	77-119	-	20
Chloride	37.7	4	41.1	85	-	-	40-151	-	18
Sulfate	108.	40	151	106	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590514-3 QC Sample: L1302683-01 Client ID: DUP Sample						
Nitrogen, Nitrate	3.0	3.0	mg/l	0		6
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590534-1 QC Sample: L1302746-02 Client ID: MW-23						
Color, Apparent	80.	80	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590535-3 QC Sample: L1302746-02 Client ID: MW-23						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590537-3 QC Sample: L1302746-08 Client ID: MW-30						
BOD, 5 day	2.8	2.5	mg/l	11		35
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590545-2 QC Sample: L1302746-02 Client ID: MW-23						
SALINITY	2.0	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590721-3 QC Sample: L1302746-02 Client ID: MW-23						
Nitrogen, Total Kjeldahl	0.28J	0.27J	mg/l	NC		24
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590743-4 QC Sample: L1302746-07 Client ID: MW-31						
Alkalinity, Total	269.	268.	mg CaCO3/L	0		10
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590786-3 QC Sample: L1302746-02 Client ID: MW-23						
Solids, Total Dissolved	2300	2200	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590822-3 QC Sample: L1302746-06 Client ID: MW-25						
Nitrogen, Ammonia	0.553	0.529	mg/l	4		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG590829-3 QC Sample: L1302746-05 Client ID: MW-24						
Phenolics, Total	0.03	0.05	mg/l	**50**	Q	12
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG590902-4 QC Sample: L1302701-01 Client ID: DUP Sample						
Chemical Oxygen Demand	11.J	8.3J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG591195-3 QC Sample: L1302746-02 Client ID: MW-23						
Total Organic Carbon	1.21	1.09	mg/l	10		20
General Chemistry - Westborough Lab Associated sample(s): 07-08 QC Batch ID: WG591232-3 QC Sample: L1302810-02 Client ID: DUP Sample						
Phenolics, Total	ND	0.02J	mg/l	NC		12
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG591369-4 QC Sample: L1302746-05 Client ID: MW-24						
Bromide	0.067	0.066	mg/l	1		20
Chloride	37.7	38.3	mg/l	3		18
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG591369-4 QC Sample: L1302746-05 Client ID: MW-24						
Sulfate	108.	109.	mg/l	1		20

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
D	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302746-01A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-02A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-02B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-02C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-02D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-5310(28)
L1302746-02E	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-5310(28)
L1302746-02F	Plastic 1000ml unpreserved	A	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302746-02G	Plastic 1000ml unpreserved	A	7	2	Y	Absent	BOD-5210(2)
L1302746-02H	Plastic 250ml unpreserved	A	N/A	2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302746-02I	Amber 250ml unpreserved	A	7	2	Y	Absent	SALINITY(28)
L1302746-02J	Amber 1000ml H2SO4 preserved	A	<2	2	Y	Absent	TPHENOL-420(28)
L1302746-02K	Plastic 500ml H2SO4 preserved	A	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-02L	Plastic 250ml NaOH preserved	A	>12	2	Y	Absent	TCN-9010(14)
L1302746-02M	Plastic 500ml HNO3 preserved	A	<2	2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302746-02N	Plastic 250ml unpreserved	A	N/A	2	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302746-03A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-03B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-03C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-03D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1302746-03E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1302746-03F	Plastic 1000ml unpreserved	B	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302746-03G	Plastic 1000ml unpreserved	B	7	3	Y	Absent	BOD-5210(2)
L1302746-03H	Plastic 250ml unpreserved	B	N/A	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302746-03I	Amber 250ml unpreserved	B	7	3	Y	Absent	SALINITY(28)
L1302746-03J	Amber 1000ml H2SO4 preserved	B	<2	3	Y	Absent	TPHENOL-420(28)
L1302746-03K	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-03L	Plastic 250ml NaOH preserved	B	>12	3	Y	Absent	TCN-9010(14)
L1302746-03M	Plastic 500ml HNO3 preserved	B	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302746-03N	Plastic 250ml unpreserved	B	N/A	3	Y	Absent	ALK-T-2320(14)
L1302746-03X	Plastic 250ml H2SO4 preserved sp	B	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-04A	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1302746-04B	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1302746-04C	Vial HCl preserved	B	N/A	3	Y	Absent	NYTCL-8260(14)
L1302746-04D	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1302746-04E	Vial H2SO4 preserved	B	N/A	3	Y	Absent	TOC-5310(28)
L1302746-04F	Plastic 1000ml unpreserved	B	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302746-04G	Plastic 1000ml unpreserved	B	7	3	Y	Absent	BOD-5210(2)
L1302746-04H	Plastic 250ml unpreserved	B	N/A	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302746-04I	Amber 250ml unpreserved	B	7	3	Y	Absent	SALINITY(28)
L1302746-04J	Amber 1000ml H2SO4 preserved	B	<2	3	Y	Absent	TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302746-04K	Plastic 500ml H2SO4 preserved	B	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-04L	Plastic 250ml NaOH preserved	B	>12	3	Y	Absent	TCN-9010(14)
L1302746-04M	Plastic 500ml HNO3 preserved	B	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302746-04N	Plastic 250ml unpreserved	B	N/A	3	Y	Absent	ALK-T-2320(14)
L1302746-04X	Plastic 250ml H2SO4 preserved sp	B	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-05A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-05B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-05C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-05D	Vial H2SO4 preserved	C	N/A	2	Y	Absent	TOC-5310(28)
L1302746-05E	Vial H2SO4 preserved	C	N/A	2	Y	Absent	TOC-5310(28)
L1302746-05F	Plastic 1000ml unpreserved	C	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302746-05G	Plastic 1000ml unpreserved	C	7	2	Y	Absent	BOD-5210(2)
L1302746-05H	Plastic 250ml unpreserved	C	N/A	2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302746-05I	Amber 250ml unpreserved	C	7	2	Y	Absent	SALINITY(28)
L1302746-05J	Amber 1000ml H2SO4 preserved	C	<2	2	Y	Absent	TPHENOL-420(28)
L1302746-05K	Plastic 500ml H2SO4 preserved	C	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-05L	Plastic 250ml NaOH preserved	C	>12	2	Y	Absent	TCN-9010(14)
L1302746-05M	Plastic 500ml HNO3 preserved	C	<2	2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302746-05N	Plastic 250ml unpreserved	C	N/A	2	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302746-05X	Plastic 250ml H2SO4 preserved sp	C	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-06A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-06B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-06C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-06D	Vial H2SO4 preserved	C	N/A	2	Y	Absent	TOC-5310(28)
L1302746-06E	Vial H2SO4 preserved	C	N/A	2	Y	Absent	TOC-5310(28)
L1302746-06F	Plastic 1000ml unpreserved	C	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302746-06G	Plastic 1000ml unpreserved	C	7	2	Y	Absent	BOD-5210(2)
L1302746-06H	Plastic 250ml unpreserved	C	N/A	2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302746-06I	Amber 250ml unpreserved	C	7	2	Y	Absent	SALINITY(28)
L1302746-06J	Amber 1000ml H2SO4 preserved	C	<2	2	Y	Absent	TPHENOL-420(28)
L1302746-06K	Plastic 500ml H2SO4 preserved	C	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-06L	Plastic 250ml NaOH preserved	C	>12	2	Y	Absent	TCN-9010(14)
L1302746-06M	Plastic 500ml HNO3 preserved	C	<2	2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302746-06N	Plastic 250ml unpreserved	C	N/A	2	Y	Absent	ALK-T-2320(14)
L1302746-07A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-07B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-07C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-07D	Vial H2SO4 preserved	D	N/A	4	Y	Absent	TOC-5310(28)
L1302746-07E	Vial H2SO4 preserved	D	N/A	4	Y	Absent	TOC-5310(28)
L1302746-07F	Plastic 1000ml unpreserved	D	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302746-07G	Plastic 1000ml unpreserved	D	7	4	Y	Absent	BOD-5210(2)
L1302746-07H	Plastic 250ml unpreserved	D	N/A	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302746-07I	Amber 250ml unpreserved	D	7	4	Y	Absent	SALINITY(28)
L1302746-07J	Amber 1000ml H2SO4 preserved	D	<2	4	Y	Absent	TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302746-07K	Plastic 500ml H2SO4 preserved	D	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-07L	Plastic 250ml NaOH preserved	D	>12	4	Y	Absent	TCN-9010(14)
L1302746-07M	Plastic 500ml HNO3 preserved	D	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302746-07N	Plastic 250ml unpreserved	D	N/A	4	Y	Absent	ALK-T-2320(14)
L1302746-07X	Plastic 250ml H2SO4 preserved sp	D	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-08A	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-08B	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-08C	Vial HCl preserved	A	N/A	2	Y	Absent	NYTCL-8260(14)
L1302746-08D	Vial H2SO4 preserved	D	N/A	4	Y	Absent	TOC-5310(28)
L1302746-08E	Vial H2SO4 preserved	D	N/A	4	Y	Absent	TOC-5310(28)
L1302746-08F	Plastic 1000ml unpreserved	D	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302746-08G	Plastic 1000ml unpreserved	D	7	4	Y	Absent	BOD-5210(2)
L1302746-08H	Plastic 250ml unpreserved	D	N/A	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302746-08I	Amber 250ml unpreserved	D	7	4	Y	Absent	SALINITY(28)
L1302746-08J	Amber 1000ml H2SO4 preserved	D	<2	4	Y	Absent	TPHENOL-420(28)
L1302746-08K	Plastic 500ml H2SO4 preserved	D	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302746-08L	Plastic 250ml NaOH preserved	D	>12	4	Y	Absent	TCN-9010(14)
L1302746-08M	Plastic 500ml HNO3 preserved	D	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302746-08N	Plastic 250ml unpreserved	D	N/A	4	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302746
Report Date: 02/22/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302746-08X	Plastic 250ml H2SO4 preserved sp	D	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)

Container Comments

L1302746-04F

L1302746-07G

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1302746
Project Number:	08.8696	**Report Date:**	02/22/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1302746

Project Number: 08.8696 **Report Date:** 02/22/13

Data Qualifiers

due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1302746
Project Number: 08.8696 **Report Date:** 02/22/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertOT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/15/13

ALPHA Job #: L1302746

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: K.Moline@ctmale.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/22/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NYSDEC RSP Category B	

Other Project Specific Requirements/Comments/Detection Limits:
NYCRR Part 360 Baseline Parameters

ANALYSIS: Total Hardness, Total phenols; Total Cyanide; Cl, Br, Sulfate, TDS, Nitrate; Total Alkalinity; Total Organic Carbon; COD, Ammonia, TKN; BOD; VOC (Baseline List); Hexavalent Chrome, Color; Salinity

SAMPLE HANDLING
Filtration ☐ Done ☒ Not needed ☐ Lab to do
Preservation ☐ Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total phenols	Total Cyanide	Cl, Br, Sulfate, TDS, Nitrate	Total Alkalinity	Total Organic Carbon	COD, Ammonia, TKN	BOD	VOC (Baseline List)	Hexavalent Chrome, Color	Salinity	Sample Specific Comments	TOTAL # BOTTLES
02746.1	transport blank	—	—	—	—							X					1
2	MW-23	2/15/13	0745	GW	SD	X	X	X	X	X	X	X	X	X	X		14
3	MW-32	↓	0845	↓	SD	X	X	X	X	X	X	X	X	X	X		14
4	MW-33		0935		SD	X	X	X	X	X	X	X	X	X	X		14
5	MW-24		1030		SD	X	X	X	X	X	X	X	X	X	X		14
6	MW-25		1105		SD	X	X	X	X	X	X	X	X	X	X		14
7	MW-31		1155		SD	X	X	X	X	X	X	X	X	X	X		14
8	MW-30	2/15/13	1230	GW	SD	X	X	X	X	X	X	X	X	X	X		14

Container Type	P	P	P	A	P	V	P	P	V	P	A
Preservative	C	E	A	D	A	D	D	A	B	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/15/13 1725	[signature]	2-15-13 2030
[signature]	2/15/13 2030	Kyle Cunningham	2/15/13 2030
Kyle Cunningham	2/15/13 2330	[signature]	2/15/13 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1302654
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT
Project Number:	08.8696
Report Date:	03/07/13

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1302654-01	TRANSPORT BLANK	READING, NY	02/14/13 00:00
L1302654-02	MW-27	READING, NY	02/14/13 07:50
L1302654-03	MW-36	READING, NY	02/14/13 08:35
L1302654-04	MW-37	READING, NY	02/14/13 09:20
L1302654-05	MW-28	READING, NY	02/14/13 12:30
L1302654-06	MW-38	READING, NY	02/14/13 12:00
L1302654-07	MW-29	READING, NY	02/14/13 10:40
L1302654-08	MW-39	READING, NY	02/14/13 11:15
L1302654-09	MW-35	READING, NY	02/14/13 10:00
L1302654-10	MW-34	READING, NY	02/14/13 14:00
L1302654-11	MW-26	READING, NY	02/14/13 14:45
L1302654-12	MW-22	READING, NY	02/14/13 16:55

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Hardness

The WG590394-4 MS recovery (0%), performed on L1302654-12, does not apply because the sample concentration is greater than four times the spike amount added.

Total Metals

The WG590393-3 Laboratory Duplicate RPD, performed on L1302654-12, is above the acceptance criteria for Antimony (26%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

Dissolved Metals

The WG590838-3 Laboratory Duplicate RPD, performed on L1302654-07, is above the acceptance criteria for Nickel (29%); however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPD is valid.

The WG590838-3 Laboratory Duplicate RPDs, performed on L1302654-07, are outside the acceptance criteria for Aluminum (36%) and Iron (27%). The elevated RPDs have been attributed to the non-homogeneous nature of the sample utilized for the laboratory duplicate.

Bromide

L1302654-02 and -12 have elevated detection limits due to the dilutions required by the sample matrices.

Nitrogen, Ammonia

WG590418: A laboratory duplicate was prepared with the sample batch, however, the sample and duplicate required re-analysis; therefore, the duplicate result could not be reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 03/07/13

ORGANICS

VOLATILES

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-01	Date Collected:	02/14/13 00:00
Client ID:	TRANSPORT BLANK	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 15:15		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-01 Date Collected: 02/14/13 00:00

Client ID: TRANSPORT BLANK Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-02	Date Collected:	02/14/13 07:50
Client ID:	MW-27	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 15:41		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-02 Date Collected: 02/14/13 07:50

Client ID: MW-27 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-03	Date Collected:	02/14/13 08:35
Client ID:	MW-36	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 16:06		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-03 Date Collected: 02/14/13 08:35

Client ID: MW-36 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.6	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-04	Date Collected:	02/14/13 09:20
Client ID:	MW-37	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 16:32		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-04 Date Collected: 02/14/13 09:20

Client ID: MW-37 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-05	Date Collected:	02/14/13 12:30
Client ID:	MW-28	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 16:57		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-05 Date Collected: 02/14/13 12:30

Client ID: MW-28 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-06	Date Collected:	02/14/13 12:00
Client ID:	MW-38	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 17:23		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-06 Date Collected: 02/14/13 12:00

Client ID: MW-38 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-07	Date Collected:	02/14/13 10:40
Client ID:	MW-29	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 17:48		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-07 Date Collected: 02/14/13 10:40

Client ID: MW-29 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-08	Date Collected:	02/14/13 11:15
Client ID:	MW-39	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 18:13		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-08 Date Collected: 02/14/13 11:15

Client ID: MW-39 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-09	Date Collected:	02/14/13 10:00
Client ID:	MW-35	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	02/16/13 18:39		
Analyst:	TR		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-09 Date Collected: 02/14/13 10:00

Client ID: MW-35 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	8.6		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-10
Client ID: MW-34
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/16/13 19:04
Analyst: TR

Date Collected: 02/14/13 14:00
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-10 Date Collected: 02/14/13 14:00

Client ID: MW-34 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-11
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/16/13 19:29
Analyst: TR

Date Collected: 02/14/13 14:45
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-11 Date Collected: 02/14/13 14:45

Client ID: MW-26 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	1.1	J	ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-12
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 02/16/13 19:55
Analyst: TR

Date Collected: 02/14/13 16:55
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.16	1
1,2-Dichloropropane	ND		ug/l	1.0	0.30	1
Dibromochloromethane	ND		ug/l	0.50	0.19	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.16	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19	1
Benzene	ND		ug/l	0.50	0.19	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.18	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-12 Date Collected: 02/14/13 16:55

Client ID: MW-22 Date Received: 02/14/13

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/16/13 14:36
Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG590595-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.16
1,2-Dichloropropane	ND		ug/l	1.0	0.30
Dibromochloromethane	ND		ug/l	0.50	0.19
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.16
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.19
Benzene	ND		ug/l	0.50	0.19
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.18
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 02/16/13 14:36
Analyst: TR

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-12 Batch: WG590595-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG590595-1 WG590595-2								
Methylene chloride	105		93		70-130	12		20
1,1-Dichloroethane	103		96		70-130	7		20
Chloroform	102		95		70-130	7		20
2-Chloroethylvinyl ether	95		96		70-130	1		20
Carbon tetrachloride	106		100		63-132	6		20
1,2-Dichloropropane	100		97		70-130	3		20
Dibromochloromethane	92		92		63-130	0		20
1,1,2-Trichloroethane	95		95		70-130	0		20
Tetrachloroethene	104		99		70-130	5		20
Chlorobenzene	99		94		75-130	5		20
Trichlorofluoromethane	110		103		62-150	7		20
1,2-Dichloroethane	97		94		70-130	3		20
1,1,1-Trichloroethane	104		99		67-130	5		20
Bromodichloromethane	98		95		67-130	3		20
trans-1,3-Dichloropropene	92		90		70-130	2		20
cis-1,3-Dichloropropene	100		96		70-130	4		20
1,1-Dichloropropene	105		99		70-130	6		20
Bromoform	82		86		54-136	5		20
1,1,2,2-Tetrachloroethane	88		91		67-130	3		20
Benzene	105		97		70-130	8		20
Toluene	101		95		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG590595-1 WG590595-2								
Ethylbenzene	99		94		70-130	5		20
Chloromethane	120		97		64-130	**21**	Q	20
Bromomethane	107		98		39-139	9		20
Vinyl chloride	110		103		55-140	7		20
Chloroethane	116		105		55-138	10		20
1,1-Dichloroethene	106		100		61-145	6		20
trans-1,2-Dichloroethene	104		98		70-130	6		20
Trichloroethene	103		99		70-130	4		20
1,2-Dichlorobenzene	95		92		70-130	3		20
1,3-Dichlorobenzene	97		91		70-130	6		20
1,4-Dichlorobenzene	96		90		70-130	6		20
Methyl tert butyl ether	96		94		63-130	2		20
p/m-Xylene	101		96		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	103		96		70-130	7		20
Dibromomethane	99		98		70-130	1		20
1,2,3-Trichloropropane	79		82		64-130	4		20
Acrylonitrile	93		95		70-130	2		20
Isopropyl Ether	98		93		70-130	5		20
tert-Butyl Alcohol	92		103		70-130	11		20
Styrene	100		96		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG590595-1 WG590595-2								
Dichlorodifluoromethane	107		100		36-147	7		20
Acetone	131		94		58-148	**33**	Q	20
Carbon disulfide	109		94		51-130	15		20
2-Butanone	92		106		63-138	14		20
Vinyl acetate	94		90		70-130	4		20
4-Methyl-2-pentanone	89		94		59-130	5		20
2-Hexanone	81		89		57-130	9		20
Acrolein	117		89		40-160	**27**	Q	20
Bromochloromethane	103		100		70-130	3		20
2,2-Dichloropropane	106		98		63-133	8		20
1,2-Dibromoethane	93		93		70-130	0		20
1,3-Dichloropropane	94		94		70-130	0		20
1,1,1,2-Tetrachloroethane	97		94		64-130	3		20
Bromobenzene	95		91		70-130	4		20
n-Butylbenzene	99		93		53-136	6		20
sec-Butylbenzene	98		94		70-130	4		20
tert-Butylbenzene	98		93		70-130	5		20
o-Chlorotoluene	96		90		70-130	6		20
p-Chlorotoluene	95		90		70-130	5		20
1,2-Dibromo-3-chloropropane	88		86		41-144	2		20
Hexachlorobutadiene	100		93		63-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG590595-1 WG590595-2								
Isopropylbenzene	96		92		70-130	4		20
p-Isopropyltoluene	99		93		70-130	6		20
Naphthalene	89		91		70-130	2		20
n-Propylbenzene	97		92		69-130	5		20
1,2,3-Trichlorobenzene	92		92		70-130	0		20
1,2,4-Trichlorobenzene	94		90		70-130	4		20
1,3,5-Trimethylbenzene	97		92		64-130	5		20
1,2,4-Trimethylbenzene	97		92		70-130	5		20
Methyl Acetate	92		94		70-130	2		20
Ethyl Acetate	93		90		70-130	3		20
Cyclohexane	110		102		70-130	8		20
Ethyl-Tert-Butyl-Ether	96		94		70-130	2		20
Tertiary-Amyl Methyl Ether	95		95		66-130	0		20
1,4-Dioxane	95		120		56-162	**23**	Q	20
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		105		70-130	4		20
1,4-Diethylbenzene	99		93		70-130	6		20
4-Ethyltoluene	98		93		70-130	5		20
1,2,4,5-Tetramethylbenzene	97		90		70-130	7		20
Ethyl ether	98		95		59-134	3		20
trans-1,4-Dichloro-2-butene	81		80		70-130	1		20
Iodomethane	85		79		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-12 Batch: WG590595-1 WG590595-2								
Methyl cyclohexane	110		105		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	98		97		70-130

METALS

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-02	Date Collected:	02/14/13 07:50
Client ID:	MW-27	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.144		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Antimony, Total	0.0014	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0038		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Barium, Total	0.0294		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Boron, Total	0.062		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 17:57	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Chromium, Total	0.0004	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0013		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Copper, Total	0.0006	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Iron, Total	0.501		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Lead, Total	0.0003	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Magnesium, Total	26.7		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:36	EPA 7470A	1,7470A	JH
Nickel, Total	0.0022		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Potassium, Total	10.8		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Silver, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Thallium, Total	0.00005	J	mg/l	0.00050	0.00003	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0002	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Zinc, Total	0.0088	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 11:45	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	300		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 14:21	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-02 D	Date Collected:	02/14/13 07:50
Client ID:	MW-27	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	88.6		mg/l	0.500	0.160	5	02/15/13 09:11	02/16/13 12:01	EPA 3005A	1,6020A	AK
Manganese, Total	0.4967		mg/l	0.0025	0.0005	5	02/15/13 09:11	02/16/13 12:01	EPA 3005A	1,6020A	AK
Sodium, Total	83.6		mg/l	0.500	0.075	5	02/15/13 09:11	02/16/13 12:01	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-03
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 08:35
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.184		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Antimony, Total	0.0010	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0032		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Barium, Total	0.0518		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Boron, Total	0.044		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:01	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Chromium, Total	0.0005	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0004	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Copper, Total	0.0004	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Iron, Total	0.332		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Lead, Total	0.0002	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Magnesium, Total	23.7		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Manganese, Total	0.1198		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:46	EPA 7470A	1,7470A	JH
Nickel, Total	0.0006		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Potassium, Total	8.81		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Silver, Total	0.0001	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Sodium, Total	7.29		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Thallium, Total	0.00003	J	mg/l	0.00050	0.00003	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0008	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Zinc, Total	0.0082	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:04	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	240		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 14:25	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-03 D	Date Collected:	02/14/13 08:35
Client ID:	MW-36	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	65.2		mg/l	0.500	0.160	5	02/15/13 09:11	02/16/13 12:07	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-04
Client ID: MW-37
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 09:20
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.343		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Antimony, Total	0.0011	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0047		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Barium, Total	0.0856		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Boron, Total	0.083		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:05	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Chromium, Total	0.0008	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0004	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Copper, Total	0.0006	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Iron, Total	0.756		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Lead, Total	0.0006	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Magnesium, Total	16.7		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Manganese, Total	0.1092		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:47	EPA 7470A	1,7470A	JH
Nickel, Total	0.0008		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Potassium, Total	2.62		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Silver, Total	0.0001	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Sodium, Total	14.1		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0005	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Zinc, Total	0.0096	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:10	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 14:29	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-04 D	Date Collected:	02/14/13 09:20
Client ID:	MW-37	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	52.6		mg/l	0.500	0.160	5	02/15/13 09:11	02/16/13 12:14	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-05
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 12:30
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.460		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Antimony, Total	0.0015	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0078		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Barium, Total	0.0975		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Boron, Total	0.084		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:09	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Chromium, Total	0.0008	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0004	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Copper, Total	0.0007	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Iron, Total	0.955		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Lead, Total	0.0012		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Magnesium, Total	16.5		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Manganese, Total	0.0969		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:49	EPA 7470A	1,7470A	JH
Nickel, Total	0.0009		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Potassium, Total	3.53		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Silver, Total	0.0001	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Sodium, Total	11.6		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0009	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Zinc, Total	0.0108		mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:17	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 14:45	EPA 3005A	1,6010C	KL
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.035		mg/l	0.010	0.002	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Antimony, Dissolved	0.0012	J	mg/l	0.0015	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-05
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 12:30
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Arsenic, Dissolved	0.0054		mg/l	0.0005	0.0002	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Barium, Dissolved	0.0745		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Boron, Dissolved	0.074		mg/l	0.030	0.008	1	02/19/13 10:36	02/20/13 11:53	NA	1,6010C	KL
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Calcium, Dissolved	48.3		mg/l	0.100	0.032	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Copper, Dissolved	0.0003	J	mg/l	0.0010	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Iron, Dissolved	0.056		mg/l	0.050	0.013	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Magnesium, Dissolved	14.1		mg/l	0.100	0.023	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Manganese, Dissolved	0.0621		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 16:43	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.0004	J	mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Potassium, Dissolved	3.20		mg/l	0.100	0.027	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Silver, Dissolved	0.0001	J	mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Sodium, Dissolved	10.2		mg/l	0.100	0.015	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Vanadium, Dissolved	0.0003	J	mg/l	0.0050	0.0001	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK
Zinc, Dissolved	0.0066	J	mg/l	0.0100	0.0012	1	02/15/13 04:39	02/20/13 13:23	NA	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-05 D	Date Collected:	02/14/13 12:30
Client ID:	MW-28	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	56.4		mg/l	0.500	0.160	5	02/15/13 09:11	02/16/13 12:20	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-06
Client ID: MW-38
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 12:00
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.041		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Antimony, Total	0.0013	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0009	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Barium, Total	0.0065		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Boron, Total	0.011	J	mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:13	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Calcium, Total	25.4		mg/l	0.100	0.032	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Chromium, Total	0.0004	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Copper, Total	0.0003	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Iron, Total	0.049	J	mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Magnesium, Total	6.88		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Manganese, Total	0.0029		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:51	EPA 7470A	1,7470A	JH
Nickel, Total	0.0004	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Potassium, Total	0.506		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Sodium, Total	2.07		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Zinc, Total	0.0103		mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:23	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	79		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 14:49	EPA 3005A	1,6010C	KL

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-07
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 10:40
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.023		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Antimony, Total	0.0005	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0006	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Barium, Total	0.0082		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Boron, Total	0.014	J	mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:17	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Calcium, Total	47.6		mg/l	0.100	0.032	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Chromium, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Copper, Total	0.0002	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Iron, Total	0.025	J	mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Magnesium, Total	11.6		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Manganese, Total	0.0690		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:53	EPA 7470A	1,7470A	JH
Nickel, Total	0.0003	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Potassium, Total	0.612		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Sodium, Total	2.77		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Zinc, Total	0.0095	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:26	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	140		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 14:53	EPA 3005A	1,6010C	KL

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-07
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 10:40
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Westborough Lab											
Aluminum, Dissolved	0.124		mg/l	0.010	0.002	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Antimony, Dissolved	0.0020		mg/l	0.0015	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Arsenic, Dissolved	0.0075		mg/l	0.0005	0.0002	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Barium, Dissolved	0.1128		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Boron, Dissolved	0.096		mg/l	0.030	0.008	1	02/19/13 10:36	02/20/13 11:35	NA	1,6010C	KL
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Calcium, Dissolved	48.0		mg/l	0.100	0.032	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Chromium, Dissolved	0.0003	J	mg/l	0.0010	0.0002	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Cobalt, Dissolved	0.0002	J	mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Copper, Dissolved	0.0005	J	mg/l	0.0010	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Iron, Dissolved	0.150		mg/l	0.050	0.013	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Magnesium, Dissolved	12.5		mg/l	0.100	0.023	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Manganese, Dissolved	0.0683		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 16:49	EPA 7470A	1,7470A	JH
Nickel, Dissolved	0.0007		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Potassium, Dissolved	2.23		mg/l	0.100	0.027	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Sodium, Dissolved	10.8		mg/l	0.100	0.015	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Vanadium, Dissolved	0.0009	J	mg/l	0.0050	0.0001	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK
Zinc, Dissolved	0.00290	J	mg/l	0.0100	0.0012	1	02/15/13 04:39	02/20/13 13:04	NA	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-08
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 11:15
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.473		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Antimony, Total	0.00198	J	mg/l	0.00200	0.00010	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0104		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Barium, Total	0.1293		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Boron, Total	0.106		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:37	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Chromium, Total	0.0008	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0004	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Copper, Total	0.0008	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Iron, Total	0.935		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Lead, Total	0.0009	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Magnesium, Total	13.4		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Manganese, Total	0.0937		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:55	EPA 7470A	1,7470A	JH
Nickel, Total	0.0012		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Potassium, Total	2.37		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Silver, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Sodium, Total	11.3		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0012	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Zinc, Total	0.0104		mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:29	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 14:57	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-08 D	Date Collected:	02/14/13 11:15
Client ID:	MW-39	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	52.3		mg/l	0.500	0.160	5	02/15/13 09:11	02/16/13 12:42	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-09
Client ID: MW-35
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 10:00
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.261		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Antimony, Total	0.0011	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0010		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Barium, Total	0.080		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Boron, Total	0.092		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:49	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Calcium, Total	39.3		mg/l	0.100	0.032	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Chromium, Total	0.0005	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Copper, Total	0.0001	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Iron, Total	0.456		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Lead, Total	0.0002	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Magnesium, Total	11.6		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Manganese, Total	0.0859		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:57	EPA 7470A	1,7470A	JH
Nickel, Total	0.00047	J	mg/l	0.00050	0.00010	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Potassium, Total	13.7		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Silver, Total	0.0001	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Sodium, Total	11.2		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0003	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Zinc, Total	0.0086	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:45	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	130		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 15:01	EPA 3005A	1,6010C	KL

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-10
Client ID: MW-34
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 14:00
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Antimony, Total	0.0014	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0014		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Barium, Total	0.1001		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Boron, Total	0.081		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:53	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Calcium, Total	43.5		mg/l	0.100	0.032	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Chromium, Total	0.0010		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0003	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Copper, Total	0.0002	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Iron, Total	1.14		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Lead, Total	0.0004	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Magnesium, Total	13.0		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Manganese, Total	0.0825		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:59	EPA 7470A	1,7470A	JH
Nickel, Total	0.0009		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Potassium, Total	6.68		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Silver, Total	0.0001	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Sodium, Total	12.6		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0007	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Zinc, Total	0.0098	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:48	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	140		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 15:05	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-10 D	Date Collected:	02/14/13 14:00
Client ID:	MW-34	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.562		mg/l	0.050	0.010	5	02/15/13 09:11	02/16/13 12:51	EPA 3005A	1,6020A	AK

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-11
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 14:45
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.042		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Antimony, Total	0.0016	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0043		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Barium, Total	0.0399		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Boron, Total	0.120		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 18:57	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Chromium, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Copper, Total	ND		mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Iron, Total	0.569		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Magnesium, Total	24.7		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Manganese, Total	0.1262		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 18:01	EPA 7470A	1,7470A	JH
Nickel, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Potassium, Total	3.37		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Silver, Total	0.0001	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Sodium, Total	18.5		mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Zinc, Total	0.0092	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 12:54	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	270		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 15:09	EPA 3005A	1,6010C	KL

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-11 D	Date Collected:	02/14/13 14:45
Client ID:	MW-26	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	79.4		mg/l	0.500	0.160	5	02/15/13 09:11	02/16/13 12:57	EPA 3005A	1,6020A	AK

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

SAMPLE RESULTS

Lab ID:	L1302654-12	Date Collected:	02/14/13 16:55
Client ID:	MW-22	Date Received:	02/14/13
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.061		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Antimony, Total	0.0037		mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Arsenic, Total	0.0015		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Barium, Total	0.1147		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Boron, Total	0.107		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 17:41	EPA 3005A	1,6010C	KL
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Chromium, Total	0.0003	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Cobalt, Total	0.0004	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Copper, Total	0.0002	J	mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Iron, Total	0.369		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Manganese, Total	0.3343		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 18:02	EPA 7470A	1,7470A	JH
Nickel, Total	0.0007		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Potassium, Total	7.96		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Silver, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Thallium, Total	ND		mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Vanadium, Total	0.0002	J	mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Zinc, Total	0.0084	J	mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 11:27	EPA 3005A	1,6020A	AK
Total Hardness by SM 2340B - Westborough Lab											
Hardness	720		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 12:19	EPA 3005A	1,6010C	KL

Project Name: US SALT
Project Number: 08.8696
Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-12 D
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 16:55
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Calcium, Total	175		mg/l	0.500	0.160	5	02/15/13 09:11	02/16/13 11:39	EPA 3005A	1,6020A	AK
Magnesium, Total	82.2		mg/l	0.500	0.115	5	02/15/13 09:11	02/16/13 11:39	EPA 3005A	1,6020A	AK
Sodium, Total	160		mg/l	0.500	0.075	5	02/15/13 09:11	02/16/13 11:39	EPA 3005A	1,6020A	AK

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-12 Batch: WG590393-1										
Aluminum, Total	ND		mg/l	0.010	0.002	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Antimony, Total	0.0015	J	mg/l	0.0020	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Arsenic, Total	0.0006	J	mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Barium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Beryllium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Cadmium, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Calcium, Total	ND		mg/l	0.100	0.032	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Chromium, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Cobalt, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Copper, Total	ND		mg/l	0.0010	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Iron, Total	ND		mg/l	0.050	0.013	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Lead, Total	ND		mg/l	0.0010	0.0002	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Magnesium, Total	ND		mg/l	0.100	0.023	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Manganese, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Nickel, Total	ND		mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Potassium, Total	ND		mg/l	0.100	0.027	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Selenium, Total	ND		mg/l	0.005	0.0003	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Silver, Total	0.0002	J	mg/l	0.0005	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Sodium, Total	0.017	J	mg/l	0.100	0.015	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Thallium, Total	0.0001	J	mg/l	0.0005	0.00003	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Vanadium, Total	ND		mg/l	0.0050	0.0001	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK
Zinc, Total	ND		mg/l	0.0100	0.0012	1	02/15/13 09:11	02/16/13 11:17	1,6020A	AK

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-12 Batch: WG590394-1										
Boron, Total	ND		mg/l	0.030	0.008	1	02/15/13 09:11	02/15/13 14:28	1,6010C	KL

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 02-12 Batch: WG590394-1										
Hardness	ND		mg/l	0.66	NA	1	02/15/13 09:11	02/18/13 12:11	1,6010C	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 05,07 Batch: WG590838-1										
Aluminum, Dissolved	ND		mg/l	0.010	0.002	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Antimony, Dissolved	0.0010	J	mg/l	0.0015	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Arsenic, Dissolved	0.0002	J	mg/l	0.0005	0.0002	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Barium, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Beryllium, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Cadmium, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Calcium, Dissolved	ND		mg/l	0.100	0.032	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Chromium, Dissolved	ND		mg/l	0.0010	0.0002	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Cobalt, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Copper, Dissolved	ND		mg/l	0.0010	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Iron, Dissolved	ND		mg/l	0.050	0.013	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Lead, Dissolved	ND		mg/l	0.0010	0.0002	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Magnesium, Dissolved	ND		mg/l	0.100	0.023	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Manganese, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Nickel, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Potassium, Dissolved	ND		mg/l	0.100	0.027	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Selenium, Dissolved	ND		mg/l	0.005	0.0003	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Silver, Dissolved	ND		mg/l	0.0005	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Sodium, Dissolved	0.065	J	mg/l	0.100	0.015	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Thallium, Dissolved	ND		mg/l	0.0005	0.00003	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK
Vanadium, Dissolved	ND		mg/l	0.0050	0.0001	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

Method Blank Analysis
Batch Quality Control

Zinc, Dissolved	0.0054	J	mg/l	0.0100	0.0012	1	02/15/13 04:39	02/20/13 12:55	1,6020A	AK

Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 05,07 Batch: WG590839-1										
Boron, Dissolved	ND		mg/l	0.030	0.008	1	02/19/13 10:36	02/20/13 11:20	1,6010C	KL

Prep Information

Digestion Method: NA

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Westborough Lab for sample(s): 05,07 Batch: WG590926-1										
Mercury, Dissolved	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 16:40	1,7470A	JH

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-12 Batch: WG590966-1										
Mercury, Total	ND		mg/l	0.0002	0.0001	1	02/19/13 19:17	02/20/13 17:32	1,7470A	JH

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-12 Batch: WG590393-2								
Aluminum, Total	112		-		80-120	-		
Antimony, Total	88		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	97		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	113		-		80-120	-		
Calcium, Total	109		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Cobalt, Total	102		-		80-120	-		
Copper, Total	106		-		80-120	-		
Iron, Total	98		-		80-120	-		
Lead, Total	102		-		80-120	-		
Magnesium, Total	118		-		80-120	-		
Manganese, Total	94		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	109		-		80-120	-		
Silver, Total	95		-		80-120	-		
Sodium, Total	119		-		80-120	-		
Thallium, Total	95		-		80-120	-		
Vanadium, Total	104		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-12 Batch: WG590393-2					
Zinc, Total	107	-	80-120	-	
Total Metals - Westborough Lab Associated sample(s): 02-12 Batch: WG590394-2					
Boron, Total	114	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-12 Batch: WG590394-2					
Hardness	103	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 Batch: WG590838-2					
Aluminum, Dissolved	110	-	80-120	-	
Antimony, Dissolved	85	-	80-120	-	
Arsenic, Dissolved	104	-	80-120	-	
Barium, Dissolved	94	-	80-120	-	
Beryllium, Dissolved	109	-	80-120	-	
Cadmium, Dissolved	110	-	80-120	-	
Calcium, Dissolved	105	-	80-120	-	
Chromium, Dissolved	93	-	80-120	-	
Cobalt, Dissolved	98	-	80-120	-	
Copper, Dissolved	99	-	80-120	-	
Iron, Dissolved	95	-	80-120	-	
Lead, Dissolved	101	-	80-120	-	
Magnesium, Dissolved	111	-	80-120	-	
Manganese, Dissolved	94	-	80-120	-	
Nickel, Dissolved	99	-	80-120	-	
Potassium, Dissolved	100	-	80-120	-	
Selenium, Dissolved	98	-	80-120	-	
Silver, Dissolved	96	-	80-120	-	
Sodium, Dissolved	114	-	80-120	-	
Thallium, Dissolved	95	-	80-120	-	
Vanadium, Dissolved	102	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 Batch: WG590838-2					
Zinc, Dissolved	106	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 Batch: WG590839-2					
Boron, Dissolved	104	-	80-120	-	
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 Batch: WG590926-2					
Mercury, Dissolved	93	-	70-130	-	
Total Metals - Westborough Lab Associated sample(s): 02-12 Batch: WG590966-2					
Mercury, Total	98	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590393-4 QC Sample: L1302654-12 Client ID: MW-22												
Aluminum, Total	0.061	2	2.23	108		-	-		80-120	-		20
Antimony, Total	0.0037	0.5	0.5038	100		-	-		80-120	-		20
Arsenic, Total	0.0015	0.12	0.1352	111		-	-		80-120	-		20
Barium, Total	0.1147	2	2.011	95		-	-		80-120	-		20
Beryllium, Total	ND	0.05	0.0523	105		-	-		80-120	-		20
Cadmium, Total	ND	0.051	0.0533	104		-	-		80-120	-		20
Calcium, Total	175.	10	186	110		-	-		80-120	-		20
Chromium, Total	0.0003J	0.2	0.1882	94		-	-		80-120	-		20
Cobalt, Total	0.0004J	0.5	0.4944	99		-	-		80-120	-		20
Copper, Total	0.0002J	0.25	0.2578	103		-	-		80-120	-		20
Iron, Total	0.369	1	1.32	95		-	-		80-120	-		20
Lead, Total	ND	0.51	0.5136	101		-	-		80-120	-		20
Magnesium, Total	82.2	10	94.2	120		-	-		80-120	-		20
Manganese, Total	0.3343	0.5	0.7764	88		-	-		80-120	-		20
Nickel, Total	0.0007	0.5	0.4896	98		-	-		80-120	-		20
Potassium, Total	7.96	10	18.1	101		-	-		80-120	-		20
Selenium, Total	ND	0.12	0.125	104		-	-		80-120	-		20
Silver, Total	0.0002J	0.05	0.0466	93		-	-		80-120	-		20
Sodium, Total	160.	10	171	110		-	-		80-120	-		20
Thallium, Total	ND	0.12	0.1145	95		-	-		80-120	-		20
Vanadium, Total	0.0002J	0.5	0.5197	104		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590393-4 QC Sample: L1302654-12 Client ID: MW-22										
Zinc, Total	0.0084J	0.5	0.5246	105		-	-	80-120	-	20
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590394-4 QC Sample: L1302654-12 Client ID: MW-22										
Boron, Total	0.107	1	1.28	117		-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590394-4 QC Sample: L1302654-12 Client ID: MW-22										
Hardness	720	66.2	720	**0**	Q	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590838-4 QC Sample: L1302654-07 Client ID: MW-29									
Aluminum, Dissolved	0.124	2	2.15	101	-	-	80-120	-	20
Antimony, Dissolved	0.0020	0.5	0.4440	88	-	-	80-120	-	20
Arsenic, Dissolved	0.0075	0.12	0.1392	110	-	-	80-120	-	20
Barium, Dissolved	0.1128	2	2.038	96	-	-	80-120	-	20
Beryllium, Dissolved	ND	0.05	0.0521	104	-	-	80-120	-	20
Cadmium, Dissolved	ND	0.051	0.0564	110	-	-	80-120	-	20
Calcium, Dissolved	48.0	10	57.7	97	-	-	80-120	-	20
Chromium, Dissolved	0.0003J	0.2	0.1894	95	-	-	80-120	-	20
Cobalt, Dissolved	0.0002J	0.5	0.4990	100	-	-	80-120	-	20
Copper, Dissolved	0.0005J	0.25	0.2495	100	-	-	80-120	-	20
Iron, Dissolved	0.150	1	1.15	100	-	-	80-120	-	20
Lead, Dissolved	ND	0.51	0.5155	101	-	-	80-120	-	20
Magnesium, Dissolved	12.5	10	23.1	106	-	-	80-120	-	20
Manganese, Dissolved	0.0683	0.5	0.5444	95	-	-	80-120	-	20
Nickel, Dissolved	0.0007	0.5	0.4937	98	-	-	80-120	-	20
Potassium, Dissolved	2.23	10	11.8	96	-	-	80-120	-	20
Selenium, Dissolved	ND	0.12	0.121	101	-	-	80-120	-	20
Silver, Dissolved	ND	0.05	0.0499	100	-	-	80-120	-	20
Sodium, Dissolved	10.8	10	21.3	105	-	-	80-120	-	20
Thallium, Dissolved	ND	0.12	0.1150	96	-	-	80-120	-	20
Vanadium, Dissolved	0.0009J	0.5	0.5091	102	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590838-4 QC Sample: L1302654-07 Client ID: MW-29									
Zinc, Dissolved	0.00290J	0.5	0.5574	111	-	-	80-120	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590839-4 QC Sample: L1302654-07 Client ID: MW-29									
Boron, Dissolved	0.096	1	1.14	104	-	-	75-125	-	20
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590926-4 QC Sample: L1302654-05 Client ID: MW-28									
Mercury, Dissolved	ND	0.001	0.0012	116	-	-	70-130	-	20
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590966-4 QC Sample: L1302654-02 Client ID: MW-27									
Mercury, Total	ND	0.001	0.0011	114	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590393-3 QC Sample: L1302654-12 Client ID: MW-22						
Aluminum, Total	0.061	0.062	mg/l	0		20
Antimony, Total	0.0037	0.0028	mg/l	**26**	Q	20
Arsenic, Total	0.0015	0.0016	mg/l	8		20
Barium, Total	0.1147	0.1079	mg/l	6		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.0003J	0.0002J	mg/l	NC		20
Cobalt, Total	0.0004J	0.0004J	mg/l	NC		20
Copper, Total	0.0002J	0.0006J	mg/l	NC		20
Iron, Total	0.369	0.368	mg/l	0		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.3343	0.3205	mg/l	4		20
Nickel, Total	0.0007	0.0008	mg/l	18		20
Potassium, Total	7.96	7.56	mg/l	5		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	0.0002J	0.0002J	mg/l	NC		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	0.0002J	0.0002J	mg/l	NC		20
Zinc, Total	0.0084J	0.0077J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590393-3 QC Sample: L1302654-12 Client ID: MW-22					
Calcium, Total	175.	169	mg/l	3	20
Magnesium, Total	82.2	77.6	mg/l	6	20
Sodium, Total	160.	153	mg/l	4	20
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590394-3 QC Sample: L1302654-12 Client ID: MW-22					
Boron, Total	0.107	0.105	mg/l	2	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590394-3 QC Sample: L1302654-12 Client ID: MW-22					
Hardness	720	640	mg/l	12	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590838-3 QC Sample: L1302654-07 Client ID: MW-29						
Antimony, Dissolved	0.0020	0.0014J	mg/l	NC		20
Arsenic, Dissolved	0.0075	0.0080	mg/l	6		20
Barium, Dissolved	0.1128	0.1125	mg/l	0		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	48.0	47.8	mg/l	0		20
Chromium, Dissolved	0.0003J	ND	mg/l	NC		20
Cobalt, Dissolved	0.0002J	ND	mg/l	NC		20
Copper, Dissolved	0.0005J	0.0002J	mg/l	NC		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	12.5	12.3	mg/l	2		20
Manganese, Dissolved	0.0683	0.0689	mg/l	1		20
Nickel, Dissolved	0.0007	0.0005	mg/l	**29**	Q	20
Potassium, Dissolved	2.23	2.22	mg/l	0		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	10.8	10.8	mg/l	0		20
Thallium, Dissolved	ND	ND	mg/l	NC		20
Vanadium, Dissolved	0.0009J	0.0005J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590838-3 QC Sample: L1302654-07 Client ID: MW-29						
Zinc, Dissolved	0.00290J	0.0074J	mg/l	NC		20
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590838-3 QC Sample: L1302654-07 Client ID: MW-29						
Aluminum, Dissolved	0.124	0.179	mg/l	**36**	Q	20
Iron, Dissolved	0.150	0.196	mg/l	**27**	Q	20
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590839-3 QC Sample: L1302654-07 Client ID: MW-29						
Boron, Dissolved	0.096	0.096	mg/l	0		20
Dissolved Metals - Westborough Lab Associated sample(s): 05,07 QC Batch ID: WG590926-3 QC Sample: L1302654-05 Client ID: MW-28						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590966-3 QC Sample: L1302654-02 Client ID: MW-27						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-02
Client ID: MW-27
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 07:50
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	17		A.P.C.U.	5.0	5.0	1	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	225.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	600		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:46	1,9010C/9012A	JO
Nitrogen, Ammonia	0.122		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:04	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	02/15/13 21:11	44,353.2	DB
Nitrogen, Total Kjeldahl	0.24	J	mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:50	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:38	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	2.46		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	0.02	J	mg/l	0.03	0.01	1	02/19/13 10:00	02/19/13 12:15	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:46	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.100	10	-	02/19/13 02:37	44,300.0	JT
Chloride	5.52		mg/l	5.00	1.68	10	-	02/19/13 02:37	44,300.0	JT
Sulfate	297.		mg/l	10.0	2.29	10	-	02/19/13 02:37	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-03
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 08:35
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	22		A.P.C.U.	5.0	5.0	1	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	220.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	300		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:47	1,9010C/9012A	JO
Nitrogen, Ammonia	0.445		mg/l	0.075	0.032	1	02/15/13 11:15	02/15/13 21:28	44,350.1	AT
Nitrogen, Nitrate	0.02	J	mg/l	0.10	0.02	1	-	02/15/13 21:12	44,353.2	DB
Nitrogen, Total Kjeldahl	0.53		mg/l	0.30	0.06	1	02/15/13 09:50	02/15/13 21:06	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/15/13 16:16	02/15/13 19:25	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	1.74		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 10:00	02/19/13 12:17	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:46	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 00:25	44,300.0	JT
Chloride	6.41		mg/l	0.500	0.168	1	-	02/19/13 00:25	44,300.0	JT
Sulfate	57.6		mg/l	1.00	0.229	1	-	02/19/13 00:25	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-04
Client ID: MW-37
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 09:20
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	60		A.P.C.U.	25	25.	5	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	192.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	240		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:49	1,9010C/9012A	JO
Nitrogen, Ammonia	0.332		mg/l	0.075	0.032	1	02/15/13 11:15	02/15/13 21:29	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	02/15/13 21:13	44,353.2	DB
Nitrogen, Total Kjeldahl	0.40		mg/l	0.30	0.06	1	02/15/13 09:50	02/15/13 21:07	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	11	J	mg/l	20	7.0	1	02/15/13 16:16	02/15/13 19:26	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	1.13		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	0.01	J	mg/l	0.03	0.01	1	02/19/13 10:00	02/19/13 15:14	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:46	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 00:37	44,300.0	JT
Chloride	0.763		mg/l	0.500	0.168	1	-	02/19/13 00:37	44,300.0	JT
Sulfate	29.1		mg/l	1.00	0.229	1	-	02/19/13 00:37	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-05
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 12:30
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	60		A.P.C.U.	25	25.	5	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	178.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	220		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:50	1,9010C/9012A	JO
Nitrogen, Ammonia	0.291		mg/l	0.075	0.032	1	02/15/13 11:15	02/15/13 21:30	44,350.1	AT
Nitrogen, Nitrate	0.03	J	mg/l	0.10	0.02	1	-	02/15/13 21:14	44,353.2	DB
Nitrogen, Total Kjeldahl	0.68		mg/l	0.30	0.06	1	02/15/13 09:50	02/15/13 21:08	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	8.3	J	mg/l	20	7.0	1	02/15/13 16:16	02/15/13 19:26	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	1.31		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	0.01	J	mg/l	0.03	0.01	1	02/19/13 10:00	02/19/13 15:14	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:46	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 00:49	44,300.0	JT
Chloride	1.83		mg/l	0.500	0.168	1	-	02/19/13 00:49	44,300.0	JT
Sulfate	35.4		mg/l	1.00	0.229	1	-	02/19/13 00:49	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-06
Client ID: MW-38
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 12:00
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	19		A.P.C.U.	5.0	5.0	1	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	77.0		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	38		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:53	1,9010C/9012A	JO
Nitrogen, Ammonia	ND		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:05	44,350.1	AT
Nitrogen, Nitrate	0.46		mg/l	0.10	0.02	1	-	02/15/13 21:14	44,353.2	DB
Nitrogen, Total Kjeldahl	0.11	J	mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:51	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:38	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	1.28		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	0.01	J	mg/l	0.03	0.01	1	02/19/13 10:00	02/19/13 15:15	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:46	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 01:01	44,300.0	JT
Chloride	1.56		mg/l	0.500	0.168	1	-	02/19/13 01:01	44,300.0	JT
Sulfate	11.0		mg/l	1.00	0.229	1	-	02/19/13 01:01	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-07
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 10:40
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	60		A.P.C.U.	25	25.	5	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	174.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	200		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:53	1,9010C/9012A	JO
Nitrogen, Ammonia	0.117		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:06	44,350.1	AT
Nitrogen, Nitrate	0.14		mg/l	0.10	0.02	1	-	02/15/13 21:15	44,353.2	DB
Nitrogen, Total Kjeldahl	0.32		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:55	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	20		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:39	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	1.23		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 10:00	02/19/13 15:15	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:47	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 01:13	44,300.0	JT
Chloride	1.75		mg/l	0.500	0.168	1	-	02/19/13 01:13	44,300.0	JT
Sulfate	31.5		mg/l	1.00	0.229	1	-	02/19/13 01:13	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-08
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 11:15
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	14		A.P.C.U.	5.0	5.0	1	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	143.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	140		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:54	1,9010C/9012A	JO
Nitrogen, Ammonia	ND		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:07	44,350.1	AT
Nitrogen, Nitrate	0.17		mg/l	0.10	0.02	1	-	02/15/13 21:16	44,353.2	DB
Nitrogen, Total Kjeldahl	0.12	J	mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:52	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	24		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:39	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	1.29		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:29	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:47	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 01:49	44,300.0	JT
Chloride	1.20		mg/l	0.500	0.168	1	-	02/19/13 01:49	44,300.0	JT
Sulfate	15.7		mg/l	1.00	0.229	1	-	02/19/13 01:49	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-09
Client ID: MW-35
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 10:00
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	17		A.P.C.U.	5.0	5.0	1	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	151.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	170		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:55	1,9010C/9012A	JO
Nitrogen, Ammonia	0.561		mg/l	0.075	0.032	1	02/15/13 11:15	02/15/13 21:36	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	02/15/13 21:16	44,353.2	DB
Nitrogen, Total Kjeldahl	0.71		mg/l	0.30	0.06	1	02/15/13 09:50	02/15/13 21:14	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/15/13 16:16	02/15/13 19:27	44,410.4	TL
BOD, 5 day	2.5		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	2.62		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	0.02	J	mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:29	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:47	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 02:01	44,300.0	JT
Chloride	2.24		mg/l	0.500	0.168	1	-	02/19/13 02:01	44,300.0	JT
Sulfate	20.6		mg/l	1.00	0.229	1	-	02/19/13 02:01	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-10
Client ID: MW-34
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 14:00
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	70		A.P.C.U.	25	25.	5	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	163.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	180		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:56	1,9010C/9012A	JO
Nitrogen, Ammonia	0.265		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:08	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	02/15/13 21:17	44,353.2	DB
Nitrogen, Total Kjeldahl	0.48		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:52	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:39	44,410.4	TL
BOD, 5 day	3.7		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	2.91		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	0.01	J	mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:30	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:47	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 02:13	44,300.0	JT
Chloride	2.79		mg/l	0.500	0.168	1	-	02/19/13 02:13	44,300.0	JT
Sulfate	23.0		mg/l	1.00	0.229	1	-	02/19/13 02:13	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-11
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 14:45
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	22		A.P.C.U.	5.0	5.0	1	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	263.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	340		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:56	1,9010C/9012A	JO
Nitrogen, Ammonia	0.223		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:09	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	02/15/13 21:18	44,353.2	DB
Nitrogen, Total Kjeldahl	0.32		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:53	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:39	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	1.38		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:30	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:47	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	02/19/13 02:25	44,300.0	JT
Chloride	2.71		mg/l	0.500	0.168	1	-	02/19/13 02:25	44,300.0	JT
Sulfate	72.0		mg/l	1.00	0.229	1	-	02/19/13 02:25	44,300.0	JT

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

SAMPLE RESULTS

Lab ID: L1302654-12
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 02/14/13 16:55
Date Received: 02/14/13
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	16		A.P.C.U.	5.0	5.0	1	-	02/15/13 01:45	30,2120B	JT
Alkalinity, Total	363.		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	02/15/13 01:15	30,2520B	JT
Solids, Total Dissolved	1000		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:24	1,9010C/9012A	JO
Nitrogen, Ammonia	0.358		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:10	44,350.1	AT
Nitrogen, Nitrate	0.04	J	mg/l	0.10	0.02	1	-	02/15/13 21:20	44,353.2	DB
Nitrogen, Total Kjeldahl	0.48		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:54	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	24		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:39	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
Total Organic Carbon	2.07		mg/l	1.00	0.052	2	-	02/20/13 06:16	30,5310C	DW
Phenolics, Total	0.03		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:31	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:49	1,7196A	JT
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.108	J	mg/l	0.500	0.100	10	-	02/19/13 02:49	44,300.0	JT
Chloride	457.		mg/l	5.00	1.68	10	-	02/19/13 02:49	44,300.0	JT
Sulfate	59.7		mg/l	10.0	2.29	10	-	02/19/13 02:49	44,300.0	JT

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-12 Batch: WG590357-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.001	1	02/15/13 02:15	02/15/13 02:45	1,7196A	JT
General Chemistry - Westborough Lab for sample(s): 03-05,09 Batch: WG590408-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.02	1	02/15/13 09:50	02/15/13 20:53	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 03-05,09 Batch: WG590418-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.032	1	02/15/13 11:15	02/15/13 21:23	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 03-05,09 Batch: WG590492-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/15/13 16:16	02/15/13 19:24	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 02-12 Batch: WG590495-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	02/15/13 18:05	02/20/13 11:05	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 02-12 Batch: WG590509-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.02	1	-	02/15/13 20:51	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 02-12 Batch: WG590634-1										
Solids, Total Dissolved	ND		mg/l	10	4.4	1	-	02/18/13 13:35	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 02-07 Batch: WG590666-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 10:00	02/19/13 12:10	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 02,06-08,10-12 Batch: WG590721-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.06	1	02/18/13 14:49	02/19/13 21:37	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 02-11 Batch: WG590731-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 19:30	02/20/13 14:43	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 02-12 Batch: WG590744-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	02/18/13 09:42	30,2320B	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-12 Batch: WG590769-1										
Bromide	ND		mg/l	0.050	0.010	1	-	02/18/13 20:55	44,300.0	JT
Chloride	ND		mg/l	0.500	0.168	1	-	02/18/13 20:55	44,300.0	JT
Sulfate	ND		mg/l	1.00	0.229	1	-	02/18/13 20:55	44,300.0	JT
General Chemistry - Westborough Lab for sample(s): 02,06-08,10-12 Batch: WG590822-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.032	1	02/19/13 10:30	02/19/13 22:02	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 08-12 Batch: WG590829-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	02/19/13 15:45	02/19/13 17:28	4,420.1	MP

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 12 Batch: WG590858-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	02/19/13 13:02	02/20/13 13:20	1,9010C/9012A	JO
General Chemistry - Westborough Lab for sample(s): 02,06-08,10-12 Batch: WG590902-1										
Chemical Oxygen Demand	ND		mg/l	20	7.0	1	02/19/13 15:05	02/19/13 18:38	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 02-12 Batch: WG591014-1										
Total Organic Carbon	ND		mg/l	0.500	0.026	1	-	02/20/13 06:16	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-12 Batch: WG590357-2								
Chromium, Hexavalent	100		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-12 Batch: WG590361-1								
SALINITY	99		-			-		
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 Batch: WG590408-2								
Nitrogen, Total Kjeldahl	98		-		78-122	-		
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 Batch: WG590418-2								
Nitrogen, Ammonia	95		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 Batch: WG590492-2								
Chemical Oxygen Demand	95		-		95-105	-		
General Chemistry - Westborough Lab Associated sample(s): 02-12 Batch: WG590495-2								
BOD, 5 day	86		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-12 Batch: WG590509-2								
Nitrogen, Nitrate	92		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-12 Batch: WG590634-2					
Solids, Total Dissolved	95	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 02-07 Batch: WG590666-2					
Phenolics, Total	105	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 Batch: WG590721-2					
Nitrogen, Total Kjeldahl	95	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 02-11 Batch: WG590731-2 WG590731-3					
Cyanide, Total	104	108	80-120	4	20
General Chemistry - Westborough Lab Associated sample(s): 02-12 Batch: WG590744-2					
Alkalinity, Total	105	-	90-110	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-12 Batch: WG590769-2					
Bromide	106	-	90-110	-	
Chloride	103	-	90-110	-	
Sulfate	100	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 Batch: WG590822-2					
Nitrogen, Ammonia	96	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 08-12 Batch: WG590829-2					
Phenolics, Total	104	-	82-111	-	12
General Chemistry - Westborough Lab Associated sample(s): 12 Batch: WG590858-2 WG590858-3					
Cyanide, Total	110	110	80-120	0	20
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 Batch: WG590902-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 02-12 Batch: WG591014-2					
Total Organic Carbon	101	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590357-4 QC Sample: L1302654-12 Client ID: MW-22												
Chromium, Hexavalent	ND	0.1	0.100	100		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 QC Batch ID: WG590408-4 QC Sample: L1302654-09 Client ID: MW-35												
Nitrogen, Total Kjeldahl	0.71	8	7.8	89		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 QC Batch ID: WG590418-4 QC Sample: - Client ID: -												
Nitrogen, Ammonia	ND	4	3.86	92		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 QC Batch ID: WG590492-3 QC Sample: L1302640-01 Client ID: MS Sample												
Chemical Oxygen Demand	100	238	340	101		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590495-4 QC Sample: L1302654-03 Client ID: MW-36												
BOD, 5 day	ND	100	88	88		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590509-4 QC Sample: L1302616-02 Client ID: MS Sample												
Nitrogen, Nitrate	16.	4	20	100		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 02-07 QC Batch ID: WG590666-4 QC Sample: L1302624-01 Client ID: MS Sample												
Phenolics, Total	ND	0.8	0.80	100		-	-		77-124	-		12
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 QC Batch ID: WG590721-4 QC Sample: L1302746-02 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.28J	8	8.1	101		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 02-11 QC Batch ID: WG590731-4 WG590731-5 QC Sample: L1302654-03 Client ID: MW-36												
Cyanide, Total	ND	0.2	0.195	98		0.201	100		80-120	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590744-3 QC Sample: L1302654-12 Client ID: MW-22									
Alkalinity, Total	363.	100	456	93	-	-	86-116	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590769-4 QC Sample: L1302654-06 Client ID: MW-38									
Bromide	ND	0.4	0.341	85	-	-	77-119	-	20
Chloride	1.56	4	5.89	108	-	-	40-151	-	18
Sulfate	11.0	8	19.0	100	-	-	60-140	-	20
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 QC Batch ID: WG590822-4 QC Sample: L1302746-06 Client ID: MS Sample									
Nitrogen, Ammonia	0.553	4	4.26	93	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 08-12 QC Batch ID: WG590829-4 QC Sample: L1302746-02 Client ID: MS Sample									
Phenolics, Total	0.03	0.8	0.84	101	-	-	77-124	-	12
General Chemistry - Westborough Lab Associated sample(s): 12 QC Batch ID: WG590858-4 WG590858-5 QC Sample: L1302654-12 Client ID: MW-22									
Cyanide, Total	ND	0.2	0.198	99	0.207	104	80-120	4	20
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 QC Batch ID: WG590902-3 QC Sample: L1302701-01 Client ID: MS Sample									
Chemical Oxygen Demand	11.J	238	230	98	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG591014-4 QC Sample: L1302654-03 Client ID: MW-36									
Total Organic Carbon	1.74	8	9.88	102	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590357-3 QC Sample: L1302654-11 Client ID: MW-26						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590360-1 QC Sample: L1302654-12 Client ID: MW-22						
Color, Apparent	16.	16	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590361-2 QC Sample: L1302654-12 Client ID: MW-22						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 QC Batch ID: WG590408-3 QC Sample: L1302654-09 Client ID: MW-35						
Nitrogen, Total Kjeldahl	0.71	0.75	mg/l	5		24
General Chemistry - Westborough Lab Associated sample(s): 03-05,09 QC Batch ID: WG590492-4 QC Sample: L1302640-01 Client ID: DUP Sample						
Chemical Oxygen Demand	100	120	mg/l	18		20
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590495-3 QC Sample: L1302645-01 Client ID: DUP Sample						
BOD, 5 day	25.	28	mg/l	11		35
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590509-3 QC Sample: L1302616-02 Client ID: DUP Sample						
Nitrogen, Nitrate	16.	16	mg/l	0		6
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590634-3 QC Sample: L1302654-02 Client ID: MW-27						
Solids, Total Dissolved	600	640	mg/l	6		20
General Chemistry - Westborough Lab Associated sample(s): 02-07 QC Batch ID: WG590666-3 QC Sample: L1302654-06 Client ID: MW-38						
Phenolics, Total	0.01J	0.01J	mg/l	NC		12

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 QC Batch ID: WG590721-3 QC Sample: L1302746-02 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.28J	0.27J	mg/l	NC		24
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590744-4 QC Sample: L1302654-12 Client ID: MW-22						
Alkalinity, Total	363.	360.	mg CaCO3/L	1		10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG590769-3 QC Sample: L1302654-12 Client ID: MW-22						
Bromide	0.108J	ND	mg/l	NC		20
Chloride	457.	459.	mg/l	0		18
Sulfate	59.7	58.7	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 QC Batch ID: WG590822-3 QC Sample: L1302746-06 Client ID: DUP Sample						
Nitrogen, Ammonia	0.553	0.529	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 08-12 QC Batch ID: WG590829-3 QC Sample: L1302746-05 Client ID: DUP Sample						
Phenolics, Total	0.03	0.05	mg/l	**50**	Q	12
General Chemistry - Westborough Lab Associated sample(s): 02,06-08,10-12 QC Batch ID: WG590902-4 QC Sample: L1302701-01 Client ID: DUP Sample						
Chemical Oxygen Demand	11.J	8.3J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-12 QC Batch ID: WG591014-3 QC Sample: L1302654-02 Client ID: MW-27						
Total Organic Carbon	2.46	2.50	mg/l	2		20

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
D	Absent
B	Absent
C	Absent
E	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-01A	Vial HCl preserved	D	N/A	3	Y	Absent	NYTCL-8260(14)
L1302654-02A	Vial HCl preserved	D	N/A	3	Y	Absent	NYTCL-8260(14)
L1302654-02B	Vial HCl preserved	D	N/A	3	Y	Absent	NYTCL-8260(14)
L1302654-02C	Vial HCl preserved	D	N/A	3	Y	Absent	NYTCL-8260(14)
L1302654-02D	Vial H2SO4 preserved	D	N/A	3	Y	Absent	TOC-5310(28)
L1302654-02E	Vial H2SO4 preserved	D	N/A	3	Y	Absent	TOC-5310(28)
L1302654-02F	Plastic 1000ml unpreserved	D	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-02G	Plastic 1000ml unpreserved	D	7	3	Y	Absent	BOD-5210(2)
L1302654-02H	Plastic 250ml unpreserved	D	7	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-02I	Amber 250ml unpreserved	D	7	3	Y	Absent	SALINITY(28)
L1302654-02J	Amber 1000ml H2SO4 preserved	D	<2	3	Y	Absent	TPHENOL-420(28)
L1302654-02K	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-02L	Plastic 250ml NaOH preserved	D	>12	3	Y	Absent	TCN-9010(14)
L1302654-02M	Plastic 500ml HNO3 preserved	D	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-02N	Plastic 250ml unpreserved	D	N/A	3	Y	Absent	ALK-T-2320(14)
L1302654-02X	Plastic 250ml H2SO4 preserved sp	B	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-03A	Vial HCl preserved	D	N/A	3	Y	Absent	NYTCL-8260(14)
L1302654-03B	Vial HCl preserved	D	N/A	3	Y	Absent	NYTCL-8260(14)
L1302654-03C	Vial HCl preserved	D	N/A	3	Y	Absent	NYTCL-8260(14)
L1302654-03D	Vial H2SO4 preserved	D	N/A	3	Y	Absent	TOC-5310(28)
L1302654-03E	Vial H2SO4 preserved	D	N/A	3	Y	Absent	TOC-5310(28)
L1302654-03F	Plastic 1000ml unpreserved	D	7	3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-03G	Plastic 1000ml unpreserved	D	7	3	Y	Absent	BOD-5210(2)
L1302654-03H	Plastic 250ml unpreserved	D	7	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-03I	Amber 250ml unpreserved	D	7	3	Y	Absent	SALINITY(28)
L1302654-03J	Amber 1000ml H2SO4 preserved	D	<2	3	Y	Absent	TPHENOL-420(28)
L1302654-03K	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-03L	Plastic 250ml NaOH preserved	D	>12	3	Y	Absent	TCN-9010(14)
L1302654-03M	Plastic 500ml HNO3 preserved	D	<2	3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-03N	Plastic 250ml unpreserved	D	N/A	3	Y	Absent	ALK-T-2320(14)
L1302654-04A	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-04B	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-04C	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-04D	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1302654-04E	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1302654-04F	Plastic 1000ml unpreserved	A	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-04G	Plastic 1000ml unpreserved	A	7	4	Y	Absent	BOD-5210(2)
L1302654-04H	Plastic 250ml unpreserved	A	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-04I	Amber 250ml unpreserved	A	7	4	Y	Absent	SALINITY(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-04J	Amber 1000ml H2SO4 preserved	A	<2	4	Y	Absent	TPHENOL-420(28)
L1302654-04K	Plastic 500ml H2SO4 preserved	A	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-04L	Plastic 250ml NaOH preserved	A	>12	4	Y	Absent	TCN-9010(14)
L1302654-04M	Plastic 500ml HNO3 preserved	A	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-04N	Plastic 250ml unpreserved	A	N/A	4	Y	Absent	ALK-T-2320(14)
L1302654-05A	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-05B	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-05C	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-05D	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1302654-05E	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1302654-05F	Plastic 1000ml unpreserved	B	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-05G	Plastic 1000ml unpreserved	B	7	4	Y	Absent	BOD-5210(2)
L1302654-05H	Plastic 250ml unpreserved	B	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-05I	Amber 250ml unpreserved	B	7	4	Y	Absent	SALINITY(28)
L1302654-05J	Amber 1000ml H2SO4 preserved	B	<2	4	Y	Absent	TPHENOL-420(28)
L1302654-05K	Plastic 500ml H2SO4 preserved	B	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-05L	Plastic 250ml NaOH preserved	B	>12	4	Y	Absent	TCN-9010(14)
L1302654-05M	Plastic 500ml HNO3 preserved	B	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-05N	Plastic 250ml unpreserved	B	N/A	4	Y	Absent	ALK-T-2320(14)
L1302654-05O	Plastic 500ml unpreserved	B	7	4	Y	Absent	-

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-05X	Plastic 500ml HNO3 preserved spl	B	<2	4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1302654-06A	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-06B	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-06C	Vial HCl preserved	B	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-06D	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1302654-06E	Vial H2SO4 preserved	B	N/A	4	Y	Absent	TOC-5310(28)
L1302654-06F	Plastic 1000ml unpreserved	B	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-06G	Plastic 1000ml unpreserved	B	7	4	Y	Absent	BOD-5210(2)
L1302654-06H	Plastic 250ml unpreserved	B	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-06I	Amber 250ml unpreserved	B	7	4	Y	Absent	SALINITY(28)
L1302654-06J	Amber 1000ml H2SO4 preserved	B	<2	4	Y	Absent	TPHENOL-420(28)
L1302654-06K	Plastic 500ml H2SO4 preserved	B	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-06L	Plastic 250ml NaOH preserved	B	>12	4	Y	Absent	TCN-9010(14)
L1302654-06M	Plastic 500ml HNO3 preserved	B	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-06N	Plastic 250ml unpreserved	B	N/A	4	Y	Absent	ALK-T-2320(14)
L1302654-06X	Plastic 250ml H2SO4 preserved sp	B	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-07A	Vial HCl preserved	C	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-07B	Vial HCl preserved	C	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-07C	Vial HCl preserved	C	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-07D	Vial H2SO4 preserved	C	N/A	4	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-07E	Vial H2SO4 preserved	C	N/A	4	Y	Absent	TOC-5310(28)
L1302654-07F	Plastic 1000ml unpreserved	C	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-07G	Plastic 1000ml unpreserved	C	7	4	Y	Absent	BOD-5210(2)
L1302654-07H	Plastic 250ml unpreserved	C	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-07I	Amber 250ml unpreserved	C	7	4	Y	Absent	SALINITY(28)
L1302654-07J	Amber 1000ml H2SO4 preserved	C	<2	4	Y	Absent	TPHENOL-420(28)
L1302654-07K	Plastic 500ml H2SO4 preserved	C	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-07L	Plastic 250ml NaOH preserved	C	>12	4	Y	Absent	TCN-9010(14)
L1302654-07M	Plastic 500ml HNO3 preserved	C	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-07N	Plastic 250ml unpreserved	C	N/A	4	Y	Absent	ALK-T-2320(14)
L1302654-07O	Plastic 500ml unpreserved	C	7	4	Y	Absent	-
L1302654-07X	Plastic 500ml HNO3 preserved spl	C	<2	4	Y	Absent	B-SI(180),CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1302654-07Y	Plastic 250ml H2SO4 preserved sp	C	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-08A	Vial HCl preserved	C	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-08B	Vial HCl preserved	C	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-08C	Vial HCl preserved	C	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-08D	Vial H2SO4 preserved	C	N/A	4	Y	Absent	TOC-5310(28)
L1302654-08E	Vial H2SO4 preserved	C	N/A	4	Y	Absent	TOC-5310(28)
L1302654-08F	Plastic 1000ml unpreserved	C	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-08G	Plastic 1000ml unpreserved	C	7	4	Y	Absent	BOD-5210(2)
L1302654-08H	Plastic 250ml unpreserved	C	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-08I	Amber 250ml unpreserved	C	7	4	Y	Absent	SALINITY(28)
L1302654-08J	Amber 1000ml H2SO4 preserved	C	<2	4	Y	Absent	TPHENOL-420(28)
L1302654-08K	Plastic 500ml H2SO4 preserved	C	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-08L	Plastic 250ml NaOH preserved	C	>12	4	Y	Absent	TCN-9010(14)
L1302654-08M	Plastic 500ml HNO3 preserved	C	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-08N	Plastic 250ml unpreserved	C	N/A	4	Y	Absent	ALK-T-2320(14)
L1302654-08X	Plastic 250ml H2SO4 preserved sp	C	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-09A	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-09B	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-09C	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-09D	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1302654-09E	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1302654-09F	Plastic 1000ml unpreserved	A	7	4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-09G	Plastic 1000ml unpreserved	A	7	4	Y	Absent	BOD-5210(2)
L1302654-09H	Plastic 250ml unpreserved	A	7	4	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-09I	Amber 250ml unpreserved	A	7	4	Y	Absent	SALINITY(28)
L1302654-09J	Amber 1000ml H2SO4 preserved	A	<2	4	Y	Absent	TPHENOL-420(28)
L1302654-09K	Plastic 500ml H2SO4 preserved	A	<2	4	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-09L	Plastic 250ml NaOH preserved	A	>12	4	Y	Absent	TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-09M	Plastic 500ml HNO3 preserved	A	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-09N	Plastic 250ml unpreserved	A	N/A	4	Y	Absent	ALK-T-2320(14)
L1302654-10A	Vial HCl preserved	E	N/A	2	Y	Absent	NYTCL-8260(14)
L1302654-10B	Vial HCl preserved	E	N/A	2	Y	Absent	NYTCL-8260(14)
L1302654-10C	Vial HCl preserved	E	N/A	2	Y	Absent	NYTCL-8260(14)
L1302654-10D	Vial H2SO4 preserved	E	N/A	2	Y	Absent	TOC-5310(28)
L1302654-10E	Vial H2SO4 preserved	E	N/A	2	Y	Absent	TOC-5310(28)
L1302654-10F	Plastic 1000ml unpreserved	E	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-10G	Plastic 1000ml unpreserved	E	7	2	Y	Absent	BOD-5210(2)
L1302654-10H	Plastic 250ml unpreserved	E	7	2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-10I	Amber 250ml unpreserved	E	7	2	Y	Absent	SALINITY(28)
L1302654-10J	Amber 1000ml H2SO4 preserved	E	<2	2	Y	Absent	TPHENOL-420(28)
L1302654-10K	Plastic 500ml H2SO4 preserved	E	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-10L	Plastic 250ml NaOH preserved	E	>12	2	Y	Absent	TCN-9010(14)
L1302654-10M	Plastic 500ml HNO3 preserved	E	<2	2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-10N	Plastic 250ml unpreserved	E	N/A	2	Y	Absent	ALK-T-2320(14)
L1302654-10X	Plastic 250ml H2SO4 preserved sp	E	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-11A	Vial HCl preserved	E	N/A	2	Y	Absent	NYTCL-8260(14)
L1302654-11B	Vial HCl preserved	E	N/A	2	Y	Absent	NYTCL-8260(14)
L1302654-11C	Vial HCl preserved	E	N/A	2	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-11D	Vial H2SO4 preserved	E	N/A	2	Y	Absent	TOC-5310(28)
L1302654-11E	Vial H2SO4 preserved	E	N/A	2	Y	Absent	TOC-5310(28)
L1302654-11F	Plastic 1000ml unpreserved	E	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-11G	Plastic 1000ml unpreserved	E	7	2	Y	Absent	BOD-5210(2)
L1302654-11H	Plastic 250ml unpreserved	E	7	2	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-11I	Amber 250ml unpreserved	E	7	2	Y	Absent	SALINITY(28)
L1302654-11J	Amber 1000ml H2SO4 preserved	E	<2	2	Y	Absent	TPHENOL-420(28)
L1302654-11K	Plastic 500ml H2SO4 preserved	E	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-11L	Plastic 250ml NaOH preserved	E	>12	2	Y	Absent	TCN-9010(14)
L1302654-11M	Plastic 500ml HNO3 preserved	E	<2	2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-11N	Plastic 250ml unpreserved	E	N/A	2	Y	Absent	ALK-T-2320(14)
L1302654-11X	Plastic 250ml H2SO4 preserved sp	E	<2	2	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-12A	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-12B	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-12C	Vial HCl preserved	A	N/A	4	Y	Absent	NYTCL-8260(14)
L1302654-12D	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1302654-12E	Vial H2SO4 preserved	A	N/A	4	Y	Absent	TOC-5310(28)
L1302654-12F	Plastic 1000ml unpreserved	E	7	2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1302654-12G	Plastic 1000ml unpreserved	E	7	2	Y	Absent	BOD-5210(2)
L1302654-12H	Plastic 250ml unpreserved	D	7	3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1302654-12I	Amber 250ml unpreserved	D	7	3	Y	Absent	SALINITY(28)
L1302654-12J	Amber 1000ml H2SO4 preserved	E	<2	2	Y	Absent	TPHENOL-420(28)
L1302654-12K	Plastic 500ml H2SO4 preserved	D	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)
L1302654-12L	Plastic 250ml NaOH preserved	D	>12	3	Y	Absent	TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT
Project Number: 08.8696

Lab Number: L1302654
Report Date: 03/07/13

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1302654-12M	Plastic 500ml HNO3 preserved	C	<2	4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180),HARDT(180)
L1302654-12N	Plastic 250ml unpreserved	D	N/A	3	Y	Absent	ALK-T-2320(14)
L1302654-12X	Plastic 250ml H2SO4 preserved sp	D	<2	3	Y	Absent	TKN-351(28),COD-410(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name:	US SALT	**Lab Number:**	L1302654
Project Number:	08.8696	**Report Date:**	03/07/13

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1302654

Project Number: 08.8696 **Report Date:** 03/07/13

Data Qualifiers

due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with "J" Qualifiers

Project Name: US SALT **Lab Number:** L1302654
Project Number: 08.8696 **Report Date:** 03/07/13

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certificate/Approval Program Summary

Last revised December 19, 2012 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2130B, 2320B, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, SM2320B, 2510B, 2540C, 2540D, 426C, 4500Cl-D, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NO3-F, 4500P-B, 4500P-E, 5210B, 5220D, 5310C, 9010B, 9040B, 9030B, 7470A, 7196A, 2340B, EPA 200.7, 6010B, 6010C, 200.8, 6020, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8330, 8151A, 8260B, 8260C, 8270C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9030B, 9040B, 9045C, 6010B, 6010C, 6020, 6020A, 7471A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260B, 8270C, 8270D, 8330, 8151A, 8081A, 8081B, 8082, 8082A, 3540C, 3546, 3580A, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; ColilertQT SM9223B; MF-SM9222D.)

*Non-Potable Water (*Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables), 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM510ABC, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM2520B, SM15 426C, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6010C, 6020, 6020A, EPA 7196A, SM3500Cr-D, EPA 245.1, 7470A, SM2120B, LACHAT 10-204-00-1-A, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015, 9010C, 9030B. Organic Parameters: EPA 624, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 625, 608, 8081A, 8081B, 8151A, 8330, 8082, 8082A, EPA 3510C, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010B, 6010C, 7196A, 7471A, 7471B, 9012B, 9014, 9065, 9050A, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8015B, 8015C, 8081A, 8081B, 8151A, 8330, 8082 8082A, 3540C,

3546, 3580A, 5030B, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P,BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 $S2^{-}$D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE, 245.2, 2320B, 4500F-C, 4500NO3-F, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 9010B, 9040B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9030B, 9010B, 9012A, 9014 9040B, 9045C, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 355B0, 3580A, 3630C, 6020A, 8260B, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6010C, 6020, 6020A, 245.1, 245.2, 7470A, 9040B, 9010B, 180.1. 300.0, 332.0, 6860, 353.2, 410.4, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500NO3-F, 4500CL-D, 5220D, 5310C, 2130B, 2320B, 2540C, 3005A, 3015, 9010B, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330A, 8082, 8082A, 8081A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 6010C, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9010B, 9012A, 9040B, 9045C, 3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8260B, 8260C, 8270C,

8270D, 8270C-SIM, 8270D-SIM, 8330A/B-prep, 8082, 8082A, 8081A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 8260B: Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline, 4-Methylphenol. Total Phosphorus in a soil matrix, Chloride in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/14/13

ALPHA Job #: L1302654

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: K.Moline@ctmale.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 2/21/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NYS DEC ASP Cat B	

Other Project Specific Requirements/Comments/Detection Limits:
NYS DEC Part 360 Baseline Parameters plus Salinity

SAMPLE HANDLING
Filtration Dissolved Metals
☐ Done
☐ Not needed
☒ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Cl, Br, SO4, TDS, NO3	BOD	Heterotrophic, Color	Alkalinity	Total Recoverable Phenolics	TOC	Salinity	Total Cyanide	COD, NH3, TKN	VOC (Baseline list)	Dissolved Metals	Sample Specific Comments	TOTAL # BOTTLES
02654.1	Transport blank	—	—	—	—											X			1
2	MW-27	2/14/13	0750	GW	SD	X	X	X	X	X	X	X	X	X	X	X			14
3	MW-36		0835		SD	X	X	X	X	X	X	X	X	X	X	X			14
4	MW-37		0920		SD	X	X	X	X	X	X	X	X	X	X	X			14
5	MW-28		1230		SD	X	X	X	X	X	X	X	X	X	X	X	X		15
6	MW-38		1200		SD	X	X	X	X	X	X	X	X	X	X	X			14
7	MW-29		1040		SD	X	X	X	X	X	X	X	X	X	X	X	X		15
8	MW-39		1115		SD	X	X	X	X	X	X	X	X	X	X	X			14
9	MW-35		1000		SD	X	X	X	X	X	X	X	X	X	X	X			14
10	MW-34	2/14/13	1400	GW	SD	X	X	X	X	X	X	X	X	X	X	X			14
					Container Type	P	P	D	P	P	A	V	A	P	P	V			
					Preservative	C	A	A	A	A	D	D	A	E	D	B			

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/14/13 1740	Kyle Cunghram	2/14/13 1747
Kyle Cunghram	2/14/13 0040	[signature]	2/15/13 0040

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 2/14/13

ALPHA Job #: L1302654

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANSFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: K. Moline @ ctmale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: OS Salt
Project Location: Reading, NY
Project #: 08-8696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 2/21/13 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
NYSDEC ASP Cat. B	

Other Project Specific Requirements/Comments/Detection Limits:

NYS DEC Part 360 ~~Table~~ Baseline Parameters ~~Pb~~ plus Salinity

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Total Hardness, Total Metals	Cl, Br, SO4, TDS, NO3	BOD	Hexachrome, Color	Alkalinity	Total Recoverable Phenolics	TOC	Salinity	Total Cyanide	COD, NH3, TKN	VOC (Baseline list)		Sample Specific Comments	TOTAL # BOTTLES
02654.11	MW-26	2/14/13	1445	GW	JD	X	X	X	X	X	X	X	X	X	X	X			14
12	MW-22	2/14/13	1655	GW	JD	X	X	X	X	X	X	X	X	X	X	X			14
Container Type						P	P	D	P	P	A	V	A	P	P	V			
Preservative						C	A	A	A	A	D	D	A	E	D	B			

ANALYSIS

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
Kyle Cunningham	2/14/13 1740	Kyle Cunningham	2/14/13 1742
	2/15/13 0010		2/15/13 0010

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1407309
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	U.S. SALT BRINE POND
Project Number:	08.8696
Report Date:	04/22/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: U.S. SALT BRINE POND
Project Number: 08.8696

Lab Number: L1407309
Report Date: 04/22/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1407309-01	QC-1	READING, NY	04/08/14 14:40

Project Name: U.S. SALT BRINE POND **Lab Number:** L1407309
Project Number: 08.8696 **Report Date:** 04/22/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: U.S. SALT BRINE POND **Lab Number:** L1407309
Project Number: 08.8696 **Report Date:** 04/22/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 04/22/14

ORGANICS

VOLATILES

Project Name: U.S. SALT BRINE POND **Lab Number:** L1407309

Project Number: 08.8696 **Report Date:** 04/22/14

SAMPLE RESULTS

Lab ID:	L1407309-01	Date Collected:	04/08/14 14:40
Client ID:	QC-1	Date Received:	04/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/18/14 15:21		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	25		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	3.6		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: U.S. SALT BRINE POND **Lab Number:** L1407309

Project Number: 08.8696 **Report Date:** 04/22/14

SAMPLE RESULTS

Lab ID: L1407309-01 Date Collected: 04/08/14 14:40

Client ID: QC-1 Date Received: 04/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.0	J	ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	90		70-130

Project Name: U.S. SALT BRINE POND **Lab Number:** L1407309

Project Number: 08.8696 **Report Date:** 04/22/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/18/14 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG683490-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: U.S. SALT BRINE POND **Lab Number:** L1407309

Project Number: 08.8696 **Report Date:** 04/22/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/18/14 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG683490-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: U.S. SALT BRINE POND

Project Number: 08.8696

Lab Number: L1407309

Report Date: 04/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG683490-1 WG683490-2								
Methylene chloride	99		97		70-130	2		20
1,1-Dichloroethane	103		100		70-130	3		20
Chloroform	103		102		70-130	1		20
2-Chloroethylvinyl ether	86		88		70-130	2		20
Carbon tetrachloride	91		89		63-132	2		20
1,2-Dichloropropane	101		101		70-130	0		20
Dibromochloromethane	81		84		63-130	4		20
1,1,2-Trichloroethane	91		96		70-130	5		20
Tetrachloroethene	94		89		70-130	5		20
Chlorobenzene	94		91		75-130	3		20
Trichlorofluoromethane	92		87		62-150	6		20
1,2-Dichloroethane	97		98		70-130	1		20
1,1,1-Trichloroethane	96		95		67-130	1		20
Bromodichloromethane	94		94		67-130	0		20
trans-1,3-Dichloropropene	80		83		70-130	4		20
cis-1,3-Dichloropropene	89		91		70-130	2		20
1,1-Dichloropropene	105		100		70-130	5		20
Bromoform	72		75		54-136	4		20
1,1,2,2-Tetrachloroethane	88		89		67-130	1		20
Benzene	104		102		70-130	2		20
Toluene	97		93		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: U.S. SALT BRINE POND
Project Number: 08.8696

Lab Number: L1407309
Report Date: 04/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG683490-1 WG683490-2								
Ethylbenzene	97		94		70-130	3		20
Chloromethane	108		98		64-130	10		20
Bromomethane	76		71		39-139	7		20
Vinyl chloride	80		72		55-140	11		20
Chloroethane	107		98		55-138	9		20
1,1-Dichloroethene	98		92		61-145	6		20
trans-1,2-Dichloroethene	105		102		70-130	3		20
Trichloroethene	100		97		70-130	3		20
1,2-Dichlorobenzene	90		87		70-130	3		20
1,3-Dichlorobenzene	90		86		70-130	5		20
1,4-Dichlorobenzene	90		87		70-130	3		20
Methyl tert butyl ether	94		98		63-130	4		20
p/m-Xylene	94		92		70-130	2		20
o-Xylene	94		93		70-130	1		20
cis-1,2-Dichloroethene	101		101		70-130	0		20
Dibromomethane	96		98		70-130	2		20
1,2,3-Trichloropropane	85		88		64-130	3		20
Acrylonitrile	94		96		70-130	2		20
Isopropyl Ether	103		99		70-130	4		20
tert-Butyl Alcohol	76		89		70-130	16		20
Styrene	97		96		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: U.S. SALT BRINE POND

Project Number: 08.8696

Lab Number: L1407309

Report Date: 04/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG683490-1 WG683490-2								
Dichlorodifluoromethane	103		94		36-147	9		20
Acetone	99		103		58-148	4		20
Carbon disulfide	92		90		51-130	2		20
2-Butanone	90		92		63-138	2		20
Vinyl acetate	91		99		70-130	8		20
4-Methyl-2-pentanone	77		83		59-130	8		20
2-Hexanone	79		81		57-130	3		20
Bromochloromethane	94		96		70-130	2		20
2,2-Dichloropropane	98		101		63-133	3		20
1,2-Dibromoethane	88		89		70-130	1		20
1,3-Dichloropropane	91		94		70-130	3		20
1,1,1,2-Tetrachloroethane	84		82		64-130	2		20
Bromobenzene	87		84		70-130	4		20
n-Butylbenzene	96		91		53-136	5		20
sec-Butylbenzene	97		92		70-130	5		20
tert-Butylbenzene	94		89		70-130	5		20
o-Chlorotoluene	94		88		70-130	7		20
p-Chlorotoluene	94		90		70-130	4		20
1,2-Dibromo-3-chloropropane	73		73		41-144	0		20
Hexachlorobutadiene	84		81		63-130	4		20
Isopropylbenzene	92		87		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: U.S. SALT BRINE POND
Project Number: 08.8696
Lab Number: L1407309
Report Date: 04/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG683490-1 WG683490-2								
p-Isopropyltoluene	94		90		70-130	4		20
Naphthalene	78		84		70-130	7		20
n-Propylbenzene	96		91		69-130	5		20
1,2,3-Trichlorobenzene	77		84		70-130	9		20
1,2,4-Trichlorobenzene	79		82		70-130	4		20
1,3,5-Trimethylbenzene	94		91		64-130	3		20
1,2,4-Trimethylbenzene	94		91		70-130	3		20
Methyl Acetate	88		98		70-130	11		20
Ethyl Acetate	91		98		70-130	7		20
Cyclohexane	104		100		70-130	4		20
Ethyl-Tert-Butyl-Ether	93		97		70-130	4		20
Tertiary-Amyl Methyl Ether	90		96		66-130	6		20
1,4-Dioxane	87		98		56-162	12		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	105		103		70-130	2		20
1,4-Diethylbenzene	93		90		70-130	3		20
4-Ethyltoluene	113		107		70-130	5		20
1,2,4,5-Tetramethylbenzene	87		85		70-130	2		20
Ethyl ether	97		101		59-134	4		20
trans-1,4-Dichloro-2-butene	77		79		70-130	3		20
Methyl cyclohexane	107		102		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: U.S. SALT BRINE POND
Project Number: 08.8696
Lab Number: L1407309
Report Date: 04/22/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG683490-1 WG683490-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	97		95		70-130
Dibromofluoromethane	98		99		70-130

Project Name: U.S. SALT BRINE POND
Project Number: 08.8696

Lab Number: L1407309
Report Date: 04/22/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1407309-01A	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1407309-01B	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)
L1407309-01C	Vial HCl preserved	A	N/A	3.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	U.S. SALT BRINE POND	**Lab Number:**	L1407309
Project Number:	08.8696	**Report Date:**	04/22/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	U.S. SALT BRINE POND	**Lab Number:**	L1407309
Project Number:	08.8696	**Report Date:**	04/22/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: U.S. SALT BRINE POND **Lab Number:** L1407309
Project Number: 08.8696 **Report Date:** 04/22/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page ___ of ___

Date Rec'd in Lab: 4/8/14

ALPHA Job #: L1407309

Client Information
Client: C.T. Male Assoc.
Address: 50 Century Hill Dr. Latham, NY 12110
Phone: 518-786-7400
Fax:
Email: s.bieberectmale.com

Project Information
Project Name: U.S. SALT Brine Pond
Project Location: Reading, NY
Project #: 08.8696
(Use Project name as Project #) ☐
Project Manager: Kirk Malone
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days: 4/22/14

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS: VOCs 8260

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs 8260	Sample Specific Comments	Total Bottle
972041	QC-1	4/8/14	1440	Aqueous	SB	✓		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

	VOCs 8260
Container Type	V 40ml
Preservative	Tcl + HCl (B)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	4/8/14 @1550	[signature]	4-8-14 1550
[signature]	4-8-14 2120	[signature]	4-8-14 2120
[signature]	4-8-14 23:59	[signature]	4/8/14 23:59

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1405988
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT BRINE PONDS
Project Number:	08.8696
Report Date:	04/04/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1405988-01	MW-49	T/O READING NY	03/21/14 09:05
L1405988-02	TRIP BLANK	T/O READING NY	03/21/14 00:00

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988
Project Number: 08.8696 **Report Date:** 04/04/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405988
Project Number:	08.8696	**Report Date:**	04/04/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1405988-01 has elevated detection limits for lead, manganese, sodium and thallium due to the dilution required by matrix interferences encountered during analysis.

The WG679611-4 MS recovery, performed on L1405988-01, is outside the acceptance criteria for potassium (31%). A post digestion spike was performed and was within acceptance criteria.

The WG679611-4 MS recovery for sodium (20%), performed on L1405988-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG679614-4 MS recoveries for calcium (0%) and hardness (0%), performed on L1405988-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG679611-3 Laboratory Duplicate RPDs, performed on L1405988-01, are outside the acceptance criteria for antimony (84%) and arsenic (23%). The elevated RPDs have been attributed to the non-homogeneous nature of the samples utilized for the laboratory duplicate.

Bromide

L1405988-01 has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative

Date: 04/04/14

ORGANICS

VOLATILES

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

SAMPLE RESULTS

Lab ID:	L1405988-01	Date Collected:	03/21/14 09:05
Client ID:	MW-49	Date Received:	03/21/14
Sample Location:	T/O READING NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 20:46		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

SAMPLE RESULTS

Lab ID: L1405988-01 Date Collected: 03/21/14 09:05

Client ID: MW-49 Date Received: 03/21/14

Sample Location: T/O READING NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

SAMPLE RESULTS

Lab ID:	L1405988-02	Date Collected:	03/21/14 00:00
Client ID:	TRIP BLANK	Date Received:	03/21/14
Sample Location:	T/O READING NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 20:14		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

SAMPLE RESULTS

Lab ID: L1405988-02 Date Collected: 03/21/14 00:00

Client ID: TRIP BLANK Date Received: 03/21/14

Sample Location: T/O READING NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/02/14 15:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG679801-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/02/14 15:55
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG679801-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG679801-1 WG679801-2								
Methylene chloride	93		95		70-130	2		20
1,1-Dichloroethane	93		94		70-130	1		20
Chloroform	93		93		70-130	0		20
2-Chloroethylvinyl ether	85		90		70-130	6		20
Carbon tetrachloride	84		84		63-132	0		20
1,2-Dichloropropane	91		91		70-130	0		20
Dibromochloromethane	89		91		63-130	2		20
1,1,2-Trichloroethane	93		96		70-130	3		20
Tetrachloroethene	90		91		70-130	1		20
Chlorobenzene	93		93		75-130	0		20
Trichlorofluoromethane	86		85		62-150	1		20
1,2-Dichloroethane	94		96		70-130	2		20
1,1,1-Trichloroethane	90		90		67-130	0		20
Bromodichloromethane	90		91		67-130	1		20
trans-1,3-Dichloropropene	92		95		70-130	3		20
cis-1,3-Dichloropropene	90		91		70-130	1		20
1,1-Dichloropropene	82		80		70-130	2		20
Bromoform	78		79		54-136	1		20
1,1,2,2-Tetrachloroethane	93		93		67-130	0		20
Benzene	90		90		70-130	0		20
Toluene	93		93		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG679801-1 WG679801-2								
Ethylbenzene	95		94		70-130	1		20
Chloromethane	96		94		64-130	2		20
Bromomethane	106		106		39-139	0		20
Vinyl chloride	92		92		55-140	0		20
Chloroethane	90		92		55-138	2		20
1,1-Dichloroethene	95		93		61-145	2		20
trans-1,2-Dichloroethene	92		93		70-130	1		20
Trichloroethene	90		90		70-130	0		20
1,2-Dichlorobenzene	97		96		70-130	1		20
1,3-Dichlorobenzene	97		95		70-130	2		20
1,4-Dichlorobenzene	93		93		70-130	0		20
Methyl tert butyl ether	102		106		63-130	4		20
p/m-Xylene	97		96		70-130	1		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	91		92		70-130	1		20
Dibromomethane	92		94		70-130	2		20
1,2,3-Trichloropropane	103		104		64-130	1		20
Acrylonitrile	95		99		70-130	4		20
Isopropyl Ether	94		96		70-130	2		20
tert-Butyl Alcohol	96		104		70-130	8		20
Styrene	102		102		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG679801-1 WG679801-2								
Dichlorodifluoromethane	98		96		36-147	2		20
Acetone	62		67		58-148	8		20
Carbon disulfide	97		95		51-130	2		20
2-Butanone	87		90		63-138	3		20
Vinyl acetate	96		98		70-130	2		20
4-Methyl-2-pentanone	84		88		59-130	5		20
2-Hexanone	90		92		57-130	2		20
Acrolein	89		94		40-160	5		20
Bromochloromethane	91		91		70-130	0		20
2,2-Dichloropropane	96		94		63-133	2		20
1,2-Dibromoethane	93		96		70-130	3		20
1,3-Dichloropropane	95		97		70-130	2		20
1,1,1,2-Tetrachloroethane	91		92		64-130	1		20
Bromobenzene	97		96		70-130	1		20
n-Butylbenzene	76		83		53-136	9		20
sec-Butylbenzene	92		93		70-130	1		20
tert-Butylbenzene	95		96		70-130	1		20
o-Chlorotoluene	102		97		70-130	5		20
p-Chlorotoluene	102		100		70-130	2		20
1,2-Dibromo-3-chloropropane	90		94		41-144	4		20
Hexachlorobutadiene	94		92		63-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG679801-1 WG679801-2								
Isopropylbenzene	100		98		70-130	2		20
p-Isopropyltoluene	82		86		70-130	5		20
Naphthalene	**64**	Q	**68**	Q	70-130	6		20
n-Propylbenzene	98		98		69-130	0		20
1,2,3-Trichlorobenzene	74		80		70-130	8		20
1,2,4-Trichlorobenzene	**69**	Q	75		70-130	8		20
1,3,5-Trimethylbenzene	95		95		64-130	0		20
1,2,4-Trimethylbenzene	88		93		70-130	6		20
Methyl Acetate	97		98		70-130	1		20
Ethyl Acetate	94		97		70-130	3		20
Cyclohexane	89		89		70-130	0		20
Ethyl-Tert-Butyl-Ether	95		96		70-130	1		20
Tertiary-Amyl Methyl Ether	92		94		66-130	2		20
1,4-Dioxane	102		108		56-162	6		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	84		81		70-130	4		20
1,4-Diethylbenzene	76		82		70-130	8		20
4-Ethyltoluene	96		97		70-130	1		20
1,2,4,5-Tetramethylbenzene	71		74		70-130	4		20
Ethyl ether	113		115		59-134	2		20
trans-1,4-Dichloro-2-butene	94		94		70-130	0		20
Iodomethane	108		109		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG679801-1 WG679801-2								
Methyl cyclohexane	94		93		70-130	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	108		105		70-130
Dibromofluoromethane	97		97		70-130

METALS

Project Name: US SALT BRINE PONDS
Lab Number: L1405988
Project Number: 08.8696
Report Date: 04/04/14

SAMPLE RESULTS

Lab ID: L1405988-01
Client ID: MW-49
Sample Location: T/O READING NY
Matrix: Water

Date Collected: 03/21/14 09:05
Date Received: 03/21/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0231		mg/l	0.0100	0.00200	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Antimony, Total	0.01319		mg/l	0.00100	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00067		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Barium, Total	0.4605		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Boron, Total	0.233		mg/l	0.0300	0.0070	1	04/02/14 09:34	04/02/14 14:27	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00010	J	mg/l	0.00020	0.00005	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Calcium, Total	410		mg/l	0.10	0.030	1	04/02/14 09:34	04/02/14 14:27	EPA 3005A	1,6010C	TT
Chromium, Total	0.00030	J	mg/l	0.00100	0.00020	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00057		mg/l	0.00020	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Copper, Total	0.00030	J	mg/l	0.00100	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Iron, Total	0.253		mg/l	0.0500	0.0130	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.02000	0.00400	20	04/02/14 09:34	04/02/14 15:22	EPA 3005A	1,6020A	KL
Magnesium, Total	140		mg/l	0.10	0.010	1	04/02/14 09:34	04/02/14 14:27	EPA 3005A	1,6010C	TT
Manganese, Total	0.8568		mg/l	0.01000	0.00200	20	04/02/14 09:34	04/02/14 15:22	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/26/14 13:16	03/26/14 17:10	EPA 7470A	1,7470A	AK
Nickel, Total	0.00059		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Potassium, Total	7.86		mg/l	0.100	0.0270	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Sodium, Total	284.		mg/l	2.00	0.300	20	04/02/14 09:34	04/03/14 12:05	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.01000	0.00060	20	04/02/14 09:34	04/02/14 15:22	EPA 3005A	1,6020A	KL
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Zinc, Total	0.00181	J	mg/l	0.01000	0.00120	1	04/02/14 09:34	04/02/14 15:26	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1600		mg/l	0.66	NA	1	04/02/14 09:34	04/02/14 14:27	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG678086-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/26/14 13:16	03/26/14 16:39	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG679611-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Antimony, Total	ND		mg/l	0.00100	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Arsenic, Total	0.00011	J	mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Barium, Total	ND		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Chromium, Total	ND		mg/l	0.00100	0.00020	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Cobalt, Total	ND		mg/l	0.00020	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Copper, Total	ND		mg/l	0.00100	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Iron, Total	ND		mg/l	0.0500	0.0130	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Manganese, Total	ND		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Nickel, Total	ND		mg/l	0.00050	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0270	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Sodium, Total	0.0787	J	mg/l	0.100	0.0150	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL
Zinc, Total	ND		mg/l	0.01000	0.00120	1	04/02/14 09:34	04/02/14 15:01	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01 Batch: WG679614-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	04/02/14 09:34	04/02/14 14:19	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	04/02/14 09:34	04/02/14 14:19	1,6010C	TT
Magnesium, Total	ND		mg/l	0.10	0.010	1	04/02/14 09:34	04/02/14 14:19	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01 Batch: WG679614-1										
Hardness	ND		mg/l	0.66	NA	1	04/02/14 09:34	04/02/14 14:19	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT BRINE PONDS

Project Number: 08.8696

Lab Number: L1405988

Report Date: 04/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG678086-2								
Mercury, Total	97		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG679611-2					
Aluminum, Total	94	-	80-120	-	
Antimony, Total	90	-	80-120	-	
Arsenic, Total	99	-	80-120	-	
Barium, Total	92	-	80-120	-	
Beryllium, Total	94	-	80-120	-	
Cadmium, Total	104	-	80-120	-	
Chromium, Total	90	-	80-120	-	
Cobalt, Total	94	-	80-120	-	
Copper, Total	97	-	80-120	-	
Iron, Total	89	-	80-120	-	
Lead, Total	97	-	80-120	-	
Manganese, Total	93	-	80-120	-	
Nickel, Total	95	-	80-120	-	
Potassium, Total	95	-	80-120	-	
Selenium, Total	108	-	80-120	-	
Silver, Total	93	-	80-120	-	
Sodium, Total	101	-	80-120	-	
Thallium, Total	92	-	80-120	-	
Vanadium, Total	87	-	80-120	-	
Zinc, Total	103	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 Batch: WG679614-2					
Boron, Total	97	-	80-120	-	
Calcium, Total	98	-	80-120	-	
Magnesium, Total	95	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01 Batch: WG679614-2					
Hardness	97	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678086-3 WG678086-4 QC Sample: L1405862-05 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00538	108		0.00534	107		75-125	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679611-4 QC Sample: L1405988-01 Client ID: MW-49										
Aluminum, Total	0.0231	2	1.92	96		-	-	75-125	-	20
Antimony, Total	0.01319	0.5	0.5400	106		-	-	75-125	-	20
Arsenic, Total	0.00067	0.12	0.1320	110		-	-	75-125	-	20
Barium, Total	0.4605	2	2.358	97		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.04970	99		-	-	75-125	-	20
Cadmium, Total	0.00010J	0.051	0.05352	105		-	-	75-125	-	20
Chromium, Total	0.00030J	0.2	0.1860	93		-	-	75-125	-	20
Cobalt, Total	0.00057	0.5	0.4812	96		-	-	75-125	-	20
Copper, Total	0.00030J	0.25	0.2428	97		-	-	75-125	-	20
Iron, Total	0.253	1	1.24	124		-	-	75-125	-	20
Lead, Total	ND	0.51	0.5298	104		-	-	75-125	-	20
Manganese, Total	0.8568	0.5	1.405	110		-	-	75-125	-	20
Nickel, Total	0.00059	0.5	0.4860	97		-	-	75-125	-	20
Potassium, Total	7.86	10	9.07	**31**	Q	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.142	118		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04810	96		-	-	75-125	-	20
Sodium, Total	284.	10	286	**20**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1180	98		-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4566	91		-	-	75-125	-	20
Zinc, Total	0.00181J	0.5	0.5198	104		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679614-4 QC Sample: L1405988-01 Client ID: MW-49										
Boron, Total	0.233	1	1.23	100		-	-	75-125	-	20
Calcium, Total	410	10	410	**0**	Q	-	-	75-125	-	20
Magnesium, Total	140	10	150	100		-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679614-4 QC Sample: L1405988-01 Client ID: MW-49										
Hardness	1600	66.2	1600	**0**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679611-3 QC Sample: L1405988-01 Client ID: MW-49						
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.8568	0.8486	mg/l	1		20
Thallium, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679611-3 QC Sample: L1405988-01 Client ID: MW-49						
Aluminum, Total	0.0231	0.0226	mg/l	2		20
Antimony, Total	0.01319	0.00539	mg/l	**84**	Q	20
Arsenic, Total	0.00067	0.00053	mg/l	**23**	Q	20
Barium, Total	0.4605	0.4532	mg/l	2		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	0.00010J	0.00010J	mg/l	NC		20
Chromium, Total	0.00030J	0.00030J	mg/l	NC		20
Cobalt, Total	0.00057	0.00057	mg/l	0		20
Copper, Total	0.00030J	0.00036J	mg/l	NC		20
Iron, Total	0.253	0.243	mg/l	4		20
Nickel, Total	0.00059	0.00054	mg/l	9		20
Potassium, Total	7.86	7.68	mg/l	2		20
Selenium, Total	ND	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Vanadium, Total	ND	0.00012J	mg/l	NC		20
Zinc, Total	0.00181J	0.00185J	mg/l	NC		20
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679611-3 QC Sample: L1405988-01 Client ID: MW-49						
Sodium, Total	284.	278	mg/l	2		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679614-3 QC Sample: L1405988-01 Client ID: MW-49					
Boron, Total	0.233	0.230	mg/l	1	20
Calcium, Total	410	400	mg/l	2	20
Magnesium, Total	140	140	mg/l	0	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679614-3 QC Sample: L1405988-01 Client ID: MW-49					
Hardness	1600	1600	mg/l	0	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

SAMPLE RESULTS

Lab ID: L1405988-01
Client ID: MW-49
Sample Location: T/O READING NY
Matrix: Water

Date Collected: 03/21/14 09:05
Date Received: 03/21/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	10		A.P.C.U.	5.0	5.0	1	-	03/22/14 06:13	30,2120B	EL
Alkalinity, Total	342.		mg CaCO3/L	2.00	NA	1	-	04/01/14 08:57	30,2320B	SD
SALINITY	3.1		SU	2.0	2.0	1	-	03/22/14 01:52	30,2520B	EL
Solids, Total Dissolved	1500		mg/l	20	7.1	2	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/28/14 18:30	03/31/14 15:20	1,9010C/9012B	JO
Nitrogen, Ammonia	0.646		mg/l	0.075	0.021	1	04/02/14 15:07	04/02/14 23:17	44,350.1	AT
Nitrogen, Nitrate	0.51		mg/l	0.10	0.021	1	-	03/21/14 22:12	44,353.2	ML
Nitrogen, Total Kjeldahl	0.82		mg/l	0.30	0.093	1	03/30/14 18:15	03/31/14 23:20	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	56.		mg/l	40	14.	4	03/28/14 15:00	03/28/14 18:31	44,410.4	TL
BOD, 5 day	2.3		mg/l	2.0	NA	1	03/22/14 01:30	03/26/14 22:00	30,5210B	SE
Total Organic Carbon	2.01		mg/l	1.00	0.236	2	-	04/02/14 06:47	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	04/02/14 11:15	04/02/14 18:11	4,420.1	TE
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/21/14 21:30	03/21/14 22:15	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.50	0.500	50	-	03/25/14 01:01	44,300.0	AU
Chloride	1600		mg/l	25.0	8.40	50	-	03/25/14 01:01	44,300.0	AU
Sulfate	105.		mg/l	50.0	11.4	50	-	03/25/14 01:01	44,300.0	AU

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988

Project Number: 08.8696 **Report Date:** 04/04/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG677194-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	03/21/14 21:53	44,353.2	ML
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG677205-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 21:30	03/21/14 22:15	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG677226-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	03/22/14 01:30	03/26/14 22:00	30,5210B	SE
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG677932-1										
Bromide	ND		mg/l	0.050	0.010	1	-	03/24/14 21:25	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	03/24/14 21:25	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	03/24/14 21:25	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG678412-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG678737-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/28/14 15:00	03/28/14 18:27	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG678775-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/28/14 18:30	03/31/14 15:14	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG678954-1										
Nitrogen, Total Kjeldahl	0.28	J	mg/l	0.30	0.031	1	03/30/14 18:15	03/31/14 23:03	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG679464-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	04/01/14 08:57	30,2320B	SD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG679657-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	04/02/14 11:15	04/02/14 18:03	4,420.1	TE
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG679716-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	04/02/14 15:07	04/02/14 23:09	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG679737-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	04/02/14 06:47	30,5310C	DW

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG677194-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG677205-2								
Chromium, Hexavalent	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG677225-1								
SALINITY	97		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG677226-2								
BOD, 5 day	109		-		85-115	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG677932-2								
Bromide	99		-		90-110	-		
Chloride	101		-		90-110	-		
Sulfate	109		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG678412-2								
Solids, Total Dissolved	104		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405988
Report Date: 04/04/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG678737-2					
Chemical Oxygen Demand	102	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG678775-2 WG678775-3					
Cyanide, Total	88	88	80-120	0	20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG678954-2					
Nitrogen, Total Kjeldahl	100	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG679464-2					
Alkalinity, Total	102	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG679657-2					
Phenolics, Total	102	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG679716-2					
Nitrogen, Ammonia	88	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG679737-2					
Total Organic Carbon	95	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677194-4 QC Sample: L1405931-01 Client ID: MS Sample												
Nitrogen, Nitrate	0.028J	4	4.2	105		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677205-4 QC Sample: L1405988-01 Client ID: MW-49												
Chromium, Hexavalent	0.004J	0.1	0.108	108		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677226-4 QC Sample: L1405988-01 Client ID: MW-49												
BOD, 5 day	2.3	100	120	121		-	-		50-145	-		35
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677932-3 QC Sample: L1405874-01 Client ID: MS Sample												
Bromide	0.019J	0.4	0.366	92		-	-		77-119	-		20
Chloride	15.5	4	19.0	88		-	-		40-151	-		18
Sulfate	25.5	8	31.9	80		-	-		60-140	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678737-3 QC Sample: L1405764-01 Client ID: MS Sample												
Chemical Oxygen Demand	ND	47.6	43	90		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678775-4 WG678775-5 QC Sample: L1406403-01 Client ID: MS Sample												
Cyanide, Total	0.002J	0.2	0.204	102		0.036	**18**	Q	80-120	**140**	Q	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678954-4 QC Sample: L1405764-01 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.22J	8	7.4	92		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679464-3 QC Sample: L1405988-01 Client ID: MW-49												
Alkalinity, Total	342.	100	433	91		-	-		86-116	-		10

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679657-4 QC Sample: L1406566-01 Client ID: MS Sample									
Phenolics, Total	ND	0.4	0.42	105	-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679716-4 QC Sample: L1406255-10 Client ID: MS Sample									
Nitrogen, Ammonia	0.385	4	4.10	93	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679737-4 QC Sample: L1406511-01 Client ID: MS Sample									
Total Organic Carbon	16.3	80	103	108	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677194-3 QC Sample: L1405931-01 Client ID: DUP Sample						
Nitrogen, Nitrate	0.028J	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677205-3 QC Sample: L1405988-01 Client ID: MW-49						
Chromium, Hexavalent	0.004J	0.004J	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677225-2 QC Sample: L1405988-01 Client ID: MW-49						
SALINITY	3.1	3.1	SU	0		
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677226-3 QC Sample: L1405984-01 Client ID: DUP Sample						
BOD, 5 day	5.1	4.4	mg/l	15		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677258-1 QC Sample: L1406006-01 Client ID: DUP Sample						
Color, Apparent	18.	18	A.P.C.U.	0		
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG677932-4 QC Sample: L1405874-01 Client ID: DUP Sample						
Bromide	0.019J	0.018J	mg/l	NC		20
Chloride	15.5	15.5	mg/l	0		18
Sulfate	25.5	24.6	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678412-3 QC Sample: L1406235-01 Client ID: DUP Sample						
Solids, Total Dissolved	82.	88	mg/l	7		17
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678737-4 QC Sample: L1405764-01 Client ID: DUP Sample						
Chemical Oxygen Demand	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678954-3 QC Sample: L1405764-01 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	0.22J	0.17J	mg/l	NC	24
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679464-4 QC Sample: L1406058-01 Client ID: DUP Sample					
Alkalinity, Total	86.8	84.7	mg CaCO3/L	2	10
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679657-3 QC Sample: L1406566-01 Client ID: DUP Sample					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679716-3 QC Sample: L1406255-10 Client ID: DUP Sample					
Nitrogen, Ammonia	0.385	0.407	mg/l	6	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679737-3 QC Sample: L1406511-01 Client ID: DUP Sample					
Total Organic Carbon	16.3	17.7	mg/l	8	20

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405988
Report Date: 04/04/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405988-01A	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1405988-01B	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1405988-01C	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260(14)
L1405988-01D	Vial H2SO4 preserved	A	N/A	2.9	Y	Absent	TOC-5310(28)
L1405988-01E	Vial H2SO4 preserved	A	N/A	2.9	Y	Absent	TOC-5310(28)
L1405988-01F	Amber 500ml H2SO4 preserved	A	<2	2.9	Y	Absent	TPHENOL-420(28)
L1405988-01G	Plastic 250ml unpreserved	A	7	2.9	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405988-01H	Plastic 500ml unpreserved	A	7	2.9	Y	Absent	BOD-5210(2)
L1405988-01I	Plastic 500ml H2SO4 preserved	A	<2	2.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405988-01J	Amber 250ml unpreserved	A	7	2.9	Y	Absent	SALINITY(28)
L1405988-01K	Plastic 250ml NaOH preserved	A	>12	2.9	Y	Absent	TCN-9010(14)
L1405988-01L	Plastic 250ml unpreserved	A	N/A	2.9	Y	Absent	ALK-T-2320(14)
L1405988-01M	Plastic 500ml HNO3 preserved	A	<2	2.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405988-01N	Plastic 1000ml unpreserved	A	7	2.9	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405988-02A	Vial HCl preserved	A	N/A	2.9	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405988
Project Number:	08.8696	**Report Date:**	04/04/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405988
Project Number:	08.8696	**Report Date:**	04/04/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT BRINE PONDS **Lab Number:** L1405988
Project Number: 08.8696 **Report Date:** 04/04/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 3/21/14

ALPHA Job #: L1405988

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Project Information
Project Name: US Salt Brine Ponds
Project Location: T/O Reading NY
Project #: 08.8696
(Use Project name as Project #) ☐
Project Manager: Kirk Moline
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ 2/28/14 # of Days:

Client Information
Client: CT Male Associates
Address: 50 Century Hill Drive
Latham NY 12110
Phone: 518 786 7400
Fax:
Email: K.moline@ctmale.com

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Baseline	Salinity	VOCs						Sample Specific Comments	Total Bottle
05988-1	MW-49	3/21/14	0905	GW	AB	X	X								
2	Trip blank							X							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	3/21/14 1545	[signature]	3/21/14 1545
[signature]	3/21/14 1904	[signature]	3/21/14 1904

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1405863
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT BRINE PONDS
Project Number:	08.8696
Report Date:	04/01/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1405863-01	TRIP BLANK	T/O READING, NY	03/20/14 00:00
L1405863-02	MW-53	T/O READING, NY	03/20/14 08:45
L1405863-03	MW-52	T/O READING, NY	03/20/14 09:15
L1405863-04	MW-44	T/O READING, NY	03/20/14 10:15
L1405863-05	MW-43	T/O READING, NY	03/20/14 10:50
L1405863-06	MW-45	T/O READING, NY	03/20/14 11:15
L1405863-07	MW-42	T/O READING, NY	03/20/14 11:45
L1405863-08	MW-46	T/O READING, NY	03/20/14 12:10
L1405863-09	MW-41	T/O READING, NY	03/20/14 13:40
L1405863-10	MW-47	T/O READING, NY	03/20/14 14:10
L1405863-11	MW-40	T/O READING, NY	03/20/14 14:30
L1405863-12	MW-48	T/O READING, NY	03/20/14 15:10
L1405863-13	MW-50	T/O READING, NY	03/20/14 15:40

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863
Project Number: 08.8696 **Report Date:** 04/01/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863
Project Number: 08.8696 **Report Date:** 04/01/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1405863-13 has elevated detection limits for all elements by Method 6020A due to the dilution required by matrix interferences encountered during analysis.

The WG678417-4 MS recovery, performed on L1405863-02, is outside the acceptance criteria for sodium (1%). A post digestion spike was performed and was within acceptance criteria.

Total Organic Carbon

L1405863-02, -03, -04, and -12 have elevated detection limits due to the dilutions required by the sample matrices.

Chemical Oxygen Demand

L1405863-04 has an elevated detection limit due to the dilution required by the sample matrix.

Anions by Ion Chromatography

L1405863-04, -06, -08, -10, -12, and -13 have elevated detection limits for Bromide due to the dilutions required by the sample matrices.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 04/01/14

ORGANICS

VOLATILES

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-01	Date Collected:	03/20/14 00:00
Client ID:	TRIP BLANK	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	03/31/14 23:07		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-01 Date Collected: 03/20/14 00:00

Client ID: TRIP BLANK Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-02	Date Collected:	03/20/14 08:45
Client ID:	MW-53	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	03/31/14 23:43		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-02 Date Collected: 03/20/14 08:45

Client ID: MW-53 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-03	Date Collected:	03/20/14 09:15
Client ID:	MW-52	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 11:15		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	11		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-03 Date Collected: 03/20/14 09:15

Client ID: MW-52 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-04	Date Collected:	03/20/14 10:15
Client ID:	MW-44	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 11:51		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	13		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-04 Date Collected: 03/20/14 10:15

Client ID: MW-44 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-05	Date Collected:	03/20/14 10:50
Client ID:	MW-43	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 04:13		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	10		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-05 Date Collected: 03/20/14 10:50

Client ID: MW-43 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-06	Date Collected:	03/20/14 11:15
Client ID:	MW-45	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 04:49		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	15		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-06 Date Collected: 03/20/14 11:15

Client ID: MW-45 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-07	Date Collected:	03/20/14 11:45
Client ID:	MW-42	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 05:24		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	15		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-07 Date Collected: 03/20/14 11:45

Client ID: MW-42 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-08	Date Collected:	03/20/14 12:10
Client ID:	MW-46	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 06:00		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.82		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-08 Date Collected: 03/20/14 12:10

Client ID: MW-46 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-09	Date Collected:	03/20/14 13:40
Client ID:	MW-41	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 06:36		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.1		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-09 Date Collected: 03/20/14 13:40

Client ID: MW-41 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-10	Date Collected:	03/20/14 14:10
Client ID:	MW-47	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 07:12		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.73		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-10 Date Collected: 03/20/14 14:10

Client ID: MW-47 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-11	Date Collected:	03/20/14 14:30
Client ID:	MW-40	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 12:26		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.41	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-11 Date Collected: 03/20/14 14:30

Client ID: MW-40 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	96		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-12	Date Collected:	03/20/14 15:10
Client ID:	MW-48	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 13:03		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.31	J	ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-12 Date Collected: 03/20/14 15:10

Client ID: MW-48 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID:	L1405863-13	Date Collected:	03/20/14 15:40
Client ID:	MW-50	Date Received:	03/20/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 13:38		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	0.59		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-13 Date Collected: 03/20/14 15:40

Client ID: MW-50 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/14 22:31
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,05-10 Batch: WG679303-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 03/31/14 22:31
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02,05-10 Batch: WG679303-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/01/14 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04,11-13 Batch: WG679408-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/01/14 10:38
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 03-04,11-13 Batch: WG679408-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-10 Batch: WG679303-1 WG679303-2								
Methylene chloride	90		83		70-130	8		20
1,1-Dichloroethane	94		85		70-130	10		20
Chloroform	95		86		70-130	10		20
2-Chloroethylvinyl ether	80		78		70-130	3		20
Carbon tetrachloride	90		81		63-132	11		20
1,2-Dichloropropane	94		87		70-130	8		20
Dibromochloromethane	84		79		63-130	6		20
1,1,2-Trichloroethane	95		88		70-130	8		20
Tetrachloroethene	88		81		70-130	8		20
Chlorobenzene	91		83		75-130	9		20
Trichlorofluoromethane	95		82		62-150	15		20
1,2-Dichloroethane	94		91		70-130	3		20
1,1,1-Trichloroethane	92		82		67-130	11		20
Bromodichloromethane	92		85		67-130	8		20
trans-1,3-Dichloropropene	85		79		70-130	7		20
cis-1,3-Dichloropropene	87		81		70-130	7		20
1,1-Dichloropropene	95		84		70-130	12		20
Bromoform	84		78		54-136	7		20
1,1,2,2-Tetrachloroethane	98		90		67-130	9		20
Benzene	95		86		70-130	10		20
Toluene	92		83		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-10 Batch: WG679303-1 WG679303-2								
Ethylbenzene	95		85		70-130	11		20
Chloromethane	75		75		64-130	0		20
Bromomethane	99		104		39-139	5		20
Vinyl chloride	83		74		55-140	11		20
Chloroethane	97		86		55-138	12		20
1,1-Dichloroethene	93		83		61-145	11		20
trans-1,2-Dichloroethene	92		82		70-130	11		20
Trichloroethene	94		87		70-130	8		20
1,2-Dichlorobenzene	91		84		70-130	8		20
1,3-Dichlorobenzene	92		86		70-130	7		20
1,4-Dichlorobenzene	90		85		70-130	6		20
Methyl tert butyl ether	96		85		63-130	12		20
p/m-Xylene	89		80		70-130	11		20
o-Xylene	90		83		70-130	8		20
cis-1,2-Dichloroethene	94		86		70-130	9		20
Dibromomethane	91		86		70-130	6		20
1,2,3-Trichloropropane	97		91		64-130	6		20
Acrylonitrile	100		89		70-130	12		20
Isopropyl Ether	97		88		70-130	10		20
tert-Butyl Alcohol	88		82		70-130	7		20
Styrene	95		87		70-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-10 Batch: WG679303-1 WG679303-2								
Dichlorodifluoromethane	92		83		36-147	10		20
Acetone	112		95		58-148	16		20
Carbon disulfide	95		82		51-130	15		20
2-Butanone	92		81		63-138	13		20
Vinyl acetate	81		72		70-130	12		20
4-Methyl-2-pentanone	98		82		59-130	18		20
2-Hexanone	96		87		57-130	10		20
Acrolein	84		72		40-160	15		20
Bromochloromethane	98		92		70-130	6		20
2,2-Dichloropropane	63		**57**	Q	63-133	10		20
1,2-Dibromoethane	94		85		70-130	10		20
1,3-Dichloropropane	96		90		70-130	6		20
1,1,1,2-Tetrachloroethane	90		82		64-130	9		20
Bromobenzene	93		88		70-130	6		20
n-Butylbenzene	92		82		53-136	11		20
sec-Butylbenzene	96		87		70-130	10		20
tert-Butylbenzene	94		86		70-130	9		20
o-Chlorotoluene	96		87		70-130	10		20
p-Chlorotoluene	96		89		70-130	8		20
1,2-Dibromo-3-chloropropane	85		79		41-144	7		20
Hexachlorobutadiene	90		80		63-130	12		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-10 Batch: WG679303-1 WG679303-2								
Isopropylbenzene	94		84		70-130	11		20
p-Isopropyltoluene	94		84		70-130	11		20
Naphthalene	88		81		70-130	8		20
n-Propylbenzene	98		89		69-130	10		20
1,2,3-Trichlorobenzene	91		82		70-130	10		20
1,2,4-Trichlorobenzene	85		83		70-130	2		20
1,3,5-Trimethylbenzene	96		89		64-130	8		20
1,2,4-Trimethylbenzene	96		89		70-130	8		20
Methyl Acetate	93		87		70-130	7		20
Ethyl Acetate	93		86		70-130	8		20
Cyclohexane	93		84		70-130	10		20
Ethyl-Tert-Butyl-Ether	97		88		70-130	10		20
Tertiary-Amyl Methyl Ether	93		86		66-130	8		20
1,4-Dioxane	82		76		56-162	8		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	95		82		70-130	15		20
1,4-Diethylbenzene	91		83		70-130	9		20
4-Ethyltoluene	97		88		70-130	10		20
1,2,4,5-Tetramethylbenzene	90		81		70-130	11		20
Ethyl ether	100		90		59-134	11		20
trans-1,4-Dichloro-2-butene	79		76		70-130	4		20
Iodomethane	**67**	Q	70		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02,05-10 Batch: WG679303-1 WG679303-2								
Methyl cyclohexane	95		83		70-130	13		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	103		104		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04,11-13 Batch: WG679408-1 WG679408-2								
Methylene chloride	92		86		70-130	7		20
1,1-Dichloroethane	97		93		70-130	4		20
Chloroform	96		94		70-130	2		20
2-Chloroethylvinyl ether	76		80		70-130	5		20
Carbon tetrachloride	100		91		63-132	9		20
1,2-Dichloropropane	93		89		70-130	4		20
Dibromochloromethane	88		84		63-130	5		20
1,1,2-Trichloroethane	94		92		70-130	2		20
Tetrachloroethene	93		86		70-130	8		20
Chlorobenzene	93		86		75-130	8		20
Trichlorofluoromethane	107		98		62-150	9		20
1,2-Dichloroethane	100		97		70-130	3		20
1,1,1-Trichloroethane	96		90		67-130	6		20
Bromodichloromethane	96		91		67-130	5		20
trans-1,3-Dichloropropene	93		89		70-130	4		20
cis-1,3-Dichloropropene	91		90		70-130	1		20
1,1-Dichloropropene	97		89		70-130	9		20
Bromoform	82		83		54-136	1		20
1,1,2,2-Tetrachloroethane	90		90		67-130	0		20
Benzene	96		91		70-130	5		20
Toluene	93		86		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04,11-13 Batch: WG679408-1 WG679408-2								
Ethylbenzene	97		90		70-130	7		20
Chloromethane	65		83		64-130	**24**	Q	20
Bromomethane	109		117		39-139	7		20
Vinyl chloride	93		84		55-140	10		20
Chloroethane	100		95		55-138	5		20
1,1-Dichloroethene	98		90		61-145	9		20
trans-1,2-Dichloroethene	94		88		70-130	7		20
Trichloroethene	97		91		70-130	6		20
1,2-Dichlorobenzene	88		86		70-130	2		20
1,3-Dichlorobenzene	88		87		70-130	1		20
1,4-Dichlorobenzene	88		86		70-130	2		20
Methyl tert butyl ether	91		89		63-130	2		20
p/m-Xylene	91		84		70-130	8		20
o-Xylene	91		85		70-130	7		20
cis-1,2-Dichloroethene	94		88		70-130	7		20
Dibromomethane	94		94		70-130	0		20
1,2,3-Trichloropropane	92		92		64-130	0		20
Acrylonitrile	90		96		70-130	6		20
Isopropyl Ether	89		89		70-130	0		20
tert-Butyl Alcohol	81		82		70-130	1		20
Styrene	95		89		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04,11-13 Batch: WG679408-1 WG679408-2								
Dichlorodifluoromethane	101		92		36-147	9		20
Acetone	107		89		58-148	18		20
Carbon disulfide	98		85		51-130	14		20
2-Butanone	84		81		63-138	4		20
Vinyl acetate	88		81		70-130	8		20
4-Methyl-2-pentanone	85		94		59-130	10		20
2-Hexanone	88		88		57-130	0		20
Acrolein	74		81		40-160	9		20
Bromochloromethane	97		93		70-130	4		20
2,2-Dichloropropane	93		88		63-133	6		20
1,2-Dibromoethane	90		89		70-130	1		20
1,3-Dichloropropane	95		90		70-130	5		20
1,1,1,2-Tetrachloroethane	92		86		64-130	7		20
Bromobenzene	90		88		70-130	2		20
n-Butylbenzene	94		87		53-136	8		20
sec-Butylbenzene	95		88		70-130	8		20
tert-Butylbenzene	92		86		70-130	7		20
o-Chlorotoluene	93		90		70-130	3		20
p-Chlorotoluene	95		91		70-130	4		20
1,2-Dibromo-3-chloropropane	83		86		41-144	4		20
Hexachlorobutadiene	94		83		63-130	12		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04,11-13 Batch: WG679408-1 WG679408-2								
Isopropylbenzene	94		88		70-130	7		20
p-Isopropyltoluene	92		87		70-130	6		20
Naphthalene	78		82		70-130	5		20
n-Propylbenzene	98		92		69-130	6		20
1,2,3-Trichlorobenzene	89		88		70-130	1		20
1,2,4-Trichlorobenzene	85		83		70-130	2		20
1,3,5-Trimethylbenzene	96		90		64-130	6		20
1,2,4-Trimethylbenzene	95		91		70-130	4		20
Methyl Acetate	86		85		70-130	1		20
Ethyl Acetate	94		91		70-130	3		20
Cyclohexane	93		87		70-130	7		20
Ethyl-Tert-Butyl-Ether	92		89		70-130	3		20
Tertiary-Amyl Methyl Ether	87		88		66-130	1		20
1,4-Dioxane	85		91		56-162	7		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	107		93		70-130	14		20
1,4-Diethylbenzene	88		85		70-130	3		20
4-Ethyltoluene	96		91		70-130	5		20
1,2,4,5-Tetramethylbenzene	92		85		70-130	8		20
Ethyl ether	98		92		59-134	6		20
trans-1,4-Dichloro-2-butene	86		87		70-130	1		20
Iodomethane	72		75		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-04,11-13 Batch: WG679408-1 WG679408-2								
Methyl cyclohexane	98		88		70-130	11		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		109		70-130
Toluene-d8	100		101		70-130
4-Bromofluorobenzene	101		104		70-130
Dibromofluoromethane	100		104		70-130

METALS

Project Name: US SALT BRINE PONDS
Lab Number: L1405863
Project Number: 08.8696
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-02
Client ID: MW-53
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 08:45
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.803		mg/l	0.0200	0.00400	2	03/27/14 13:35	03/28/14 12:32	EPA 3005A	1,6020A	KL
Antimony, Total	0.00083	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00123		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Barium, Total	0.08472		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Boron, Total	0.0247	J	mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 20:38	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Calcium, Total	36.		mg/l	0.10	0.030	1	03/27/14 13:35	03/27/14 20:38	EPA 3005A	1,6010C	TT
Chromium, Total	0.00184		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00068		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Copper, Total	0.00064	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Iron, Total	1.59		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Lead, Total	0.00044	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	03/27/14 13:35	03/27/14 20:38	EPA 3005A	1,6010C	TT
Manganese, Total	0.03368		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:44	EPA 7470A	1,7470A	AK
Nickel, Total	0.00182		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Potassium, Total	2.14		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Sodium, Total	6.41		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00181	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Zinc, Total	0.00457	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 11:17	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	140		mg/l	0.66	NA	1	03/27/14 13:35	03/27/14 20:38	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405863
Project Number: 08.8696
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-03
Client ID: MW-52
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 09:15
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0386		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Antimony, Total	0.00027	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00197		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Barium, Total	0.08135		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Boron, Total	0.0640		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:18	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Calcium, Total	48.		mg/l	0.10	0.030	1	03/27/14 13:35	03/27/14 21:18	EPA 3005A	1,6010C	TT
Chromium, Total	0.00033	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Cobalt, Total	ND		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Copper, Total	0.00015	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Iron, Total	0.273		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	03/27/14 13:35	03/27/14 21:18	EPA 3005A	1,6010C	TT
Manganese, Total	0.09515		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:50	EPA 7470A	1,7470A	AK
Nickel, Total	0.00016	J	mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Potassium, Total	1.42		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Sodium, Total	8.34		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Zinc, Total	0.00209	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 12:40	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	03/27/14 13:35	03/27/14 21:18	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-04
Client ID: MW-44
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 10:15
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.227		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Antimony, Total	0.00096	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00059		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Barium, Total	0.1870		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Boron, Total	0.0446		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:21	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Calcium, Total	410		mg/l	1.0	0.30	10	03/27/14 13:35	03/28/14 14:13	EPA 3005A	1,6010C	TT
Chromium, Total	0.00081	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00061		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Copper, Total	0.00035	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Iron, Total	1.72		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Lead, Total	0.00041	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Magnesium, Total	130		mg/l	1.0	0.10	10	03/27/14 13:35	03/28/14 14:13	EPA 3005A	1,6010C	TT
Manganese, Total	0.4537		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:51	EPA 7470A	1,7470A	AK
Nickel, Total	0.00093		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Potassium, Total	5.38		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Sodium, Total	370.		mg/l	1.00	0.150	10	03/27/14 13:35	03/28/14 12:54	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00038	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Zinc, Total	0.00196	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 12:43	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1600		mg/l	6.6	NA	10	03/27/14 13:35	03/28/14 14:13	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-05
Client ID: MW-43
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 10:50
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0721		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Antimony, Total	0.00034	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00362		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Barium, Total	0.03541		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Boron, Total	0.0726		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:26	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00012	J	mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Calcium, Total	69.		mg/l	0.10	0.030	1	03/27/14 13:35	03/27/14 21:26	EPA 3005A	1,6010C	TT
Chromium, Total	0.00044	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00068		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Copper, Total	0.00052	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Iron, Total	1.07		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Magnesium, Total	51.		mg/l	0.10	0.010	1	03/27/14 13:35	03/27/14 21:26	EPA 3005A	1,6010C	TT
Manganese, Total	0.9712		mg/l	0.00500	0.00100	10	03/27/14 13:35	03/28/14 14:24	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:53	EPA 7470A	1,7470A	AK
Nickel, Total	0.00428		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Potassium, Total	6.32		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Sodium, Total	33.7		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00017	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Zinc, Total	0.00215	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 12:47	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	380		mg/l	0.66	NA	1	03/27/14 13:35	03/27/14 21:26	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-06
Client ID: MW-45
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 11:15
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.152		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Antimony, Total	0.00032	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00560		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Barium, Total	0.03850		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Boron, Total	0.0776		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:29	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00005	J	mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Calcium, Total	130		mg/l	0.10	0.030	1	03/27/14 13:35	03/27/14 21:29	EPA 3005A	1,6010C	TT
Chromium, Total	0.00059	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00018	J	mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Copper, Total	0.00030	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Iron, Total	3.04		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Lead, Total	0.00020	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Magnesium, Total	61.		mg/l	0.10	0.010	1	03/27/14 13:35	03/27/14 21:29	EPA 3005A	1,6010C	TT
Manganese, Total	0.4333		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:55	EPA 7470A	1,7470A	AK
Nickel, Total	0.00049	J	mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Potassium, Total	2.93		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Sodium, Total	32.5		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00014	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Zinc, Total	0.00234	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 12:50	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	570		mg/l	0.66	NA	1	03/27/14 13:35	03/27/14 21:29	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405863
Project Number: 08.8696
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-07
Client ID: MW-42
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 11:45
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.395		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Antimony, Total	0.00020	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00078		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Barium, Total	0.04553		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Boron, Total	0.0263	J	mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:33	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00017	J	mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Calcium, Total	84.		mg/l	0.10	0.030	1	03/27/14 13:35	03/27/14 21:33	EPA 3005A	1,6010C	TT
Chromium, Total	0.00115		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00132		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Copper, Total	0.00115		mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Iron, Total	0.832		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Lead, Total	0.00082	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Magnesium, Total	41.		mg/l	0.10	0.010	1	03/27/14 13:35	03/27/14 21:33	EPA 3005A	1,6010C	TT
Manganese, Total	0.3674		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:57	EPA 7470A	1,7470A	AK
Nickel, Total	0.01386		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Potassium, Total	1.87		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Selenium, Total	0.00050	J	mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Sodium, Total	14.0		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00075	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Zinc, Total	0.00367	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 13:12	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	380		mg/l	0.66	NA	1	03/27/14 13:35	03/27/14 21:33	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-08 Date Collected: 03/20/14 12:10

Client ID: MW-46 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0982		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Antimony, Total	0.00041	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00214		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Barium, Total	0.08147		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Boron, Total	0.208		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:37	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Calcium, Total	120		mg/l	0.10	0.030	1	03/27/14 13:35	03/27/14 21:37	EPA 3005A	1,6010C	TT
Chromium, Total	0.00053	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00254		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Copper, Total	0.00040	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Iron, Total	0.404		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Magnesium, Total	48.		mg/l	0.10	0.010	1	03/27/14 13:35	03/27/14 21:37	EPA 3005A	1,6010C	TT
Manganese, Total	0.4295		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:59	EPA 7470A	1,7470A	AK
Nickel, Total	0.00094		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Potassium, Total	4.83		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Sodium, Total	43.6		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00039	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Zinc, Total	0.00207	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 13:19	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	500		mg/l	0.66	NA	1	03/27/14 13:35	03/27/14 21:37	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-09 Date Collected: 03/20/14 13:40

Client ID: MW-41 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.237		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Antimony, Total	0.00029	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00061		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Barium, Total	0.02632		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Boron, Total	0.0613		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:53	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Calcium, Total	52.		mg/l	0.10	0.030	1	03/27/14 13:35	03/28/14 13:53	EPA 3005A	1,6010C	TT
Chromium, Total	0.00076	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00066		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Copper, Total	0.00093	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Iron, Total	0.516		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Lead, Total	0.00052	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Magnesium, Total	77.		mg/l	0.10	0.010	1	03/27/14 13:35	03/28/14 13:53	EPA 3005A	1,6010C	TT
Manganese, Total	0.2965		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 10:00	EPA 7470A	1,7470A	AK
Nickel, Total	0.00133		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Potassium, Total	3.06		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Sodium, Total	20.3		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00080	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Zinc, Total	0.00255	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 13:23	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	450		mg/l	0.66	NA	1	03/27/14 13:35	03/28/14 13:53	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-10 Date Collected: 03/20/14 14:10

Client ID: MW-47 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0588		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Antimony, Total	0.00068	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00156		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Barium, Total	0.1021		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Boron, Total	0.232		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 21:57	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Calcium, Total	120		mg/l	0.10	0.030	1	03/27/14 13:35	03/28/14 13:57	EPA 3005A	1,6010C	TT
Chromium, Total	0.00099	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00083		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Copper, Total	0.00054	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Iron, Total	0.144		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Magnesium, Total	46.		mg/l	0.10	0.010	1	03/27/14 13:35	03/28/14 13:57	EPA 3005A	1,6010C	TT
Manganese, Total	0.3301		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 10:02	EPA 7470A	1,7470A	AK
Nickel, Total	0.00368		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Potassium, Total	5.55		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Sodium, Total	30.1		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00013	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Zinc, Total	0.00196	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 13:30	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	490		mg/l	0.66	NA	1	03/27/14 13:35	03/28/14 13:57	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-11 Date Collected: 03/20/14 14:30

Client ID: MW-40 Date Received: 03/20/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.304		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Antimony, Total	0.00030	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00087		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Barium, Total	0.05919		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Boron, Total	0.119		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 22:00	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00010	J	mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Calcium, Total	120		mg/l	0.10	0.030	1	03/27/14 13:35	03/28/14 14:01	EPA 3005A	1,6010C	TT
Chromium, Total	0.00105		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00086		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Copper, Total	0.00131		mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Iron, Total	0.596		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Lead, Total	0.00065	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Magnesium, Total	52.		mg/l	0.10	0.010	1	03/27/14 13:35	03/28/14 14:01	EPA 3005A	1,6010C	TT
Manganese, Total	1.210		mg/l	0.00250	0.00050	5	03/27/14 13:35	03/28/14 13:33	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 10:04	EPA 7470A	1,7470A	AK
Nickel, Total	0.00438		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Potassium, Total	14.5		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Sodium, Total	48.4		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00151	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Zinc, Total	0.00421	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 13:37	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	520		mg/l	0.66	NA	1	03/27/14 13:35	03/28/14 14:01	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405863
Project Number: 08.8696
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-12
Client ID: MW-48
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 15:10
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.351		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Antimony, Total	0.00033	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00146		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Barium, Total	0.2064		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Boron, Total	0.180		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 22:04	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Calcium, Total	200		mg/l	1.0	0.30	10	03/27/14 13:35	03/28/14 14:17	EPA 3005A	1,6010C	TT
Chromium, Total	0.00097	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Cobalt, Total	0.00041		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Copper, Total	0.00046	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Iron, Total	1.13		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Lead, Total	0.00051	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Magnesium, Total	64.		mg/l	1.0	0.10	10	03/27/14 13:35	03/28/14 14:17	EPA 3005A	1,6010C	TT
Manganese, Total	1.015		mg/l	0.00500	0.00100	10	03/27/14 13:35	03/28/14 13:44	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 10:06	EPA 7470A	1,7470A	AK
Nickel, Total	0.00205		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Potassium, Total	4.65		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Sodium, Total	133.		mg/l	1.00	0.150	10	03/27/14 13:35	03/28/14 13:44	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Vanadium, Total	0.00049	J	mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Zinc, Total	0.00272	J	mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 13:41	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	760		mg/l	6.6	NA	10	03/27/14 13:35	03/28/14 14:17	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-13
Client ID: MW-50
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 15:40
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0315	J	mg/l	0.0500	0.0100	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Antimony, Total	0.00209	J	mg/l	0.00500	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Arsenic, Total	0.00468		mg/l	0.00250	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Barium, Total	0.2750		mg/l	0.00250	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00250	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Boron, Total	0.0329		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 22:08	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00032	J	mg/l	0.00100	0.00025	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Calcium, Total	160		mg/l	0.10	0.030	1	03/27/14 13:35	03/28/14 14:05	EPA 3005A	1,6010C	TT
Chromium, Total	ND		mg/l	0.00500	0.00100	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Cobalt, Total	ND		mg/l	0.00100	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Copper, Total	ND		mg/l	0.00500	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Iron, Total	5.73		mg/l	0.250	0.0650	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00500	0.00100	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Magnesium, Total	69.		mg/l	0.10	0.010	1	03/27/14 13:35	03/28/14 14:05	EPA 3005A	1,6010C	TT
Manganese, Total	0.7640		mg/l	0.00250	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 10:11	EPA 7470A	1,7470A	AK
Nickel, Total	0.00088	J	mg/l	0.00250	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Potassium, Total	8.08		mg/l	0.500	0.135	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Selenium, Total	ND		mg/l	0.0250	0.00150	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Silver, Total	ND		mg/l	0.00200	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Sodium, Total	197.		mg/l	1.00	0.150	10	03/27/14 13:35	03/28/14 14:17	EPA 3005A	1,6020A	KL
Thallium, Total	ND		mg/l	0.00250	0.00015	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Vanadium, Total	ND		mg/l	0.02500	0.00050	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Zinc, Total	ND		mg/l	0.05000	0.00600	5	03/27/14 13:35	03/28/14 14:20	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	680		mg/l	0.66	NA	1	03/27/14 13:35	03/28/14 14:05	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-13 Batch: WG678341-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/27/14 11:40	03/29/14 09:35	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-13 Batch: WG678417-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Antimony, Total	0.00062	J	mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Arsenic, Total	0.00017	J	mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Barium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Chromium, Total	0.00021	J	mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Cobalt, Total	ND		mg/l	0.00020	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Copper, Total	ND		mg/l	0.00100	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Iron, Total	ND		mg/l	0.0500	0.0130	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Manganese, Total	0.00016	J	mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Nickel, Total	ND		mg/l	0.00050	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0270	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Sodium, Total	ND		mg/l	0.100	0.0150	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL
Zinc, Total	ND		mg/l	0.01000	0.00120	1	03/27/14 13:35	03/28/14 10:55	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 02-13 Batch: WG678420-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	03/27/14 13:35	03/27/14 19:33	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	03/27/14 13:35	03/27/14 19:33	1,6010C	TT
Magnesium, Total	ND		mg/l	0.10	0.010	1	03/27/14 13:35	03/27/14 19:33	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 02-13 Batch: WG678420-1										
Hardness	ND		mg/l	0.66	NA	1	03/27/14 13:35	03/27/14 19:33	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT BRINE PONDS

Project Number: 08.8696

Lab Number: L1405863

Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 Batch: WG678341-2								
Mercury, Total	85		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 Batch: WG678417-2					
Aluminum, Total	100	-	80-120	-	
Antimony, Total	85	-	80-120	-	
Arsenic, Total	99	-	80-120	-	
Barium, Total	95	-	80-120	-	
Beryllium, Total	100	-	80-120	-	
Cadmium, Total	109	-	80-120	-	
Chromium, Total	98	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	98	-	80-120	-	
Lead, Total	102	-	80-120	-	
Manganese, Total	98	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	83	-	80-120	-	
Selenium, Total	104	-	80-120	-	
Silver, Total	95	-	80-120	-	
Sodium, Total	111	-	80-120	-	
Thallium, Total	95	-	80-120	-	
Vanadium, Total	112	-	80-120	-	
Zinc, Total	106	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT BRINE PONDS

Project Number: 08.8696

Lab Number: L1405863

Report Date: 04/01/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 Batch: WG678420-2					
Boron, Total	107	-	80-120	-	
Calcium, Total	96	-	80-120	-	
Magnesium, Total	95	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-13 Batch: WG678420-2					
Hardness	95	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678341-4 QC Sample: L1405866-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00521	104		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678417-4 QC Sample: L1405863-02 Client ID: MW-53										
Aluminum, Total	0.803	2	2.96	108		-	-	75-125	-	20
Antimony, Total	0.00083J	0.5	0.4553	91		-	-	75-125	-	20
Arsenic, Total	0.00123	0.12	0.1294	107		-	-	75-125	-	20
Barium, Total	0.08472	2	2.038	98		-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.05032	101		-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05779	113		-	-	75-125	-	20
Chromium, Total	0.00184	0.2	0.2004	100		-	-	75-125	-	20
Cobalt, Total	0.00068	0.5	0.5136	102		-	-	75-125	-	20
Copper, Total	0.00064J	0.25	0.2566	103		-	-	75-125	-	20
Iron, Total	1.59	1	2.58	104		-	-	75-125	-	20
Lead, Total	0.00044J	0.51	0.5317	104		-	-	75-125	-	20
Manganese, Total	0.03368	0.5	0.5317	100		-	-	75-125	-	20
Nickel, Total	0.00182	0.5	0.5179	103		-	-	75-125	-	20
Potassium, Total	2.14	10	12.4	106		-	-	75-125	-	20
Selenium, Total	ND	0.12	0.128	107		-	-	75-125	-	20
Silver, Total	ND	0.05	0.04825	96		-	-	75-125	-	20
Sodium, Total	6.41	10	6.56	**1**	Q	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1167	97		-	-	75-125	-	20
Vanadium, Total	0.00181J	0.5	0.5688	114		-	-	75-125	-	20
Zinc, Total	0.00457J	0.5	0.5375	108		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678420-4 QC Sample: L1405863-02 Client ID: MW-53									
Boron, Total	0.0247J	1	1.13	113	-	-	75-125	-	20
Calcium, Total	36.	10	46	100	-	-	75-125	-	20
Magnesium, Total	12.	10	23	110	-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678420-4 QC Sample: L1405863-02 Client ID: MW-53									
Hardness	140	66.2	210	106	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678341-3 QC Sample: L1405866-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678417-3 QC Sample: L1405863-02 Client ID: MW-53					
Antimony, Total	0.00083J	0.00077J	mg/l	NC	20
Arsenic, Total	0.00123	0.00121	mg/l	2	20
Barium, Total	0.08472	0.08347	mg/l	1	20
Beryllium, Total	ND	ND	mg/l	NC	20
Cadmium, Total	ND	ND	mg/l	NC	20
Chromium, Total	0.00184	0.00185	mg/l	1	20
Cobalt, Total	0.00068	0.00064	mg/l	5	20
Copper, Total	0.00064J	0.00065J	mg/l	NC	20
Iron, Total	1.59	1.57	mg/l	1	20
Lead, Total	0.00044J	0.00045J	mg/l	NC	20
Manganese, Total	0.03368	0.03350	mg/l	1	20
Nickel, Total	0.00182	0.00164	mg/l	11	20
Potassium, Total	2.14	2.11	mg/l	1	20
Selenium, Total	ND	ND	mg/l	NC	20
Silver, Total	ND	ND	mg/l	NC	20
Sodium, Total	6.41	6.23	mg/l	3	20
Thallium, Total	ND	ND	mg/l	NC	20
Vanadium, Total	0.00181J	0.00167J	mg/l	NC	20
Zinc, Total	0.00457J	0.00579J	mg/l	NC	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678417-3 QC Sample: L1405863-02 Client ID: MW-53					
Aluminum, Total	0.803	0.824	mg/l	3	20
Total Metals - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678420-3 QC Sample: L1405863-02 Client ID: MW-53					
Boron, Total	0.0247J	0.0220J	mg/l	NC	20
Calcium, Total	36.	38	mg/l	5	20
Magnesium, Total	12.	13	mg/l	8	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678420-3 QC Sample: L1405863-02 Client ID: MW-53					
Hardness	140	150	mg/l	7	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-02
Client ID: MW-53
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 08:45
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	125.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	180		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	0.008		mg/l	0.005	0.001	1	03/27/14 08:10	03/27/14 17:22	1,9010C/9012B	JO
Nitrogen, Ammonia	0.106		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:52	44,350.1	AT
Nitrogen, Nitrate	0.041	J	mg/l	0.10	0.021	1	-	03/21/14 02:40	44,353.2	DB
Nitrogen, Total Kjeldahl	0.27	J	mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:46	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	12.		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:04	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	0.650	J	mg/l	1.00	0.236	2	-	03/27/14 09:40	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 13:15	03/27/14 19:51	4,420.1	TE
Chromium, Hexavalent	0.013		mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:17	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/22/14 02:47	44,300.0	AU
Chloride	1.55		mg/l	0.500	0.168	1	-	03/22/14 02:47	44,300.0	AU
Sulfate	31.3		mg/l	5.00	1.14	5	-	03/27/14 18:35	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-03
Client ID: MW-52
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 09:15
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	176.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	250		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/21/14 11:00	03/21/14 17:34	1,9010C/9012B	JO
Nitrogen, Ammonia	0.148		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:53	44,350.1	AT
Nitrogen, Nitrate	0.053	J	mg/l	0.10	0.021	1	-	03/21/14 02:41	44,353.2	DB
Nitrogen, Total Kjeldahl	0.44		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:49	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:04	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	0.630	J	mg/l	1.00	0.236	2	-	03/27/14 09:40	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 16:15	03/27/14 19:57	4,420.1	TE
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:17	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/22/14 02:59	44,300.0	AU
Chloride	1.62		mg/l	0.500	0.168	1	-	03/22/14 02:59	44,300.0	AU
Sulfate	36.0		mg/l	5.00	1.14	5	-	03/27/14 18:47	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-04
Client ID: MW-44
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 10:15
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	20		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	323.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	3.1		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	3200		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/21/14 11:00	03/21/14 17:35	1,9010C/9012B	JO
Nitrogen, Ammonia	0.165		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:54	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	03/21/14 02:44	44,353.2	DB
Nitrogen, Total Kjeldahl	0.40		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:50	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	17.	J	mg/l	40	14.	4	03/27/14 17:00	03/27/14 20:04	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	0.910	J	mg/l	1.00	0.236	2	-	03/27/14 09:40	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 16:15	03/27/14 19:57	4,420.1	TE
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:17	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.50	0.500	50	-	03/22/14 03:11	44,300.0	AU
Chloride	1490		mg/l	25.0	8.40	50	-	03/22/14 03:11	44,300.0	AU
Sulfate	102.		mg/l	10.0	2.29	10	-	03/27/14 18:59	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-05
Client ID: MW-43
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 10:50
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	6.0		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	380.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	540		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/27/14 08:10	03/27/14 17:23	1,9010C/9012B	JO
Nitrogen, Ammonia	0.107		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:55	44,350.1	AT
Nitrogen, Nitrate	0.073	J	mg/l	0.10	0.021	1	-	03/21/14 02:44	44,353.2	DB
Nitrogen, Total Kjeldahl	0.42		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:51	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	16.		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:04	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	2.31		mg/l	1.00	0.236	2	-	03/27/14 09:40	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 16:15	03/27/14 19:58	4,420.1	TE
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:17	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.124		mg/l	0.050	0.010	1	-	03/22/14 03:23	44,300.0	AU
Chloride	26.6		mg/l	0.500	0.168	1	-	03/22/14 03:23	44,300.0	AU
Sulfate	76.7		mg/l	10.0	2.29	10	-	03/27/14 19:11	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-06
Client ID: MW-45
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 11:15
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	29		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	406.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	770		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:38	1,9010C/9012B	JO
Nitrogen, Ammonia	0.158		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:55	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	03/21/14 02:45	44,353.2	DB
Nitrogen, Total Kjeldahl	0.34		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:51	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	6.8	J	mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	1.59		mg/l	1.00	0.236	2	-	03/27/14 09:40	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 16:15	03/27/14 19:59	4,420.1	TE
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:18	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.100	10	-	03/22/14 03:35	44,300.0	AU
Chloride	99.7		mg/l	5.00	1.68	10	-	03/22/14 03:35	44,300.0	AU
Sulfate	149.		mg/l	10.0	2.29	10	-	03/27/14 19:47	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-07
Client ID: MW-42
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 11:45
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	14		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	359.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	490		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:39	1,9010C/9012B	JO
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:56	44,350.1	AT
Nitrogen, Nitrate	0.16		mg/l	0.10	0.021	1	-	03/21/14 02:46	44,353.2	DB
Nitrogen, Total Kjeldahl	0.23	J	mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:52	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	19.		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	1.21		mg/l	1.00	0.236	2	-	03/28/14 09:09	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 16:15	03/27/14 20:00	4,420.1	TE
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:18	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/22/14 04:23	44,300.0	AU
Chloride	10.6		mg/l	0.500	0.168	1	-	03/22/14 04:23	44,300.0	AU
Sulfate	69.9		mg/l	10.0	2.29	10	-	03/27/14 19:59	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-08
Client ID: MW-46
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 12:10
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	9.0		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	361.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	740		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:40	1,9010C/9012B	JO
Nitrogen, Ammonia	0.317		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:57	44,350.1	AT
Nitrogen, Nitrate	0.075	J	mg/l	0.10	0.021	1	-	03/21/14 02:46	44,353.2	DB
Nitrogen, Total Kjeldahl	0.51		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:53	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	12.		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	1.09		mg/l	1.00	0.236	2	-	03/28/14 09:09	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 16:15	03/27/14 20:01	4,420.1	TE
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:18	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.100	10	-	03/22/14 04:35	44,300.0	AU
Chloride	142.		mg/l	5.00	1.68	10	-	03/22/14 04:35	44,300.0	AU
Sulfate	86.9		mg/l	10.0	2.29	10	-	03/27/14 20:11	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-09
Client ID: MW-41
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 13:40
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	52		A.P.C.U.	10	10.	2	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	421.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	550		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:40	1,9010C/9012B	JO
Nitrogen, Ammonia	0.047	J	mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 23:01	44,350.1	AT
Nitrogen, Nitrate	0.072	J	mg/l	0.10	0.021	1	-	03/21/14 02:47	44,353.2	DB
Nitrogen, Total Kjeldahl	0.39		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:57	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	12.		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	1.51		mg/l	1.00	0.236	2	-	03/28/14 09:09	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/28/14 11:15	03/28/14 17:06	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:18	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.032	J	mg/l	0.050	0.010	1	-	03/22/14 04:47	44,300.0	AU
Chloride	13.9		mg/l	0.500	0.168	1	-	03/22/14 04:47	44,300.0	AU
Sulfate	86.5		mg/l	10.0	2.29	10	-	03/27/14 20:23	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-10
Client ID: MW-47
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 14:10
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	365.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	680		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:41	1,9010C/9012B	JO
Nitrogen, Ammonia	0.378		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 23:02	44,350.1	AT
Nitrogen, Nitrate	0.041	J	mg/l	0.10	0.021	1	-	03/21/14 02:48	44,353.2	DB
Nitrogen, Total Kjeldahl	0.75		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:58	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	1.24		mg/l	1.00	0.236	2	-	03/28/14 09:09	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/28/14 11:15	03/28/14 17:10	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:19	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.122	J	mg/l	0.250	0.050	5	-	03/22/14 04:59	44,300.0	AU
Chloride	101.		mg/l	2.50	0.840	5	-	03/22/14 04:59	44,300.0	AU
Sulfate	92.5		mg/l	10.0	2.29	10	-	03/27/14 20:35	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-11
Client ID: MW-40
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 14:30
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:49	30,2120B	EL
Alkalinity, Total	236.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	810		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:42	1,9010C/9012B	JO
Nitrogen, Ammonia	0.075		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 23:02	44,350.1	AT
Nitrogen, Nitrate	0.082	J	mg/l	0.10	0.021	1	-	03/21/14 02:48	44,353.2	DB
Nitrogen, Total Kjeldahl	0.83		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:58	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	14.		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
Total Organic Carbon	1.11		mg/l	1.00	0.236	2	-	03/28/14 09:09	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/28/14 11:15	03/28/14 17:12	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:00	03/21/14 05:19	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	0.153		mg/l	0.050	0.010	1	-	03/22/14 05:11	44,300.0	AU
Chloride	284.		mg/l	5.00	1.68	10	-	03/22/14 05:23	44,300.0	AU
Sulfate	70.1		mg/l	10.0	2.29	10	-	03/27/14 20:47	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-12
Client ID: MW-48
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 15:10
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	9.0		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:56	30,2120B	EL
Alkalinity, Total	297.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	1200		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	0.004	J	mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:43	1,9010C/9012B	JO
Nitrogen, Ammonia	0.513		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 23:03	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	03/21/14 02:49	44,353.2	DB
Nitrogen, Total Kjeldahl	0.74		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 21:59	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	6.8	J	mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 16:55	03/26/14 14:30	30,5210B	JT
Total Organic Carbon	0.660	J	mg/l	1.00	0.236	2	-	03/28/14 09:09	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/28/14 11:15	03/28/14 17:15	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:00	03/21/14 05:19	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.250	25	-	03/22/14 05:35	44,300.0	AU
Chloride	464.		mg/l	12.5	4.20	25	-	03/22/14 05:35	44,300.0	AU
Sulfate	50.5		mg/l	10.0	2.29	10	-	03/27/14 20:59	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

SAMPLE RESULTS

Lab ID: L1405863-13
Client ID: MW-50
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/20/14 15:40
Date Received: 03/20/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	15		A.P.C.U.	5.0	5.0	1	-	03/21/14 06:56	30,2120B	EL
Alkalinity, Total	400.		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
SALINITY	ND		SU	2.0	2.0	1	-	03/21/14 03:42	30,2520B	EL
Solids, Total Dissolved	1600		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/27/14 08:10	03/27/14 17:24	1,9010C/9012B	JO
Nitrogen, Ammonia	0.059	J	mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 23:04	44,350.1	AT
Nitrogen, Nitrate	0.044	J	mg/l	0.10	0.021	1	-	03/21/14 02:50	44,353.2	DB
Nitrogen, Total Kjeldahl	0.40		mg/l	0.30	0.093	1	03/26/14 16:32	03/27/14 22:00	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	6.8	J	mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:05	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 16:55	03/26/14 14:30	30,5210B	JT
Total Organic Carbon	1.43		mg/l	1.00	0.236	2	-	03/28/14 09:09	30,5310C	SD
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/28/14 11:15	03/28/14 17:15	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:00	03/21/14 05:20	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.250	25	-	03/22/14 05:47	44,300.0	AU
Chloride	689.		mg/l	12.5	4.20	25	-	03/22/14 05:47	44,300.0	AU
Sulfate	73.6		mg/l	10.0	2.29	10	-	03/27/14 21:11	44,300.0	AU

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-13 Batch: WG676921-1										
Nitrogen, Nitrate	0.023	J	mg/l	0.10	0.021	1	-	03/21/14 02:35	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 11-13 Batch: WG676926-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:00	03/21/14 05:18	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 03-04 Batch: WG676991-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/21/14 11:00	03/21/14 16:56	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 06-12 Batch: WG677115-1										
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	03/21/14 13:30	03/24/14 15:30	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 02-11 Batch: WG677116-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 15:00	03/26/14 12:45	30,5210B	JT
General Chemistry - Westborough Lab for sample(s): 12-13 Batch: WG677117-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	03/21/14 16:55	03/26/14 14:30	30,5210B	JT
General Chemistry - Westborough Lab for sample(s): 02-13 Batch: WG677131-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	03/21/14 08:18	30,2320B	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-13 Batch: WG677617-1										
Bromide	ND		mg/l	0.050	0.010	1	-	03/22/14 01:59	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	03/22/14 01:59	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 02-10 Batch: WG677928-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/21/14 05:50	03/21/14 06:15	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 02-13 Batch: WG678176-1										
Nitrogen, Total Kjeldahl	0.12	J	mg/l	0.30	0.031	1	03/26/14 16:32	03/27/14 21:37	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 02,05,13 Batch: WG678323-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/27/14 08:10	03/27/14 17:11	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 02-08 Batch: WG678385-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/27/14 13:15	03/27/14 19:45	4,420.1	TE
General Chemistry - Westborough Lab for sample(s): 02-11 Batch: WG678407-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD
General Chemistry - Westborough Lab for sample(s): 12-13 Batch: WG678408-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	03/27/14 14:30	30,2540C	SD

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863

Project Number: 08.8696 **Report Date:** 04/01/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-13 Batch: WG678460-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:01	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 02-13 Batch: WG678483-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	03/27/14 17:01	03/27/14 22:38	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 02-06 Batch: WG678574-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	03/27/14 09:40	30,5310C	SD
General Chemistry - Westborough Lab for sample(s): 09-13 Batch: WG678711-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/28/14 11:15	03/28/14 17:04	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 07-13 Batch: WG678762-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	03/28/14 09:09	30,5310C	SD
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-13 Batch: WG678779-1										
Sulfate	ND		mg/l	1.00	0.229	1	-	03/27/14 17:23	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-13 Batch: WG676921-2								
Nitrogen, Nitrate	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 11-13 Batch: WG676926-2								
Chromium, Hexavalent	106		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 02-13 Batch: WG676933-1								
SALINITY	98		-			-		
General Chemistry - Westborough Lab Associated sample(s): 03-04 Batch: WG676991-2 WG676991-3								
Cyanide, Total	93		97		80-120	4		20
General Chemistry - Westborough Lab Associated sample(s): 06-12 Batch: WG677115-2 WG677115-3								
Cyanide, Total	101		103		80-120	2		20
General Chemistry - Westborough Lab Associated sample(s): 02-11 Batch: WG677116-2								
BOD, 5 day	108		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 12-13 Batch: WG677117-2								
BOD, 5 day	108		-		85-115	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-13 Batch: WG677131-2					
Alkalinity, Total	102	-	90-110	-	10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-13 Batch: WG677617-2					
Bromide	104	-	90-110	-	
Chloride	102	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 02-10 Batch: WG677928-2					
Chromium, Hexavalent	104	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-13 Batch: WG678176-2					
Nitrogen, Total Kjeldahl	98	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 02,05,13 Batch: WG678323-2 WG678323-3					
Cyanide, Total	85	92	80-120	8	20
General Chemistry - Westborough Lab Associated sample(s): 02-08 Batch: WG678385-2					
Phenolics, Total	102	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 02-11 Batch: WG678407-2					
Solids, Total Dissolved	97	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12-13 Batch: WG678408-2					
Solids, Total Dissolved	97	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 02-13 Batch: WG678460-2					
Chemical Oxygen Demand	96	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 02-13 Batch: WG678483-2					
Nitrogen, Ammonia	120	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-06 Batch: WG678574-2					
Total Organic Carbon	104	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 09-13 Batch: WG678711-2					
Phenolics, Total	102	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 07-13 Batch: WG678762-2					
Total Organic Carbon	110	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-13 Batch: WG678779-2					
Sulfate	100	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG676921-4 QC Sample: L1405863-05 Client ID: MW-43												
Nitrogen, Nitrate	0.073J	4	4.1	102		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG676926-4 QC Sample: L1405863-11 Client ID: MW-40												
Chromium, Hexavalent	ND	0.1	0.108	108		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 03-04 QC Batch ID: WG676991-4 WG676991-5 QC Sample: L1405637-01 Client ID: MS Sample												
Cyanide, Total	0.001J	0.2	0.203	102		0.208	104		80-120	2		20
General Chemistry - Westborough Lab Associated sample(s): 06-12 QC Batch ID: WG677115-4 WG677115-5 QC Sample: L1405637-05 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.199	100		0.184	92		80-120	8		20
General Chemistry - Westborough Lab Associated sample(s): 02-11 QC Batch ID: WG677116-4 QC Sample: L1405862-05 Client ID: MS Sample												
BOD, 5 day	ND	100	110	109		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG677117-4 QC Sample: L1400003-85 Client ID: MS Sample												
BOD, 5 day	15.	200	240	114		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG677131-3 QC Sample: L1405637-05 Client ID: MS Sample												
Alkalinity, Total	5640	1000	6710	107		-	-		86-116	-		10
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG677617-3 QC Sample: L1405863-02 Client ID: MW-53												
Bromide	ND	0.4	0.378	94		-	-		77-119	-		20
Chloride	1.55	4	5.60	101		-	-		40-151	-		18

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG677928-4 QC Sample: L1405863-07 Client ID: MW-42									
Chromium, Hexavalent	0.004J	0.1	0.105	105	-	-	85-115	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678176-4 QC Sample: L1405863-02 Client ID: MW-53									
Nitrogen, Total Kjeldahl	0.27J	8	7.8	98	-	-	77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 02,05,13 QC Batch ID: WG678323-4 WG678323-5 QC Sample: L1405862-10 Client ID: MS Sample									
Cyanide, Total	ND	0.2	0.166	83	0.194	97	80-120	16	20
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG678385-4 QC Sample: L1405863-02 Client ID: MW-53									
Phenolics, Total	ND	0.4	0.40	100	-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678460-3 QC Sample: L1405636-05 Client ID: MS Sample									
Chemical Oxygen Demand	4000	2380	6400	101	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678483-4 QC Sample: L1405636-05 Client ID: MS Sample									
Nitrogen, Ammonia	713.	400	1050	85	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG678574-3 QC Sample: L1405863-05 Client ID: MW-43									
Total Organic Carbon	2.31	8	11.5	115	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 09-13 QC Batch ID: WG678711-4 QC Sample: L1405863-09 Client ID: MW-41									
Phenolics, Total	ND	0.4	0.39	98	-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 07-13 QC Batch ID: WG678762-3 QC Sample: L1405863-10 Client ID: MW-47									
Total Organic Carbon	1.24	8	10.2	112	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678779-3 QC Sample: L1405762-01 Client ID: MS Sample									
Sulfate	12.0	8	20.0	100	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG676921-3 QC Sample: L1405863-05 Client ID: MW-43						
Nitrogen, Nitrate	0.073J	0.072J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 11-13 QC Batch ID: WG676926-3 QC Sample: L1405863-11 Client ID: MW-40						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02-11 QC Batch ID: WG676928-1 QC Sample: L1405863-08 Client ID: MW-46						
Color, Apparent	9.0	9.0	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG676929-1 QC Sample: L1405863-13 Client ID: MW-50						
Color, Apparent	15.	15	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG676933-2 QC Sample: L1405863-06 Client ID: MW-45						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 02-11 QC Batch ID: WG677116-3 QC Sample: L1405862-05 Client ID: DUP Sample						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG677117-3 QC Sample: L1400003-85 Client ID: DUP Sample						
BOD, 5 day	15.	13	mg/l	14		35
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG677131-4 QC Sample: L1405637-05 Client ID: DUP Sample						
Alkalinity, Total	5640	5660	mg CaCO3/L	0		10

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG677617-4 QC Sample: L1405863-02 Client ID: MW-53					
Bromide	ND	ND	mg/l	NC	20
Chloride	1.55	1.53	mg/l	1	18
General Chemistry - Westborough Lab Associated sample(s): 02-10 QC Batch ID: WG677928-3 QC Sample: L1405863-02 Client ID: MW-53					
Chromium, Hexavalent	0.013	0.013	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678176-3 QC Sample: L1405863-02 Client ID: MW-53					
Nitrogen, Total Kjeldahl	0.27J	0.29J	mg/l	NC	24
General Chemistry - Westborough Lab Associated sample(s): 02-08 QC Batch ID: WG678385-3 QC Sample: L1405863-02 Client ID: MW-53					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 02-11 QC Batch ID: WG678407-3 QC Sample: L1405863-02 Client ID: MW-53					
Solids, Total Dissolved	180	190	mg/l	5	17
General Chemistry - Westborough Lab Associated sample(s): 12-13 QC Batch ID: WG678408-3 QC Sample: L1405863-12 Client ID: MW-48					
Solids, Total Dissolved	1200	1200	mg/l	0	17
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678460-4 QC Sample: L1405636-05 Client ID: DUP Sample					
Chemical Oxygen Demand	4000	4000	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678483-3 QC Sample: L1405636-05 Client ID: DUP Sample					
Nitrogen, Ammonia	713.	607	mg/l	16	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-06 QC Batch ID: WG678574-4 QC Sample: L1405863-05 Client ID: MW-43					
Total Organic Carbon	2.31	2.30	mg/l	0	20
General Chemistry - Westborough Lab Associated sample(s): 09-13 QC Batch ID: WG678711-3 QC Sample: L1405863-09 Client ID: MW-41					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 07-13 QC Batch ID: WG678762-4 QC Sample: L1405863-09 Client ID: MW-41					
Total Organic Carbon	1.51	1.50	mg/l	1	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-13 QC Batch ID: WG678779-4 QC Sample: L1405762-01 Client ID: DUP Sample					
Sulfate	12.0	12.0	mg/l	0	20

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Cooler	Custody Seal
A	Absent
D	Absent
B	Absent
C	Absent
E	Absent
F	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-01A	Vial HCl preserved	C	N/A	5.4	Y	Absent	NYTCL-8260(14)
L1405863-02A	Vial HCl preserved	C	N/A	5.4	Y	Absent	NYTCL-8260(14)
L1405863-02B	Vial HCl preserved	C	N/A	5.4	Y	Absent	NYTCL-8260(14)
L1405863-02C	Vial HCl preserved	C	N/A	5.4	Y	Absent	NYTCL-8260(14)
L1405863-02D	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1405863-02E	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1405863-02F	Amber 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TPHENOL-420(28)
L1405863-02G	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-02H	Plastic 500ml unpreserved	C	7	5.4	Y	Absent	BOD-5210(2)
L1405863-02I	Plastic 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-02J	Amber 250ml unpreserved	C	7	5.4	Y	Absent	SALINITY(28)
L1405863-02K	Plastic 250ml NaOH preserved	C	>12	5.4	Y	Absent	TCN-9010(14)
L1405863-02L	Plastic 250ml unpreserved	C	N/A	5.4	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-02M	Plastic 500ml HNO3 preserved	C	<2	5.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-02N	Plastic 1000ml unpreserved	C	7	5.4	Y	Absent	ALK-T-2320(14),SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-03A	Vial HCl preserved	C	N/A	5.4	Y	Absent	NYTCL-8260(14)
L1405863-03B	Vial HCl preserved	C	N/A	5.4	Y	Absent	NYTCL-8260(14)
L1405863-03C	Vial HCl preserved	C	N/A	5.4	Y	Absent	NYTCL-8260(14)
L1405863-03D	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1405863-03E	Vial H2SO4 preserved	C	N/A	5.4	Y	Absent	TOC-5310(28)
L1405863-03F	Amber 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TPHENOL-420(28)
L1405863-03G	Plastic 250ml unpreserved	C	7	5.4	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-03H	Plastic 500ml unpreserved	C	7	5.4	Y	Absent	BOD-5210(2)
L1405863-03I	Plastic 500ml H2SO4 preserved	C	<2	5.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-03J	Amber 250ml unpreserved	C	7	5.4	Y	Absent	SALINITY(28)
L1405863-03K	Plastic 250ml NaOH preserved	C	>12	5.4	Y	Absent	TCN-9010(14)
L1405863-03L	Plastic 250ml unpreserved	C	N/A	5.4	Y	Absent	ALK-T-2320(14)
L1405863-03M	Plastic 500ml HNO3 preserved	C	<2	5.4	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-03N	Plastic 1000ml unpreserved	C	7	5.4	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-04A	Vial HCl preserved	D	N/A	5.1	Y	Absent	NYTCL-8260(14)
L1405863-04B	Vial HCl preserved	D	N/A	5.1	Y	Absent	NYTCL-8260(14)
L1405863-04C	Vial HCl preserved	D	N/A	5.1	Y	Absent	NYTCL-8260(14)
L1405863-04D	Vial H2SO4 preserved	D	N/A	5.1	Y	Absent	TOC-5310(28)
L1405863-04E	Vial H2SO4 preserved	D	N/A	5.1	Y	Absent	TOC-5310(28)
L1405863-04F	Amber 500ml H2SO4 preserved	D	<2	5.1	Y	Absent	TPHENOL-420(28)
L1405863-04G	Plastic 250ml unpreserved	D	7	5.1	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-04H	Plastic 500ml unpreserved	D	7	5.1	Y	Absent	BOD-5210(2)
L1405863-04I	Plastic 500ml H2SO4 preserved	D	<2	5.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-04J	Amber 250ml unpreserved	D	7	5.1	Y	Absent	SALINITY(28)
L1405863-04K	Plastic 250ml NaOH preserved	D	>12	5.1	Y	Absent	TCN-9010(14)
L1405863-04L	Plastic 250ml unpreserved	D	N/A	5.1	Y	Absent	ALK-T-2320(14)
L1405863-04M	Plastic 500ml HNO3 preserved	D	<2	5.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-04N	Plastic 1000ml unpreserved	D	7	5.1	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-05A	Vial HCl preserved	A	N/A	5.3	Y	Absent	NYTCL-8260(14)
L1405863-05B	Vial HCl preserved	A	N/A	5.3	Y	Absent	NYTCL-8260(14)
L1405863-05C	Vial HCl preserved	A	N/A	5.3	Y	Absent	NYTCL-8260(14)
L1405863-05D	Vial H2SO4 preserved	A	N/A	5.3	Y	Absent	TOC-5310(28)
L1405863-05E	Vial H2SO4 preserved	A	N/A	5.3	Y	Absent	TOC-5310(28)
L1405863-05F	Amber 500ml H2SO4 preserved	A	<2	5.3	Y	Absent	TPHENOL-420(28)
L1405863-05G	Plastic 250ml unpreserved	A	7	5.3	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-05H	Plastic 500ml unpreserved	A	7	5.3	Y	Absent	BOD-5210(2)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-05I	Plastic 500ml H2SO4 preserved	A	<2	5.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-05J	Amber 250ml unpreserved	A	7	5.3	Y	Absent	SALINITY(28)
L1405863-05K	Plastic 250ml NaOH preserved	A	>12	5.3	Y	Absent	TCN-9010(14)
L1405863-05L	Plastic 250ml unpreserved	A	N/A	5.3	Y	Absent	ALK-T-2320(14)
L1405863-05M	Plastic 500ml HNO3 preserved	A	<2	5.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-05N	Plastic 1000ml unpreserved	A	7	5.3	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-06A	Vial HCl preserved	A	N/A	5.3	Y	Absent	NYTCL-8260(14)
L1405863-06B	Vial HCl preserved	A	N/A	5.3	Y	Absent	NYTCL-8260(14)
L1405863-06C	Vial HCl preserved	A	N/A	5.3	Y	Absent	NYTCL-8260(14)
L1405863-06D	Vial H2SO4 preserved	A	N/A	5.3	Y	Absent	TOC-5310(28)
L1405863-06E	Vial H2SO4 preserved	A	N/A	5.3	Y	Absent	TOC-5310(28)
L1405863-06F	Amber 500ml H2SO4 preserved	A	<2	5.3	Y	Absent	TPHENOL-420(28)
L1405863-06G	Plastic 250ml unpreserved	A	7	5.3	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-06H	Plastic 500ml unpreserved	A	7	5.3	Y	Absent	BOD-5210(2)
L1405863-06I	Plastic 500ml H2SO4 preserved	A	<2	5.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-06J	Amber 250ml unpreserved	A	7	5.3	Y	Absent	SALINITY(28)
L1405863-06K	Plastic 250ml NaOH preserved	A	>12	5.3	Y	Absent	TCN-9010(14)
L1405863-06L	Plastic 250ml unpreserved	A	N/A	5.3	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-06M	Plastic 500ml HNO3 preserved	A	<2	5.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-06N	Plastic 1000ml unpreserved	A	7	5.3	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-07A	Vial HCl preserved	F	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1405863-07B	Vial HCl preserved	F	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1405863-07C	Vial HCl preserved	F	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1405863-07D	Vial H2SO4 preserved	F	N/A	4.8	Y	Absent	TOC-5310(28)
L1405863-07E	Vial H2SO4 preserved	F	N/A	4.8	Y	Absent	TOC-5310(28)
L1405863-07F	Amber 500ml H2SO4 preserved	F	<2	4.8	Y	Absent	TPHENOL-420(28)
L1405863-07G	Plastic 250ml unpreserved	F	7	4.8	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-07H	Plastic 500ml unpreserved	F	7	4.8	Y	Absent	BOD-5210(2)
L1405863-07I	Plastic 500ml H2SO4 preserved	F	<2	4.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-07J	Amber 250ml unpreserved	F	7	4.8	Y	Absent	SALINITY(28)
L1405863-07K	Plastic 250ml NaOH preserved	F	>12	4.8	Y	Absent	TCN-9010(14)
L1405863-07L	Plastic 250ml unpreserved	F	N/A	4.8	Y	Absent	ALK-T-2320(14)
L1405863-07M	Plastic 500ml HNO3 preserved	F	<2	4.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-07N	Plastic 1000ml unpreserved	F	7	4.8	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-08A	Vial HCl preserved	F	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1405863-08B	Vial HCl preserved	F	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1405863-08C	Vial HCl preserved	F	N/A	4.8	Y	Absent	NYTCL-8260(14)
L1405863-08D	Vial H2SO4 preserved	F	N/A	4.8	Y	Absent	TOC-5310(28)
L1405863-08E	Vial H2SO4 preserved	F	N/A	4.8	Y	Absent	TOC-5310(28)
L1405863-08F	Amber 500ml H2SO4 preserved	F	<2	4.8	Y	Absent	TPHENOL-420(28)
L1405863-08G	Plastic 250ml unpreserved	F	7	4.8	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-08H	Plastic 500ml unpreserved	F	7	4.8	Y	Absent	BOD-5210(2)
L1405863-08I	Plastic 500ml H2SO4 preserved	F	<2	4.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-08J	Amber 250ml unpreserved	F	7	4.8	Y	Absent	SALINITY(28)
L1405863-08K	Plastic 250ml NaOH preserved	F	>12	4.8	Y	Absent	TCN-9010(14)
L1405863-08L	Plastic 250ml unpreserved	F	N/A	4.8	Y	Absent	ALK-T-2320(14)
L1405863-08M	Plastic 500ml HNO3 preserved	F	<2	4.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-08N	Plastic 1000ml unpreserved	F	7	4.8	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-09A	Vial HCl preserved	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1405863-09B	Vial HCl preserved	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1405863-09C	Vial HCl preserved	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1405863-09D	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1405863-09E	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1405863-09F	Amber 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TPHENOL-420(28)
L1405863-09G	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-09H	Plastic 500ml unpreserved	B	7	4.9	Y	Absent	BOD-5210(2)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-09I	Plastic 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-09J	Amber 250ml unpreserved	B	7	4.9	Y	Absent	SALINITY(28)
L1405863-09K	Plastic 250ml NaOH preserved	B	>12	4.9	Y	Absent	TCN-9010(14)
L1405863-09L	Plastic 250ml unpreserved	B	N/A	4.9	Y	Absent	ALK-T-2320(14)
L1405863-09M	Plastic 500ml HNO3 preserved	B	<2	4.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-09N	Plastic 1000ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-10A	Vial HCl preserved	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1405863-10B	Vial HCl preserved	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1405863-10C	Vial HCl preserved	B	N/A	4.9	Y	Absent	NYTCL-8260(14)
L1405863-10D	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1405863-10E	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1405863-10F	Amber 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TPHENOL-420(28)
L1405863-10G	Plastic 250ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-10H	Plastic 500ml unpreserved	B	7	4.9	Y	Absent	BOD-5210(2)
L1405863-10I	Plastic 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-10J	Amber 250ml unpreserved	B	7	4.9	Y	Absent	SALINITY(28)
L1405863-10K	Plastic 250ml NaOH preserved	B	>12	4.9	Y	Absent	TCN-9010(14)
L1405863-10L	Plastic 250ml unpreserved	B	N/A	4.9	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-10M	Plastic 500ml HNO3 preserved	B	<2	4.9	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-10N	Plastic 1000ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-11A	Vial HCl preserved	E	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1405863-11B	Vial HCl preserved	E	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1405863-11C	Vial HCl preserved	E	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1405863-11D	Vial H2SO4 preserved	E	N/A	4.2	Y	Absent	TOC-5310(28)
L1405863-11E	Vial H2SO4 preserved	E	N/A	4.2	Y	Absent	TOC-5310(28)
L1405863-11F	Amber 500ml H2SO4 preserved	E	<2	4.2	Y	Absent	TPHENOL-420(28)
L1405863-11G	Plastic 250ml unpreserved	E	7	4.2	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-11H	Plastic 500ml unpreserved	E	7	4.2	Y	Absent	BOD-5210(2)
L1405863-11I	Plastic 500ml H2SO4 preserved	E	<2	4.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-11J	Amber 250ml unpreserved	E	7	4.2	Y	Absent	SALINITY(28)
L1405863-11K	Plastic 250ml NaOH preserved	E	>12	4.2	Y	Absent	TCN-9010(14)
L1405863-11L	Plastic 250ml unpreserved	E	N/A	4.2	Y	Absent	ALK-T-2320(14)
L1405863-11M	Plastic 500ml HNO3 preserved	E	<2	4.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-11N	Plastic 1000ml unpreserved	E	7	4.2	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-12A	Vial HCl preserved	E	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1405863-12B	Vial HCl preserved	E	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1405863-12C	Vial HCl preserved	E	N/A	4.2	Y	Absent	NYTCL-8260(14)
L1405863-12D	Vial H2SO4 preserved	E	N/A	4.2	Y	Absent	TOC-5310(28)
L1405863-12E	Vial H2SO4 preserved	E	N/A	4.2	Y	Absent	TOC-5310(28)
L1405863-12F	Amber 500ml H2SO4 preserved	E	<2	4.2	Y	Absent	TPHENOL-420(28)
L1405863-12G	Plastic 250ml unpreserved	E	7	4.2	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-12H	Plastic 500ml unpreserved	E	7	4.2	Y	Absent	BOD-5210(2)
L1405863-12I	Plastic 500ml H2SO4 preserved	E	<2	4.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-12J	Amber 250ml unpreserved	E	7	4.2	Y	Absent	SALINITY(28)
L1405863-12K	Plastic 250ml NaOH preserved	E	>12	4.2	Y	Absent	TCN-9010(14)
L1405863-12L	Plastic 250ml unpreserved	E	N/A	4.2	Y	Absent	ALK-T-2320(14)
L1405863-12M	Plastic 500ml HNO3 preserved	E	<2	4.2	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-12N	Plastic 1000ml unpreserved	E	7	4.2	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-13A	Vial HCl preserved	D	N/A	5.1	Y	Absent	NYTCL-8260(14)
L1405863-13B	Vial HCl preserved	D	N/A	5.1	Y	Absent	NYTCL-8260(14)
L1405863-13C	Vial HCl preserved	D	N/A	5.1	Y	Absent	NYTCL-8260(14)
L1405863-13D	Vial H2SO4 preserved	D	N/A	5.1	Y	Absent	TOC-5310(28)
L1405863-13E	Vial H2SO4 preserved	D	N/A	5.1	Y	Absent	TOC-5310(28)
L1405863-13F	Amber 500ml H2SO4 preserved	D	<2	5.1	Y	Absent	TPHENOL-420(28)
L1405863-13G	Plastic 250ml unpreserved	D	7	5.1	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)
L1405863-13H	Plastic 500ml unpreserved	D	7	5.1	Y	Absent	BOD-5210(2)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405863-13I	Plastic 500ml H2SO4 preserved	D	<2	5.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405863-13J	Amber 250ml unpreserved	D	7	5.1	Y	Absent	SALINITY(28)
L1405863-13K	Plastic 250ml NaOH preserved	D	>12	5.1	Y	Absent	TCN-9010(14)
L1405863-13L	Plastic 250ml unpreserved	D	N/A	5.1	Y	Absent	ALK-T-2320(14)
L1405863-13M	Plastic 500ml HNO3 preserved	D	<2	5.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405863-13N	Plastic 1000ml unpreserved	D	7	5.1	Y	Absent	SO4-300(28),CL-300(28),HEXCR-7196(1),COLOR-A-2120(2),BR-300(28),NO3-353(2),TDS-2540(7)

Container Comments

L1405863-02G

L1405863-02M

L1405863-03G

L1405863-03M

L1405863-04G

L1405863-04M

L1405863-05G

L1405863-05M

L1405863-06G

L1405863-06M

L1405863-07G

L1405863-07M

L1405863-08G

L1405863-08M

L1405863-09G

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405863
Report Date: 04/01/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)

Container Comments

L1405863-09M

L1405863-10G

L1405863-10M

L1405863-11G

L1405863-11M

L1405863-12G

L1405863-12M

L1405863-13G

L1405863-13M

*Values in parentheses indicate holding time in days

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405863
Project Number:	08.8696	**Report Date:**	04/01/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405863
Project Number:	08.8696	**Report Date:**	04/01/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT BRINE PONDS **Lab Number:** L1405863
Project Number: 08.8696 **Report Date:** 04/01/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Date Rec'd in Lab: 3/20/14

ALPHA Job #: L1465863

Client Information
Client: C.T. Male Associates
Address: 50 Century Hill Drive
Latham NY 12110
Phone: 518 786 7400
Fax:
Email: K.moline@ctmale.com

Project Information
Project Name: US Salt Brine Ponds
Project Location: T/o Reading, NY
Project # 08.8696
(Use Project name as Project #) ☐
Project Manager: Kirk Moline
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: 3/27/14
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Baseline	Salinity	VOCs						Sample Specific Comments	Total Bottle
05863.01	Trip Blank							X							
.02	MW-53	3/20/14	0845	GW	SB	X	X								
.03	MW-52	3/20/14	0915	GW	SB	X	X								
.04	MW-44	3/20/14	1015	GW	SB	X	X								
.05	MW-43	3/20/14	1050	GW	SB	X	X								
.06	MW-45	3/20/14	1115	GW	SB	X	X								
.07	MW-42	3/20/14	1145	GW	SB	X	X								
.08	MW-46	3/20/14	1210	GW	SB	X	X								
.09	MW-41	3/20/14	1340	GW	SB	X	X								
.10	MW-47	3/20/14	1410	GW	SB	X	X								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	3/20/14 17:15	[illegible]	3-20-14 17:15
[illegible]	3/20/14 21:30	[illegible]	3-20-14 21:30
[illegible]	3-20-14 23:59	[illegible]	3/20/14 23:59

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 3/20/14

ALPHA Job #: L1405863

Client Information
Client: C.T. Male Associates
Address: 50 Century Hill Drive
Latham NY 12110
Phone: 518 786 7400
Fax:
Email: K.moline@ctmale.com

Project Information
Project Name: US Salt Brine Ponds
Project Location: T/o Reading, NY
Project # 08.8696
(Use Project name as Project #) ☐
Project Manager: Kirk Moline
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date: 3/27/14
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Baseline	Salinity							Total Bottle	Sample Specific Comments
05863 .11	MW-40	3/20/14	14:30	GW	SB	✓	✓								
.12	MW-48	3/20/14	15:10	GW	SB	✓	✓								
.13	MW-50	3/20/14	15:40	GW	SB	✓	✓								

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	3/20/14 17:15	[illegible]	3-20-14 17:15
[illegible]	3-20-14 21:30	[illegible]	3-20-14 21:30
[illegible]	3-20-14 23:59	[illegible]	3/20/14 23:59

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1405744
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT BRINE PONDS
Project Number:	08.8696
Report Date:	04/02/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1405744-01	MW-51	T/O READING, NY	03/19/14 09:30
L1405744-02	MW-58	T/O READING, NY	03/19/14 10:20
L1405744-03	MW-57	T/O READING, NY	03/19/14 11:20
L1405744-04	MW-55	T/O READING, NY	03/19/14 12:15
L1405744-05	MW-56A	T/O READING, NY	03/19/14 13:55
L1405744-06	MW-54A	T/O READING, NY	03/19/14 14:45
L1405744-07	TRIP BLANK	T/O READING, NY	03/19/14 00:00

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744
Project Number: 08.8696 **Report Date:** 04/02/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405744
Project Number:	08.8696	**Report Date:**	04/02/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

The WG678977-4 MS recovery, performed on L1405744-01, is outside the acceptance criteria for calcium (70%). A post digestion spike was performed and was within acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 04/02/14

ORGANICS

VOLATILES

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID:	L1405744-01	Date Collected:	03/19/14 09:30
Client ID:	MW-51	Date Received:	03/19/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 00:26		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.6		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-01 Date Collected: 03/19/14 09:30

Client ID: MW-51 Date Received: 03/19/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID:	L1405744-02	Date Collected:	03/19/14 10:20
Client ID:	MW-58	Date Received:	03/19/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 01:02		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	25		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-02 Date Collected: 03/19/14 10:20

Client ID: MW-58 Date Received: 03/19/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID:	L1405744-03	Date Collected:	03/19/14 11:20
Client ID:	MW-57	Date Received:	03/19/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 01:38		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	20		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-03 Date Collected: 03/19/14 11:20

Client ID: MW-57 Date Received: 03/19/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID:	L1405744-04	Date Collected:	03/19/14 12:15
Client ID:	MW-55	Date Received:	03/19/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 02:14		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	27		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-04 Date Collected: 03/19/14 12:15

Client ID: MW-55 Date Received: 03/19/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID:	L1405744-05	Date Collected:	03/19/14 13:55
Client ID:	MW-56A	Date Received:	03/19/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 02:51		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	27		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-05 Date Collected: 03/19/14 13:55

Client ID: MW-56A Date Received: 03/19/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID:	L1405744-06	Date Collected:	03/19/14 14:45
Client ID:	MW-54A	Date Received:	03/19/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/02/14 03:26		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	29		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-06 Date Collected: 03/19/14 14:45

Client ID: MW-54A Date Received: 03/19/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID:	L1405744-07	Date Collected:	03/19/14 00:00
Client ID:	TRIP BLANK	Date Received:	03/19/14
Sample Location:	T/O READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	04/01/14 23:50		
Analyst:	MS		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.17	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-07 Date Collected: 03/19/14 00:00

Client ID: TRIP BLANK Date Received: 03/19/14

Sample Location: T/O READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.0	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.0	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	95		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/01/14 23:14
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG679643-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.17
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 04/01/14 23:14
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG679643-3					
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.0
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.0
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG679643-1 WG679643-2								
Methylene chloride	94		84		70-130	11		20
1,1-Dichloroethane	97		89		70-130	9		20
Chloroform	98		90		70-130	9		20
2-Chloroethylvinyl ether	77		72		70-130	7		20
Carbon tetrachloride	90		85		63-132	6		20
1,2-Dichloropropane	96		90		70-130	6		20
Dibromochloromethane	87		81		63-130	7		20
1,1,2-Trichloroethane	96		89		70-130	8		20
Tetrachloroethene	93		86		70-130	8		20
Chlorobenzene	94		87		75-130	8		20
Trichlorofluoromethane	97		90		62-150	7		20
1,2-Dichloroethane	100		90		70-130	11		20
1,1,1-Trichloroethane	93		88		67-130	6		20
Bromodichloromethane	92		87		67-130	6		20
trans-1,3-Dichloropropene	92		84		70-130	9		20
cis-1,3-Dichloropropene	93		84		70-130	10		20
1,1-Dichloropropene	94		86		70-130	9		20
Bromoform	80		77		54-136	4		20
1,1,2,2-Tetrachloroethane	96		88		67-130	9		20
Benzene	97		89		70-130	9		20
Toluene	95		88		70-130	8		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG679643-1 WG679643-2								
Ethylbenzene	98		90		70-130	9		20
Chloromethane	80		77		64-130	4		20
Bromomethane	114		118		39-139	3		20
Vinyl chloride	96		81		55-140	17		20
Chloroethane	102		86		55-138	17		20
1,1-Dichloroethene	94		87		61-145	8		20
trans-1,2-Dichloroethene	94		85		70-130	10		20
Trichloroethene	96		87		70-130	10		20
1,2-Dichlorobenzene	92		85		70-130	8		20
1,3-Dichlorobenzene	92		87		70-130	6		20
1,4-Dichlorobenzene	92		85		70-130	8		20
Methyl tert butyl ether	94		87		63-130	8		20
p/m-Xylene	92		85		70-130	8		20
o-Xylene	92		87		70-130	6		20
cis-1,2-Dichloroethene	100		86		70-130	15		20
Dibromomethane	96		85		70-130	12		20
1,2,3-Trichloropropane	100		91		64-130	9		20
Acrylonitrile	100		90		70-130	11		20
Isopropyl Ether	96		87		70-130	10		20
tert-Butyl Alcohol	89		81		70-130	9		20
Styrene	97		89		70-130	9		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG679643-1 WG679643-2								
Dichlorodifluoromethane	88		81		36-147	8		20
Acetone	82		74		58-148	10		20
Carbon disulfide	95		83		51-130	13		20
2-Butanone	94		83		63-138	12		20
Vinyl acetate	87		79		70-130	10		20
4-Methyl-2-pentanone	91		81		59-130	12		20
2-Hexanone	96		87		57-130	10		20
Acrolein	84		75		40-160	11		20
Bromochloromethane	99		90		70-130	10		20
2,2-Dichloropropane	90		82		63-133	9		20
1,2-Dibromoethane	94		86		70-130	9		20
1,3-Dichloropropane	97		90		70-130	7		20
1,1,1,2-Tetrachloroethane	92		86		64-130	7		20
Bromobenzene	94		88		70-130	7		20
n-Butylbenzene	96		87		53-136	10		20
sec-Butylbenzene	98		89		70-130	10		20
tert-Butylbenzene	94		87		70-130	8		20
o-Chlorotoluene	98		90		70-130	9		20
p-Chlorotoluene	98		90		70-130	9		20
1,2-Dibromo-3-chloropropane	84		79		41-144	6		20
Hexachlorobutadiene	93		81		63-130	14		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG679643-1 WG679643-2								
Isopropylbenzene	97		88		70-130	10		20
p-Isopropyltoluene	96		87		70-130	10		20
Naphthalene	87		80		70-130	8		20
n-Propylbenzene	100		92		69-130	8		20
1,2,3-Trichlorobenzene	91		84		70-130	8		20
1,2,4-Trichlorobenzene	90		84		70-130	7		20
1,3,5-Trimethylbenzene	98		90		64-130	9		20
1,2,4-Trimethylbenzene	99		91		70-130	8		20
Methyl Acetate	94		76		70-130	**21**	Q	20
Ethyl Acetate	98		86		70-130	13		20
Cyclohexane	92		86		70-130	7		20
Ethyl-Tert-Butyl-Ether	95		87		70-130	9		20
Tertiary-Amyl Methyl Ether	93		84		66-130	10		20
1,4-Dioxane	92		82		56-162	11		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	99		88		70-130	12		20
1,4-Diethylbenzene	94		85		70-130	10		20
4-Ethyltoluene	100		91		70-130	9		20
1,2,4,5-Tetramethylbenzene	93		85		70-130	9		20
Ethyl ether	98		88		59-134	11		20
trans-1,4-Dichloro-2-butene	87		79		70-130	10		20
Iodomethane	71		76		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG679643-1 WG679643-2								
Methyl cyclohexane	97		86		70-130	12		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	100		102		70-130
4-Bromofluorobenzene	105		101		70-130
Dibromofluoromethane	101		103		70-130

METALS

Project Name: US SALT BRINE PONDS
Lab Number: L1405744
Project Number: 08.8696
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-01
Client ID: MW-51
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 09:30
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0183		mg/l	0.0100	0.00200	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Antimony, Total	0.00062	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00045	J	mg/l	0.00050	0.00020	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Barium, Total	0.02674		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Boron, Total	0.126		mg/l	0.0300	0.0070	1	03/31/14 08:18	03/31/14 12:48	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Calcium, Total	35.		mg/l	0.10	0.030	1	03/31/14 08:18	03/31/14 12:48	EPA 3005A	1,6010C	TT
Chromium, Total	0.00066	J	mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Copper, Total	0.00038	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Iron, Total	0.0706		mg/l	0.0500	0.0130	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Magnesium, Total	22.		mg/l	0.10	0.010	1	03/31/14 08:18	03/31/14 12:48	EPA 3005A	1,6010C	TT
Manganese, Total	0.00524		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/20/14 09:05	03/20/14 13:10	EPA 7470A	1,7470A	AK
Nickel, Total	0.00058		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Potassium, Total	7.12		mg/l	0.100	0.0270	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Selenium, Total	0.00032	J	mg/l	0.00500	0.00030	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Sodium, Total	18.2		mg/l	0.100	0.0150	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	03/31/14 08:18	03/31/14 18:28	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	03/31/14 08:18	03/31/14 12:48	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405744
Project Number: 08.8696
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-02
Client ID: MW-58
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 10:20
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0423		mg/l	0.0100	0.00200	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Antimony, Total	0.00018	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Arsenic, Total	0.01465		mg/l	0.00050	0.00020	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Barium, Total	0.04497		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Boron, Total	0.102		mg/l	0.0300	0.0070	1	03/31/14 08:18	03/31/14 13:16	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Calcium, Total	64.		mg/l	0.10	0.030	1	03/31/14 08:18	03/31/14 13:16	EPA 3005A	1,6010C	TT
Chromium, Total	0.00064	J	mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00014	J	mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Copper, Total	0.00056	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Iron, Total	0.418		mg/l	0.0500	0.0130	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Magnesium, Total	20.		mg/l	0.10	0.010	1	03/31/14 08:18	03/31/14 13:16	EPA 3005A	1,6010C	TT
Manganese, Total	0.04266		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/20/14 09:05	03/20/14 13:12	EPA 7470A	1,7470A	AK
Nickel, Total	0.00134		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Potassium, Total	1.74		mg/l	0.100	0.0270	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Sodium, Total	14.0		mg/l	0.100	0.0150	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Zinc, Total	0.00190	J	mg/l	0.01000	0.00120	1	03/31/14 08:18	03/31/14 19:16	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	240		mg/l	0.66	NA	1	03/31/14 08:18	03/31/14 13:16	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405744
Project Number: 08.8696
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-03
Client ID: MW-57
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 11:20
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0578		mg/l	0.0100	0.00200	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Antimony, Total	0.00028	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00455		mg/l	0.00050	0.00020	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Barium, Total	0.05974		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Boron, Total	0.0541		mg/l	0.0300	0.0070	1	03/31/14 08:18	03/31/14 13:20	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00008	J	mg/l	0.00020	0.00005	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Calcium, Total	57.		mg/l	0.10	0.030	1	03/31/14 08:18	03/31/14 13:20	EPA 3005A	1,6010C	TT
Chromium, Total	0.00067	J	mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00050		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Copper, Total	0.00047	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Iron, Total	0.122		mg/l	0.0500	0.0130	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Magnesium, Total	18.		mg/l	0.10	0.010	1	03/31/14 08:18	03/31/14 13:20	EPA 3005A	1,6010C	TT
Manganese, Total	0.06448		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/20/14 09:05	03/20/14 13:14	EPA 7470A	1,7470A	AK
Nickel, Total	0.00097		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Potassium, Total	2.72		mg/l	0.100	0.0270	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Selenium, Total	0.00033	J	mg/l	0.00500	0.00030	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Sodium, Total	10.6		mg/l	0.100	0.0150	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00036	J	mg/l	0.00500	0.00010	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Zinc, Total	0.00152	J	mg/l	0.01000	0.00120	1	03/31/14 08:18	03/31/14 19:22	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	220		mg/l	0.66	NA	1	03/31/14 08:18	03/31/14 13:20	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405744
Project Number: 08.8696
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-04
Client ID: MW-55
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 12:15
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.446		mg/l	0.100	0.0200	10	03/31/14 08:18	03/31/14 19:35	EPA 3005A	1,6020A	BM
Antimony, Total	0.00023	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00499		mg/l	0.00050	0.00020	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Barium, Total	0.03034		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Boron, Total	0.0309		mg/l	0.0300	0.0070	1	03/31/14 08:18	03/31/14 13:24	EPA 3005A	1,6010C	TT
Cadmium, Total	0.00006	J	mg/l	0.00020	0.00005	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Calcium, Total	39.		mg/l	0.10	0.030	1	03/31/14 08:18	03/31/14 13:24	EPA 3005A	1,6010C	TT
Chromium, Total	0.00150		mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00047	J	mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Copper, Total	0.00114		mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Iron, Total	0.818		mg/l	0.0500	0.0130	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Lead, Total	0.00047	J	mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Magnesium, Total	12.		mg/l	0.10	0.010	1	03/31/14 08:18	03/31/14 13:24	EPA 3005A	1,6010C	TT
Manganese, Total	0.08596		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/20/14 09:05	03/20/14 13:16	EPA 7470A	1,7470A	AK
Nickel, Total	0.00149		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Potassium, Total	5.53		mg/l	0.100	0.0270	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Sodium, Total	8.24		mg/l	0.100	0.0150	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00053	J	mg/l	0.00500	0.00010	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Zinc, Total	0.00372	J	mg/l	0.01000	0.00120	1	03/31/14 08:18	03/31/14 19:29	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	140		mg/l	0.66	NA	1	03/31/14 08:18	03/31/14 13:24	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405744
Project Number: 08.8696
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-05
Client ID: MW-56A
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 13:55
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.191		mg/l	0.0100	0.00200	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Antimony, Total	0.00011	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00398		mg/l	0.00050	0.00020	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Barium, Total	0.1256		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Boron, Total	0.197		mg/l	0.0300	0.0070	1	03/31/14 08:18	03/31/14 13:28	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Calcium, Total	42.		mg/l	0.10	0.030	1	03/31/14 08:18	03/31/14 13:28	EPA 3005A	1,6010C	TT
Chromium, Total	0.00093	J	mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Cobalt, Total	0.00019	J	mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Copper, Total	0.00044	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Iron, Total	0.463		mg/l	0.0500	0.0130	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Lead, Total	0.00021	J	mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Magnesium, Total	12.		mg/l	0.10	0.010	1	03/31/14 08:18	03/31/14 13:28	EPA 3005A	1,6010C	TT
Manganese, Total	0.06257		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/20/14 09:05	03/20/14 13:17	EPA 7470A	1,7470A	AK
Nickel, Total	0.00086		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Potassium, Total	2.18		mg/l	0.100	0.0270	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Selenium, Total	0.00033	J	mg/l	0.00500	0.00030	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Sodium, Total	23.0		mg/l	0.100	0.0150	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Vanadium, Total	0.00019	J	mg/l	0.00500	0.00010	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Zinc, Total	0.00244	J	mg/l	0.01000	0.00120	1	03/31/14 08:18	03/31/14 19:54	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	160		mg/l	0.66	NA	1	03/31/14 08:18	03/31/14 13:28	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS
Lab Number: L1405744
Project Number: 08.8696
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-06
Client ID: MW-54A
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 14:45
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Aluminum, Total	0.0909		mg/l	0.0100	0.00200	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Arsenic, Total	0.00147		mg/l	0.00050	0.00020	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Barium, Total	0.1075		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Boron, Total	0.180		mg/l	0.0300	0.0070	1	03/31/14 08:18	03/31/14 13:31	EPA 3005A	1,6010C	TT
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Calcium, Total	24.		mg/l	0.10	0.030	1	03/31/14 08:18	03/31/14 13:31	EPA 3005A	1,6010C	TT
Chromium, Total	0.00114		mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Copper, Total	0.00028	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Iron, Total	0.208		mg/l	0.0500	0.0130	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Magnesium, Total	12.		mg/l	0.10	0.010	1	03/31/14 08:18	03/31/14 13:31	EPA 3005A	1,6010C	TT
Manganese, Total	0.01934		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/20/14 09:05	03/20/14 13:19	EPA 7470A	1,7470A	AK
Nickel, Total	0.00083		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Potassium, Total	6.29		mg/l	0.100	0.0270	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Sodium, Total	22.6		mg/l	0.100	0.0150	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Zinc, Total	0.00141	J	mg/l	0.01000	0.00120	1	03/31/14 08:18	03/31/14 20:00	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	110		mg/l	0.66	NA	1	03/31/14 08:18	03/31/14 13:31	EPA 3005A	1,6010C	TT

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG676685-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	03/20/14 09:05	03/20/14 12:20	1,7470A	AK

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG678975-1										
Aluminum, Total	ND		mg/l	0.0100	0.00200	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Antimony, Total	ND		mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Arsenic, Total	ND		mg/l	0.00050	0.00020	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Barium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Chromium, Total	0.00032	J	mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Cobalt, Total	ND		mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Copper, Total	0.00013	J	mg/l	0.00100	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Iron, Total	ND		mg/l	0.0500	0.0130	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Lead, Total	ND		mg/l	0.00100	0.00020	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Manganese, Total	0.00015	J	mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Nickel, Total	0.00011	J	mg/l	0.00050	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Potassium, Total	ND		mg/l	0.100	0.0270	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Selenium, Total	ND		mg/l	0.00500	0.00030	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Silver, Total	ND		mg/l	0.00040	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Sodium, Total	ND		mg/l	0.100	0.0150	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Thallium, Total	ND		mg/l	0.00050	0.00003	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Vanadium, Total	ND		mg/l	0.00500	0.00010	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM
Zinc, Total	ND		mg/l	0.01000	0.00120	1	03/31/14 08:18	03/31/14 17:42	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-06 Batch: WG678977-1										
Boron, Total	ND		mg/l	0.0300	0.0070	1	03/31/14 08:18	03/31/14 12:40	1,6010C	TT
Calcium, Total	ND		mg/l	0.10	0.030	1	03/31/14 08:18	03/31/14 12:40	1,6010C	TT
Magnesium, Total	ND		mg/l	0.10	0.010	1	03/31/14 08:18	03/31/14 12:40	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-06 Batch: WG678977-1										
Hardness	ND		mg/l	0.66	NA	1	03/31/14 08:18	03/31/14 12:40	1,6010C	TT

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT BRINE PONDS

Project Number: 08.8696

Lab Number: L1405744

Report Date: 04/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG676685-2								
Mercury, Total	101		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG678975-2					
Aluminum, Total	99	-	80-120	-	
Antimony, Total	98	-	80-120	-	
Arsenic, Total	99	-	80-120	-	
Barium, Total	96	-	80-120	-	
Beryllium, Total	88	-	80-120	-	
Cadmium, Total	106	-	80-120	-	
Chromium, Total	94	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	101	-	80-120	-	
Iron, Total	94	-	80-120	-	
Lead, Total	101	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Potassium, Total	99	-	80-120	-	
Selenium, Total	102	-	80-120	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	105	-	80-120	-	
Thallium, Total	93	-	80-120	-	
Vanadium, Total	94	-	80-120	-	
Zinc, Total	100	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 Batch: WG678977-2					
Boron, Total	98	-	80-120	-	
Calcium, Total	92	-	80-120	-	
Magnesium, Total	98	-	80-120	-	
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-06 Batch: WG678977-2					
Hardness	95	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676685-3 WG676685-4 QC Sample: L1405637-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00523	105		0.00530	106		75-125	1		20
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676685-5 WG676685-6 QC Sample: L1405637-05 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00069	**14**	Q	0.00068	**14**	Q	75-125	1		20
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676685-7 WG676685-8 QC Sample: L1405742-02 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00474	95		0.00474	95		75-125	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678975-4 QC Sample: L1405744-01 Client ID: MW-51									
Aluminum, Total	0.0183	2	2.03	100	-	-	75-125	-	20
Antimony, Total	0.00062J	0.5	0.5247	105	-	-	75-125	-	20
Arsenic, Total	0.00045J	0.12	0.1229	102	-	-	75-125	-	20
Barium, Total	0.02674	2	1.968	97	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.04644	93	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.05442	107	-	-	75-125	-	20
Chromium, Total	0.00066J	0.2	0.1927	96	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.4980	100	-	-	75-125	-	20
Copper, Total	0.00038J	0.25	0.2558	102	-	-	75-125	-	20
Iron, Total	0.0706	1	0.986	92	-	-	75-125	-	20
Lead, Total	ND	0.51	0.5165	101	-	-	75-125	-	20
Manganese, Total	0.00524	0.5	0.4896	97	-	-	75-125	-	20
Nickel, Total	0.00058	0.5	0.5040	101	-	-	75-125	-	20
Potassium, Total	7.12	10	16.8	97	-	-	75-125	-	20
Selenium, Total	0.00032J	0.12	0.128	107	-	-	75-125	-	20
Silver, Total	ND	0.05	0.04958	99	-	-	75-125	-	20
Sodium, Total	18.2	10	28.1	99	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.1130	94	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.4753	95	-	-	75-125	-	20
Zinc, Total	ND	0.5	0.4884	98	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678977-4 QC Sample: L1405744-01 Client ID: MW-51										
Boron, Total	0.126	1	1.13	100		-	-	75-125	-	20
Calcium, Total	35.	10	42	**70**	Q	-	-	75-125	-	20
Magnesium, Total	22.	10	31	90		-	-	75-125	-	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678977-4 QC Sample: L1405744-01 Client ID: MW-51										
Hardness	180	66.2	230	76		-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678975-3 QC Sample: L1405744-01 Client ID: MW-51						
Aluminum, Total	0.0183	0.0194	mg/l	6		20
Antimony, Total	0.00062J	0.00024J	mg/l	NC		20
Arsenic, Total	0.00045J	0.00033J	mg/l	NC		20
Barium, Total	0.02674	0.02693	mg/l	1		20
Beryllium, Total	ND	ND	mg/l	NC		20
Cadmium, Total	ND	ND	mg/l	NC		20
Chromium, Total	0.00066J	0.00078J	mg/l	NC		20
Cobalt, Total	ND	ND	mg/l	NC		20
Copper, Total	0.00038J	0.00046J	mg/l	NC		20
Iron, Total	0.0706	0.0735	mg/l	4		20
Lead, Total	ND	ND	mg/l	NC		20
Manganese, Total	0.00524	0.00544	mg/l	4		20
Nickel, Total	0.00058	0.00057	mg/l	2		20
Potassium, Total	7.12	7.23	mg/l	2		20
Selenium, Total	0.00032J	ND	mg/l	NC		20
Silver, Total	ND	ND	mg/l	NC		20
Sodium, Total	18.2	18.7	mg/l	3		20
Thallium, Total	ND	ND	mg/l	NC		20
Vanadium, Total	ND	ND	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678975-3 QC Sample: L1405744-01 Client ID: MW-51					
Zinc, Total	ND	0.00131J	mg/l	NC	20
Total Metals - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678977-3 QC Sample: L1405744-01 Client ID: MW-51					
Boron, Total	0.126	0.126	mg/l	0	20
Calcium, Total	35.	35	mg/l	0	20
Magnesium, Total	22.	22	mg/l	0	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678977-3 QC Sample: L1405744-01 Client ID: MW-51					
Hardness	180	180	mg/l	0	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-01
Client ID: MW-51
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 09:30
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	5.0		A.P.C.U.	5.0	5.0	1	-	03/20/14 03:55	30,2120B	EL
Alkalinity, Total	156.		mg CaCO3/L	2.00	NA	1	-	03/27/14 12:15	30,2320B	JT
SALINITY	ND		SU	2.0	2.0	1	-	03/20/14 03:20	30,2520B	EL
Solids, Total Dissolved	210		mg/l	10	3.6	1	-	03/25/14 16:00	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/27/14 08:10	03/27/14 17:14	1,9010C/9012B	JO
Nitrogen, Ammonia	0.360		mg/l	0.075	0.021	1	03/28/14 12:32	03/31/14 22:23	44,350.1	AT
Nitrogen, Nitrate	0.066	J	mg/l	0.10	0.021	1	-	03/20/14 15:58	44,353.2	JO
Nitrogen, Total Kjeldahl	0.51		mg/l	0.30	0.093	1	03/29/14 22:05	03/31/14 21:18	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.2	J	mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/20/14 19:50	03/25/14 14:00	30,5210B	SE
Total Organic Carbon	2.32		mg/l	1.00	0.236	2	-	04/01/14 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/31/14 14:00	03/31/14 16:49	4,420.1	TE
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/20/14 02:55	03/20/14 03:12	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/20/14 20:56	44,300.0	AU
Chloride	2.56		mg/l	0.500	0.168	1	-	03/20/14 20:56	44,300.0	AU
Sulfate	55.4		mg/l	1.00	0.229	1	-	03/20/14 20:56	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-02
Client ID: MW-58
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 10:20
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	15		A.P.C.U.	5.0	5.0	1	-	03/20/14 03:55	30,2120B	EL
Alkalinity, Total	244.		mg CaCO3/L	2.00	NA	1	-	03/27/14 12:15	30,2320B	JT
SALINITY	ND		SU	2.0	2.0	1	-	03/20/14 03:20	30,2520B	EL
Solids, Total Dissolved	310		mg/l	10	3.6	1	-	03/25/14 16:00	30,2540C	SD
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/28/14 13:50	03/31/14 14:14	1,9010C/9012B	JO
Nitrogen, Ammonia	0.151		mg/l	0.075	0.021	1	03/28/14 12:32	03/31/14 22:23	44,350.1	AT
Nitrogen, Nitrate	0.058	J	mg/l	0.10	0.021	1	-	03/20/14 15:59	44,353.2	JO
Nitrogen, Total Kjeldahl	0.27	J	mg/l	0.30	0.093	1	03/29/14 22:05	03/31/14 21:19	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/20/14 19:50	03/25/14 14:00	30,5210B	SE
Total Organic Carbon	1.21		mg/l	1.00	0.236	2	-	04/01/14 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/31/14 16:00	03/31/14 19:28	4,420.1	TE
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/20/14 02:55	03/20/14 03:12	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/20/14 21:08	44,300.0	AU
Chloride	2.51		mg/l	0.500	0.168	1	-	03/20/14 21:08	44,300.0	AU
Sulfate	46.0		mg/l	1.00	0.229	1	-	03/20/14 21:08	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-03
Client ID: MW-57
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 11:20
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	03/20/14 03:55	30,2120B	EL
Alkalinity, Total	219.		mg CaCO3/L	2.00	NA	1	-	03/27/14 12:15	30,2320B	JT
SALINITY	ND		SU	2.0	2.0	1	-	03/20/14 03:20	30,2520B	EL
Solids, Total Dissolved	300		mg/l	10	3.6	1	-	03/25/14 16:00	30,2540C	SD
Cyanide, Total	0.008		mg/l	0.005	0.001	1	03/27/14 15:30	03/31/14 14:45	1,9010C/9012B	JO
Nitrogen, Ammonia	0.113		mg/l	0.075	0.021	1	03/28/14 12:32	03/31/14 22:24	44,350.1	AT
Nitrogen, Nitrate	0.099	J	mg/l	0.10	0.021	1	-	03/20/14 15:59	44,353.2	JO
Nitrogen, Total Kjeldahl	0.23	J	mg/l	0.30	0.093	1	03/29/14 22:05	03/31/14 21:20	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	4.4	J	mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/20/14 19:50	03/25/14 14:00	30,5210B	SE
Total Organic Carbon	1.25		mg/l	1.00	0.236	2	-	04/01/14 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	04/01/14 10:30	04/01/14 16:07	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/20/14 02:55	03/20/14 03:12	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/20/14 21:20	44,300.0	AU
Chloride	4.19		mg/l	0.500	0.168	1	-	03/20/14 21:20	44,300.0	AU
Sulfate	46.0		mg/l	1.00	0.229	1	-	03/20/14 21:20	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-04
Client ID: MW-55
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 12:15
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	03/20/14 03:55	30,2120B	EL
Alkalinity, Total	148.		mg CaCO3/L	2.00	NA	1	-	03/27/14 12:15	30,2320B	JT
SALINITY	ND		SU	2.0	2.0	1	-	03/20/14 03:20	30,2520B	EL
Solids, Total Dissolved	220		mg/l	10	3.6	1	-	03/25/14 16:00	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/27/14 15:30	03/31/14 15:34	1,9010C/9012B	JO
Nitrogen, Ammonia	0.065	J	mg/l	0.075	0.021	1	03/28/14 12:32	03/31/14 22:25	44,350.1	AT
Nitrogen, Nitrate	0.068	J	mg/l	0.10	0.021	1	-	03/20/14 16:00	44,353.2	JO
Nitrogen, Total Kjeldahl	0.25	J	mg/l	0.30	0.093	1	03/29/14 22:05	03/31/14 21:21	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.2	J	mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/20/14 19:50	03/25/14 14:00	30,5210B	SE
Total Organic Carbon	1.29		mg/l	1.00	0.236	2	-	04/01/14 06:16	30,5310C	DW
Phenolics, Total	0.01	J	mg/l	0.03	0.01	1	04/01/14 10:30	04/01/14 16:08	4,420.1	MP
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/20/14 02:55	03/20/14 03:13	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/20/14 22:32	44,300.0	AU
Chloride	3.50		mg/l	0.500	0.168	1	-	03/20/14 22:32	44,300.0	AU
Sulfate	29.0		mg/l	1.00	0.229	1	-	03/20/14 22:32	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-05
Client ID: MW-56A
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 13:55
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	6.0		A.P.C.U.	5.0	5.0	1	-	03/20/14 03:55	30,2120B	EL
Alkalinity, Total	194.		mg CaCO3/L	2.00	NA	1	-	03/27/14 12:15	30,2320B	JT
SALINITY	ND		SU	2.0	2.0	1	-	03/20/14 03:20	30,2520B	EL
Solids, Total Dissolved	250		mg/l	10	3.6	1	-	03/25/14 16:00	30,2540C	SD
Cyanide, Total	0.001	J	mg/l	0.005	0.001	1	03/27/14 15:30	03/31/14 14:47	1,9010C/9012B	JO
Nitrogen, Ammonia	0.230		mg/l	0.075	0.021	1	03/28/14 12:32	03/31/14 22:26	44,350.1	AT
Nitrogen, Nitrate	0.042	J	mg/l	0.10	0.021	1	-	03/20/14 16:01	44,353.2	JO
Nitrogen, Total Kjeldahl	0.40		mg/l	0.30	0.093	1	03/29/14 22:05	03/31/14 21:21	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/20/14 19:50	03/25/14 14:00	30,5210B	SE
Total Organic Carbon	1.03		mg/l	1.00	0.236	2	-	04/01/14 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	04/01/14 10:30	04/01/14 16:10	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/20/14 02:55	03/20/14 03:13	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/20/14 22:44	44,300.0	AU
Chloride	0.916		mg/l	0.500	0.168	1	-	03/20/14 22:44	44,300.0	AU
Sulfate	24.1		mg/l	1.00	0.229	1	-	03/20/14 22:44	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

SAMPLE RESULTS

Lab ID: L1405744-06
Client ID: MW-54A
Sample Location: T/O READING, NY
Matrix: Water

Date Collected: 03/19/14 14:45
Date Received: 03/19/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Color, Apparent	ND		A.P.C.U.	5.0	5.0	1	-	03/20/14 03:55	30,2120B	EL
Alkalinity, Total	127.		mg CaCO3/L	2.00	NA	1	-	03/27/14 12:15	30,2320B	JT
SALINITY	ND		SU	2.0	2.0	1	-	03/20/14 03:20	30,2520B	EL
Solids, Total Dissolved	180		mg/l	10	3.6	1	-	03/25/14 16:00	30,2540C	SD
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	03/27/14 15:30	03/31/14 14:47	1,9010C/9012B	JO
Nitrogen, Ammonia	0.385		mg/l	0.075	0.021	1	03/28/14 12:32	03/31/14 22:27	44,350.1	AT
Nitrogen, Nitrate	0.035	J	mg/l	0.10	0.021	1	-	03/20/14 16:01	44,353.2	JO
Nitrogen, Total Kjeldahl	0.49		mg/l	0.30	0.093	1	03/29/14 22:05	03/31/14 21:22	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:04	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	03/20/14 19:50	03/25/14 14:00	30,5210B	SE
Total Organic Carbon	1.29		mg/l	1.00	0.236	2	-	04/01/14 06:16	30,5310C	DW
Phenolics, Total	ND		mg/l	0.03	0.01	1	04/01/14 10:30	04/01/14 16:11	4,420.1	MP
Chromium, Hexavalent	0.004	J	mg/l	0.010	0.003	1	03/20/14 02:55	03/20/14 03:14	1,7196A	EL
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.010	1	-	03/20/14 22:56	44,300.0	AU
Chloride	1.10		mg/l	0.500	0.168	1	-	03/20/14 22:56	44,300.0	AU
Sulfate	22.3		mg/l	1.00	0.229	1	-	03/20/14 22:56	44,300.0	AU

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG676642-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	03/20/14 02:55	03/20/14 03:11	1,7196A	EL
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG676824-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	03/20/14 15:18	44,353.2	JO
General Chemistry - Westborough Lab for sample(s): 04-06 Batch: WG676825-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	03/20/14 15:19	44,353.2	JO
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG676830-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	03/20/14 19:50	03/25/14 14:00	30,5210B	SE
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-06 Batch: WG677188-1										
Bromide	ND		mg/l	0.050	0.010	1	-	03/20/14 21:56	44,300.0	AU
Chloride	ND		mg/l	0.500	0.168	1	-	03/20/14 21:56	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.229	1	-	03/20/14 21:56	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG677821-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	03/25/14 16:00	30,2540C	SD
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG678323-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/27/14 08:10	03/27/14 17:11	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG678388-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	03/27/14 12:15	30,2320B	JT
General Chemistry - Westborough Lab for sample(s): 03-06 Batch: WG678455-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/27/14 15:30	03/31/14 14:42	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG678460-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	03/27/14 17:00	03/27/14 20:01	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG678720-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	03/28/14 12:32	03/31/14 21:58	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG678721-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	03/28/14 13:50	03/31/14 14:11	1,9010C/9012B	JO
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG678926-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.031	1	03/29/14 22:05	03/31/14 21:03	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG679037-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/31/14 14:00	03/31/14 16:38	4,420.1	TE

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744

Project Number: 08.8696 **Report Date:** 04/02/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG679039-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	03/31/14 16:00	03/31/14 19:22	4,420.1	TE
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG679277-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	04/01/14 06:16	30,5310C	DW
General Chemistry - Westborough Lab for sample(s): 03-06 Batch: WG679336-1										
Phenolics, Total	ND		mg/l	0.03	0.01	1	04/01/14 10:30	04/01/14 16:05	4,420.1	MP

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG676642-2								
Chromium, Hexavalent	101		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG676643-1								
SALINITY	98		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG676824-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 04-06 Batch: WG676825-2								
Nitrogen, Nitrate	100		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG676830-2								
BOD, 5 day	90		-		85-115	-		20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-06 Batch: WG677188-2								
Bromide	94		-		90-110	-		
Chloride	100		-		90-110	-		
Sulfate	110		-		90-110	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG677821-2					
Solids, Total Dissolved	100	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG678323-2 WG678323-3					
Cyanide, Total	85	92	80-120	8	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG678388-2					
Alkalinity, Total	101	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 03-06 Batch: WG678455-2 WG678455-3					
Cyanide, Total	87	89	80-120	2	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG678460-2					
Chemical Oxygen Demand	96	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG678720-2					
Nitrogen, Ammonia	108	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG678721-2 WG678721-3					
Cyanide, Total	99	99	80-120	0	20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG678926-2					
Nitrogen, Total Kjeldahl	98	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG679037-2					
Phenolics, Total	103	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG679039-2					
Phenolics, Total	100	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01-06 Batch: WG679277-2					
Total Organic Carbon	92	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 03-06 Batch: WG679336-2					
Phenolics, Total	106	-	70-130	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676642-4 QC Sample: L1405744-02 Client ID: MW-58												
Chromium, Hexavalent	ND	0.1	0.089	89		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG676824-4 QC Sample: L1405764-01 Client ID: MS Sample												
Nitrogen, Nitrate	0.49	4	4.1	90		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG676825-4 QC Sample: L1405741-08 Client ID: MS Sample												
Nitrogen, Nitrate	11.	4	15	100		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676830-4 QC Sample: L1405764-01 Client ID: MS Sample												
BOD, 5 day	ND	100	91	91		-	-		50-145	-		35
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG677188-3 WG677188-4 QC Sample: L1405742-02 Client ID: MS Sample												
Bromide	ND	10	8.92	89		8.93	89		77-119	0		20
Chloride	25.2	100	134	109		134	109		40-151	0		18
Sulfate	282.	200	497	108		500	109		60-140	1		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG678323-4 WG678323-5 QC Sample: L1405862-10 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.166	83		0.194	97		80-120	16		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678388-4 QC Sample: L1405744-01 Client ID: MW-51												
Alkalinity, Total	156.	100	253	97		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 03-06 QC Batch ID: WG678455-4 WG678455-5 QC Sample: L1405764-01 Client ID: MS Sample												
Cyanide, Total	0.001J	0.2	0.196	98		0.194	97		80-120	1		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678460-3 QC Sample: L1405636-05 Client ID: MS Sample									
Chemical Oxygen Demand	4000	2380	6400	101	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678720-4 QC Sample: L1406235-03 Client ID: MS Sample									
Nitrogen, Ammonia	0.058J	4	3.66	92	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG678721-4 WG678721-5 QC Sample: L1405764-03 Client ID: MS Sample									
Cyanide, Total	0.002J	0.2	0.202	101	0.198	99	80-120	2	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678926-4 QC Sample: L1405636-05 Client ID: MS Sample									
Nitrogen, Total Kjeldahl	780	400	1200	101	-	-	77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679037-4 QC Sample: L1405637-01 Client ID: MS Sample									
Phenolics, Total	ND	0.4	0.40	100	-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG679039-4 QC Sample: L1405637-05 Client ID: MS Sample									
Phenolics, Total	0.71	0.4	1.1	89	-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG679277-4 QC Sample: L1405637-05 Client ID: MS Sample									
Total Organic Carbon	814.	800	1670	107	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 03-06 QC Batch ID: WG679336-4 QC Sample: L1405764-01 Client ID: MS Sample									
Phenolics, Total	ND	0.4	0.40	100	-	-	70-130	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676636-1 QC Sample: L1405744-01 Client ID: MW-51						
Color, Apparent	5.0	5.0	A.P.C.U.	0		
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676642-3 QC Sample: L1405744-01 Client ID: MW-51						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676643-2 QC Sample: L1405744-06 Client ID: MW-54A						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG676824-3 QC Sample: L1405764-01 Client ID: DUP Sample						
Nitrogen, Nitrate	0.49	0.48	mg/l	2		6
General Chemistry - Westborough Lab Associated sample(s): 04-06 QC Batch ID: WG676825-3 QC Sample: L1405741-08 Client ID: DUP Sample						
Nitrogen, Nitrate	11.	12	mg/l	**9**	Q	6
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG676830-3 QC Sample: L1405764-01 Client ID: DUP Sample						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG677821-3 QC Sample: L1405764-01 Client ID: DUP Sample						
Solids, Total Dissolved	370	370	mg/l	0		17
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678388-3 QC Sample: L1406256-01 Client ID: DUP Sample						
Alkalinity, Total	198.	199	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678460-4 QC Sample: L1405636-05 Client ID: DUP Sample						
Chemical Oxygen Demand	4000	4000	mg/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678720-3 QC Sample: L1405636-06 Client ID: DUP Sample					
Nitrogen, Ammonia	2.66	2.69	mg/l	1	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG678926-3 QC Sample: L1405636-05 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	780	790	mg/l	1	24
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG679037-3 QC Sample: L1405637-01 Client ID: DUP Sample					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG679039-3 QC Sample: L1405637-05 Client ID: DUP Sample					
Phenolics, Total	0.71	0.78	mg/l	9	20
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG679277-3 QC Sample: L1405637-05 Client ID: DUP Sample					
Total Organic Carbon	814.	829	mg/l	2	20
General Chemistry - Westborough Lab Associated sample(s): 03-06 QC Batch ID: WG679336-3 QC Sample: L1405764-01 Client ID: DUP Sample					
Phenolics, Total	ND	ND	mg/l	NC	20

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405744-01A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1405744-01B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1405744-01C	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1405744-01D	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1405744-01E	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1405744-01F	Amber 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TPHENOL-420(28)
L1405744-01G	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1405744-01H	Plastic 500ml unpreserved	A	7	2.8	Y	Absent	BOD-5210(2),NO3-353(2)
L1405744-01I	Plastic 250ml unpreserved	A	N/A	2.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1405744-01J	Plastic 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405744-01K	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-9010(14)
L1405744-01L	Plastic 500ml HNO3 preserved	A	<2	2.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405744-01M	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	ALK-T-2320(14)
L1405744-01N	Amber 250ml unpreserved	A	7	2.8	Y	Absent	SALINITY(28)
L1405744-02A	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1405744-02B	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405744-02C	Vial HCl preserved	A	N/A	2.8	Y	Absent	NYTCL-8260(14)
L1405744-02D	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1405744-02E	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1405744-02F	Amber 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TPHENOL-420(28)
L1405744-02G	Plastic 1000ml unpreserved	A	7	2.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1405744-02H	Plastic 500ml unpreserved	A	7	2.8	Y	Absent	BOD-5210(2),NO3-353(2)
L1405744-02I	Plastic 250ml unpreserved	A	N/A	2.8	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1405744-02J	Plastic 500ml H2SO4 preserved	A	<2	2.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405744-02K	Plastic 250ml NaOH preserved	A	>12	2.8	Y	Absent	TCN-9010(14)
L1405744-02L	Plastic 500ml HNO3 preserved	A	<2	2.8	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405744-02M	Plastic 250ml unpreserved	A	7	2.8	Y	Absent	ALK-T-2320(14)
L1405744-02N	Amber 250ml unpreserved	A	7	2.8	Y	Absent	SALINITY(28)
L1405744-03A	Vial HCl preserved	B	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1405744-03B	Vial HCl preserved	B	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1405744-03C	Vial HCl preserved	B	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1405744-03D	Vial H2SO4 preserved	B	N/A	2.1	Y	Absent	TOC-5310(28)
L1405744-03E	Vial H2SO4 preserved	B	N/A	2.1	Y	Absent	TOC-5310(28)
L1405744-03F	Amber 500ml H2SO4 preserved	B	<2	2.1	Y	Absent	TPHENOL-420(28)
L1405744-03G	Plastic 1000ml unpreserved	B	7	2.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1405744-03H	Plastic 500ml unpreserved	B	7	2.1	Y	Absent	BOD-5210(2),NO3-353(2)
L1405744-03I	Plastic 250ml unpreserved	B	N/A	2.1	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1405744-03J	Plastic 500ml H2SO4 preserved	B	<2	2.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405744-03K	Plastic 250ml NaOH preserved	B	>12	2.1	Y	Absent	TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405744-03L	Plastic 500ml HNO3 preserved	B	<2	2.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405744-03M	Plastic 250ml unpreserved	B	7	2.1	Y	Absent	ALK-T-2320(14)
L1405744-03N	Amber 250ml unpreserved	B	7	2.1	Y	Absent	SALINITY(28)
L1405744-04A	Vial HCl preserved	B	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1405744-04B	Vial HCl preserved	B	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1405744-04C	Vial HCl preserved	B	N/A	2.1	Y	Absent	NYTCL-8260(14)
L1405744-04D	Vial H2SO4 preserved	B	N/A	2.1	Y	Absent	TOC-5310(28)
L1405744-04E	Vial H2SO4 preserved	B	N/A	2.1	Y	Absent	TOC-5310(28)
L1405744-04F	Amber 500ml H2SO4 preserved	B	<2	2.1	Y	Absent	TPHENOL-420(28)
L1405744-04G	Plastic 1000ml unpreserved	B	7	2.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1405744-04H	Plastic 500ml unpreserved	B	7	2.1	Y	Absent	BOD-5210(2),NO3-353(2)
L1405744-04I	Plastic 250ml unpreserved	B	N/A	2.1	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1405744-04J	Plastic 500ml H2SO4 preserved	B	<2	2.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405744-04K	Plastic 250ml NaOH preserved	B	>12	2.1	Y	Absent	TCN-9010(14)
L1405744-04L	Plastic 500ml HNO3 preserved	B	<2	2.1	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405744-04M	Plastic 250ml unpreserved	B	7	2.1	Y	Absent	ALK-T-2320(14)
L1405744-04N	Amber 250ml unpreserved	B	7	2.1	Y	Absent	SALINITY(28)
L1405744-05A	Vial HCl preserved	C	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1405744-05B	Vial HCl preserved	C	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1405744-05C	Vial HCl preserved	C	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1405744-05D	Vial H2SO4 preserved	C	N/A	3.3	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405744-05E	Vial H2SO4 preserved	C	N/A	3.3	Y	Absent	TOC-5310(28)
L1405744-05F	Amber 500ml H2SO4 preserved	C	<2	3.3	Y	Absent	TPHENOL-420(28)
L1405744-05G	Plastic 1000ml unpreserved	C	7	3.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1405744-05H	Plastic 500ml unpreserved	C	7	3.3	Y	Absent	BOD-5210(2),NO3-353(2)
L1405744-05I	Plastic 250ml unpreserved	C	N/A	3.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1405744-05J	Plastic 500ml H2SO4 preserved	C	<2	3.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405744-05K	Plastic 250ml NaOH preserved	C	>12	3.3	Y	Absent	TCN-9010(14)
L1405744-05L	Plastic 500ml HNO3 preserved	C	<2	3.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405744-05M	Plastic 250ml unpreserved	C	7	3.3	Y	Absent	ALK-T-2320(14)
L1405744-05N	Amber 250ml unpreserved	C	7	3.3	Y	Absent	SALINITY(28)
L1405744-06A	Vial HCl preserved	C	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1405744-06B	Vial HCl preserved	C	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1405744-06C	Vial HCl preserved	C	N/A	3.3	Y	Absent	NYTCL-8260(14)
L1405744-06D	Vial H2SO4 preserved	C	N/A	3.3	Y	Absent	TOC-5310(28)
L1405744-06E	Vial H2SO4 preserved	C	N/A	3.3	Y	Absent	TOC-5310(28)
L1405744-06F	Amber 500ml H2SO4 preserved	C	<2	3.3	Y	Absent	TPHENOL-420(28)
L1405744-06G	Plastic 1000ml unpreserved	C	7	3.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1405744-06H	Plastic 500ml unpreserved	C	7	3.3	Y	Absent	BOD-5210(2),NO3-353(2)
L1405744-06I	Plastic 250ml unpreserved	C	N/A	3.3	Y	Absent	HEXCR-7196(1),COLOR-A-2120(2)
L1405744-06J	Plastic 500ml H2SO4 preserved	C	<2	3.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1405744-06K	Plastic 250ml NaOH preserved	C	>12	3.3	Y	Absent	TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1405744
Report Date: 04/02/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1405744-06L	Plastic 500ml HNO3 preserved	C	<2	3.3	Y	Absent	BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),B-TI(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-TI(180),CA-TI(180),CO-6020T(180),HARDT(180)
L1405744-06M	Plastic 250ml unpreserved	C	7	3.3	Y	Absent	ALK-T-2320(14)
L1405744-06N	Amber 250ml unpreserved	C	7	3.3	Y	Absent	SALINITY(28)
L1405744-07A	Vial HCl preserved	B	N/A	2.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405744
Project Number:	08.8696	**Report Date:**	04/02/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
G	- The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
H	- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	- The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1405744
Project Number:	08.8696	**Report Date:**	04/02/14

Data Qualifiers

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT BRINE PONDS **Lab Number:** L1405744
Project Number: 08.8696 **Report Date:** 04/02/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised December 11, 2013

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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8 Walkup Dr.
TEL: 508-898-9220
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Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page
of

Date Rec'd in Lab: 3/20/14

ALPHA Job #: L1405744

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518-786-7400
Fax:
Email: kmoline@ctmale.com

Project Information

Project Name: US Salt Brine Ponds
Project Location: T/o Reading, NY
Project #: 03.83696
(Use Project name as Project #) ☐
Project Manager: Kirk Moline
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date: 3/28/14
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ **Done**
☐ **Lab to do**
Preservation
☐ **Lab to do**
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Baseline	Salinity	VOCs						Sample Specific Comments	Total Bottle
05744-1	MW-51	3/19/14	0930	GW	SB	X	X								
2	MW-58	3/19/14	1020	GW	SB	X	X								
3	MW-57	3/19/14	1120	GW	SB	X	X								
4	MW-55	3/19/14	1215	GW	SB	X	X								
5	MW-56A	3/19/14	1355	GW	SB	X	X								
6	MW-54A	3/19/14	1445	GW	SB	X	X								
7	Trip Blank							X							

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	3/19/14 1705	[illegible]	3/19/14 1705
[illegible]	3/19/14 2245	[illegible]	3/19/14 2245
[illegible]	3/20/14 0124	[illegible]	3/20/14 0124

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1424181
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT BRINE PONDS
Project Number:	08.8696
Report Date:	10/21/14

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1424181-01	MW-40	WATER	READING, NY	10/10/14 08:35	10/10/14
L1424181-02	MW-48	WATER	READING, NY	10/10/14 09:15	10/10/14
L1424181-03	TRIP BLANK	WATER	READING, NY	10/10/14 00:00	10/10/14

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181
Project Number: 08.8696 **Report Date:** 10/21/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1424181
Project Number:	08.8696	**Report Date:**	10/21/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Bromide

L1424181-01 and -02 have elevated detection limits due to the dilutions required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative

Date: 10/21/14

ORGANICS

VOLATILES

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1424181
Report Date: 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-01
Client ID: MW-40
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/14/14 12:46
Analyst: PD

Date Collected: 10/10/14 08:35
Date Received: 10/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	6.8		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181

Project Number: 08.8696 **Report Date:** 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-01 Date Collected: 10/10/14 08:35

Client ID: MW-40 Date Received: 10/10/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1424181
Report Date: 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-02
Client ID: MW-48
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/14/14 13:21
Analyst: PD

Date Collected: 10/10/14 09:15
Date Received: 10/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	13		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181

Project Number: 08.8696 **Report Date:** 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-02 Date Collected: 10/10/14 09:15

Client ID: MW-48 Date Received: 10/10/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1424181
Report Date: 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-03
Client ID: TRIP BLANK
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/14/14 13:56
Analyst: PD

Date Collected: 10/10/14 00:00
Date Received: 10/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181

Project Number: 08.8696 **Report Date:** 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-03 Date Collected: 10/10/14 00:00

Client ID: TRIP BLANK Date Received: 10/10/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	95		70-130

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181

Project Number: 08.8696 **Report Date:** 10/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/14/14 11:35
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG730871-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181

Project Number: 08.8696 **Report Date:** 10/21/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/14/14 11:35
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG730871-3					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG730871-1 WG730871-2								
Methylene chloride	105		104		70-130	1		20
1,1-Dichloroethane	105		105		70-130	0		20
Chloroform	103		101		70-130	2		20
2-Chloroethylvinyl ether	105		103		70-130	2		20
Carbon tetrachloride	89		86		63-132	3		20
1,2-Dichloropropane	111		108		70-130	3		20
Dibromochloromethane	93		92		63-130	1		20
1,1,2-Trichloroethane	102		102		70-130	0		20
Tetrachloroethene	87		84		70-130	4		20
Chlorobenzene	101		100		75-130	1		20
Trichlorofluoromethane	84		80		62-150	5		20
1,2-Dichloroethane	104		102		70-130	2		20
1,1,1-Trichloroethane	94		91		67-130	3		20
Bromodichloromethane	111		107		67-130	4		20
trans-1,3-Dichloropropene	88		86		70-130	2		20
cis-1,3-Dichloropropene	98		96		70-130	2		20
1,1-Dichloropropene	98		95		70-130	3		20
Bromoform	89		90		54-136	1		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	107		104		70-130	3		20
Toluene	102		100		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG730871-1 WG730871-2								
Ethylbenzene	109		108		70-130	1		20
Chloromethane	101		102		64-130	1		20
Bromomethane	63		61		39-139	3		20
Vinyl chloride	120		118		55-140	2		20
Chloroethane	105		105		55-138	0		20
1,1-Dichloroethene	93		90		61-145	3		20
trans-1,2-Dichloroethene	98		97		70-130	1		20
Trichloroethene	97		97		70-130	0		20
1,2-Dichlorobenzene	99		97		70-130	2		20
1,3-Dichlorobenzene	98		96		70-130	2		20
1,4-Dichlorobenzene	99		97		70-130	2		20
Methyl tert butyl ether	94		94		63-130	0		20
p/m-Xylene	104		103		70-130	1		20
o-Xylene	105		104		70-130	1		20
cis-1,2-Dichloroethene	102		102		70-130	0		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	104		104		64-130	0		20
Acrylonitrile	109		107		70-130	2		20
Isopropyl Ether	111		109		70-130	2		20
tert-Butyl Alcohol	**160**	Q	**159**	Q	70-130	1		20
Styrene	114		112		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG730871-1 WG730871-2								
Dichlorodifluoromethane	59		57		36-147	3		20
Acetone	109		111		58-148	2		20
Carbon disulfide	98		95		51-130	3		20
2-Butanone	111		110		63-138	1		20
Vinyl acetate	101		101		70-130	0		20
4-Methyl-2-pentanone	110		107		59-130	3		20
2-Hexanone	112		111		57-130	1		20
Bromochloromethane	99		97		70-130	2		20
2,2-Dichloropropane	**143**	Q	**140**	Q	63-133	2		20
1,2-Dibromoethane	96		96		70-130	0		20
1,3-Dichloropropane	104		104		70-130	0		20
1,1,1,2-Tetrachloroethane	96		91		64-130	5		20
Bromobenzene	95		94		70-130	1		20
n-Butylbenzene	104		100		53-136	4		20
sec-Butylbenzene	110		107		70-130	3		20
tert-Butylbenzene	104		101		70-130	3		20
o-Chlorotoluene	107		105		70-130	2		20
p-Chlorotoluene	110		108		70-130	2		20
1,2-Dibromo-3-chloropropane	102		103		41-144	1		20
Hexachlorobutadiene	86		80		63-130	7		20
Isopropylbenzene	110		107		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG730871-1 WG730871-2								
p-Isopropyltoluene	104		102		70-130	2		20
Naphthalene	95		96		70-130	1		20
n-Propylbenzene	115		113		69-130	2		20
1,2,3-Trichlorobenzene	87		85		70-130	2		20
1,2,4-Trichlorobenzene	86		84		70-130	2		20
1,3,5-Trimethylbenzene	107		104		64-130	3		20
1,2,4-Trimethylbenzene	106		104		70-130	2		20
Methyl Acetate	110		115		70-130	4		20
Ethyl Acetate	117		118		70-130	1		20
Cyclohexane	98		95		70-130	3		20
Ethyl-Tert-Butyl-Ether	**152**	Q	**152**	Q	70-130	0		20
Tertiary-Amyl Methyl Ether	130		130		66-130	0		20
1,4-Dioxane	122		111		56-162	9		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	84		83		70-130	1		20
1,4-Diethylbenzene	102		100		70-130	2		20
4-Ethyltoluene	113		110		70-130	3		20
1,2,4,5-Tetramethylbenzene	103		101		70-130	2		20
Ethyl ether	98		98		59-134	0		20
trans-1,4-Dichloro-2-butene	99		101		70-130	2		20
Methyl cyclohexane	90		85		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG730871-1 WG730871-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		101		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	109		108		70-130
Dibromofluoromethane	97		96		70-130

METALS

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1424181
Project Number:	08.8696	**Report Date:**	10/21/14

SAMPLE RESULTS

Lab ID:	L1424181-01	Date Collected:	10/10/14 08:35
Client ID:	MW-40	Date Received:	10/10/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.0001	J	mg/l	0.0002	0.0001	1	10/18/14 17:37	10/21/14 15:40	EPA 3005A	1,6020A	BM
Calcium, Total	140		mg/l	0.10	0.03	1	10/20/14 16:13	10/21/14 16:40	EPA 3005A	1,6010C	JH
Iron, Total	0.448		mg/l	0.050	0.012	1	10/18/14 17:37	10/21/14 15:40	EPA 3005A	1,6020A	BM
Lead, Total	0.0002	J	mg/l	0.0010	0.0001	1	10/18/14 17:37	10/21/14 15:40	EPA 3005A	1,6020A	BM
Magnesium, Total	62.		mg/l	0.10	0.010	1	10/20/14 16:13	10/21/14 16:40	EPA 3005A	1,6010C	JH
Manganese, Total	1.045		mg/l	0.0050	0.0030	10	10/18/14 17:37	10/21/14 16:06	EPA 3005A	1,6020A	BM
Potassium, Total	15.3		mg/l	0.100	0.019	1	10/18/14 17:37	10/21/14 15:40	EPA 3005A	1,6020A	BM
Sodium, Total	44.1		mg/l	1.00	0.161	10	10/18/14 17:37	10/21/14 16:06	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	610		mg/l	0.66	NA	1	10/20/14 16:13	10/21/14 16:40	EPA 3005A	1,6010C	JH

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1424181
Project Number:	08.8696	**Report Date:**	10/21/14

SAMPLE RESULTS

Lab ID:	L1424181-02	Date Collected:	10/10/14 09:15
Client ID:	MW-48	Date Received:	10/10/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	10/18/14 17:37	10/21/14 15:43	EPA 3005A	1,6020A	BM
Calcium, Total	300		mg/l	0.10	0.03	1	10/20/14 16:13	10/21/14 16:44	EPA 3005A	1,6010C	JH
Iron, Total	3.05		mg/l	0.050	0.012	1	10/18/14 17:37	10/21/14 15:43	EPA 3005A	1,6020A	BM
Lead, Total	0.0012		mg/l	0.0010	0.0001	1	10/18/14 17:37	10/21/14 15:43	EPA 3005A	1,6020A	BM
Magnesium, Total	97.		mg/l	0.10	0.010	1	10/20/14 16:13	10/21/14 16:44	EPA 3005A	1,6010C	JH
Manganese, Total	0.6787		mg/l	0.0050	0.0030	10	10/18/14 17:37	10/21/14 16:10	EPA 3005A	1,6020A	BM
Potassium, Total	6.10		mg/l	0.100	0.019	1	10/18/14 17:37	10/21/14 15:43	EPA 3005A	1,6020A	BM
Sodium, Total	123		mg/l	1.00	0.161	10	10/18/14 17:37	10/21/14 16:10	EPA 3005A	1,6020A	BM
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1200		mg/l	0.66	NA	1	10/20/14 16:13	10/21/14 16:44	EPA 3005A	1,6010C	JH

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181

Project Number: 08.8696 **Report Date:** 10/21/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG732407-1										
Cadmium, Total	ND		mg/l	0.0002	0.0001	1	10/18/14 17:37	10/21/14 13:51	1,6020A	BM
Lead, Total	ND		mg/l	0.0005	0.0001	1	10/18/14 17:37	10/21/14 13:51	1,6020A	BM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-02 Batch: WG732999-1										
Calcium, Total	ND		mg/l	0.10	0.03	1	10/20/14 16:13	10/21/14 16:12	1,6010C	JH
Magnesium, Total	ND		mg/l	0.10	0.010	1	10/20/14 16:13	10/21/14 16:12	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-02 Batch: WG732999-1										
Hardness	ND		mg/l	0.66	NA	1	10/20/14 16:13	10/21/14 16:12	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: US SALT BRINE PONDS

Project Number: 08.8696

Lab Number: L1424181

Report Date: 10/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG732407-2								
Cadmium, Total	92		-		80-120	-		
Lead, Total	89		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01-02 Batch: WG732999-2								
Calcium, Total	100		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 Batch: WG732999-2								
Hardness	101		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1424181
Report Date: 10/21/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732407-4 QC Sample: L1424399-01 Client ID: MS Sample												
Cadmium, Total	ND	0.051	0.0472	92		-	-		75-125	-		20
Lead, Total	0.0026	0.51	0.4598	90		-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732999-4 QC Sample: L1400010-84 Client ID: MS Sample												
Calcium, Total	360	10	370	100		-	-		75-125	-		20
Magnesium, Total	1.6	10	9.9	83		-	-		75-125	-		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732999-4 QC Sample: L1400010-84 Client ID: MS Sample												
Hardness	910	66.2	970	91		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732407-3 QC Sample: L1424399-01 Client ID: DUP Sample						
Cadmium, Total	ND	0.0001J	mg/l	NC		20
Lead, Total	0.0026	0.0045	mg/l	**55**	Q	20
Total Metals - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732999-3 QC Sample: L1400010-84 Client ID: DUP Sample						
Calcium, Total	360	370	mg/l	3		20
Magnesium, Total	1.6	1.7	mg/l	6		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732999-3 QC Sample: L1400010-84 Client ID: DUP Sample						
Hardness	910	930	mg/l	2		20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-01
Client ID: MW-40
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/10/14 08:35
Date Received: 10/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	286.		mg CaCO3/L	2.00	NA	1	-	10/13/14 09:42	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/14/14 01:32	30,2520B	AS
Solids, Total Dissolved	810		mg/l	10	3.6	1	-	10/14/14 12:20	30,2540C	DW
Nitrogen, Ammonia	0.249		mg/l	0.075	0.021	1	10/13/14 14:30	10/14/14 21:06	44,350.1	AT
Nitrogen, Nitrate	0.39		mg/l	0.10	0.021	1	-	10/11/14 06:34	44,353.2	DB
Nitrogen, Total Kjeldahl	0.25	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:51	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	14.		mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:59	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/11/14 04:45	10/15/14 22:50	30,5210B	DE
Total Organic Carbon	0.840		mg/l	0.500	0.118	1	-	10/17/14 07:50	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/14/14 11:15	10/14/14 16:04	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/16/14 22:30	44,300.0	AU
Chloride	293.		mg/l	5.00	0.974	10	-	10/16/14 22:30	44,300.0	AU
Sulfate	74.1		mg/l	10.0	1.30	10	-	10/16/14 22:30	44,300.0	AU

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

SAMPLE RESULTS

Lab ID: L1424181-02
Client ID: MW-48
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/10/14 09:15
Date Received: 10/10/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	295.		mg CaCO3/L	2.00	NA	1	-	10/13/14 09:42	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/14/14 01:32	30,2520B	AS
Solids, Total Dissolved	1900		mg/l	10	3.6	1	-	10/14/14 12:20	30,2540C	DW
Nitrogen, Ammonia	1.03		mg/l	0.075	0.021	1	10/13/14 14:30	10/14/14 21:28	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 06:34	44,353.2	DB
Nitrogen, Total Kjeldahl	1.2		mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:52	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.5	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:59	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/11/14 04:45	10/15/14 22:50	30,5210B	DE
Total Organic Carbon	0.420	J	mg/l	0.500	0.118	1	-	10/17/14 07:50	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/14/14 11:15	10/14/14 16:05	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.408	25	-	10/16/14 22:42	44,300.0	AU
Chloride	870.		mg/l	12.5	2.44	25	-	10/16/14 22:42	44,300.0	AU
Sulfate	59.6		mg/l	25.0	3.25	25	-	10/16/14 22:42	44,300.0	AU

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181

Project Number: 08.8696 **Report Date:** 10/21/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG730128-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 05:27	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG730146-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	10/11/14 04:45	10/15/14 22:50	30,5210B	DE
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG730428-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/13/14 09:42	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG730558-1										
Nitrogen, Ammonia	0.057	J	mg/l	0.075	0.021	1	10/13/14 14:30	10/14/14 20:55	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG730740-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	10/14/14 12:20	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG730839-1										
Phenolics, Total	0.009	J	mg/l	0.030	0.009	1	10/14/14 11:15	10/14/14 15:53	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG730996-1										
Nitrogen, Total Kjeldahl	0.11	J	mg/l	0.30	0.031	1	10/14/14 16:45	10/15/14 20:39	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG731735-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:54	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-02 Batch: WG732178-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	10/17/14 07:50	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG732202-1										
Chloride	ND		mg/l	0.500	0.097	1	-	10/16/14 20:18	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.130	1	-	10/16/14 20:18	44,300.0	AU
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-02 Batch: WG732202-1										
Bromide	ND		mg/l	0.050	0.016	1	-	10/16/14 20:18	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730128-2								
Nitrogen, Nitrate	91		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730146-2								
BOD, 5 day	93		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730428-3								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730558-2								
Nitrogen, Ammonia	102		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730671-1								
SALINITY	102		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730740-2								
Solids, Total Dissolved	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730839-2								
Phenolics, Total	102		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG730996-2					
Nitrogen, Total Kjeldahl	105	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG731735-2					
Chemical Oxygen Demand	105	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-02 Batch: WG732178-2					
Total Organic Carbon	92	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 Batch: WG732202-2					
Bromide	90	-	90-110	-	
Chloride	101	-	90-110	-	
Sulfate	109	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1424181
Report Date: 10/21/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730128-4 QC Sample: L1424082-01 Client ID: MS Sample												
Nitrogen, Nitrate	ND	4	3.0	**75**	Q	-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730146-4 QC Sample: L1400010-43 Client ID: MS Sample												
BOD, 5 day	ND	100	120	119		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730428-4 QC Sample: L1424181-01 Client ID: MW-40												
Alkalinity, Total	286.	100	376	90		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730558-4 QC Sample: L1424181-02 Client ID: MW-48												
Nitrogen, Ammonia	1.03	4	5.33	108		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730839-4 QC Sample: L1424047-01 Client ID: MS Sample												
Phenolics, Total	0.14	0.4	0.50	90		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730996-4 QC Sample: L1424008-11 Client ID: MS Sample												
Nitrogen, Total Kjeldahl	0.28J	8	7.2	90		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG731735-3 QC Sample: L1424008-11 Client ID: MS Sample												
Chemical Oxygen Demand	5.0J	47.6	53	111		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732178-4 QC Sample: L1424326-01 Client ID: MS Sample												
Total Organic Carbon	9.14	20	28.7	98		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696
Lab Number: L1424181
Report Date: 10/21/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732202-3 QC Sample: L1424083-04 Client ID: MS Sample									
Bromide	ND	10	8.39	84	-	-	77-119	-	20
Chloride	14.1	100	113	99	-	-	40-151	-	18
Sulfate	61.5	200	299	119	-	-	60-140	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730128-3 QC Sample: L1424082-01 Client ID: DUP Sample						
Nitrogen, Nitrate	ND	0.083J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730146-3 QC Sample: L1400010-42 Client ID: DUP Sample						
BOD, 5 day	43.	38	mg/l	12		35
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730428-2 QC Sample: L1424181-01 Client ID: MW-40						
Alkalinity, Total	286.	281	mg CaCO3/L	2		10
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730558-3 QC Sample: L1424181-02 Client ID: MW-48						
Nitrogen, Ammonia	1.03	1.07	mg/l	4		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730671-2 QC Sample: L1424218-04 Client ID: DUP Sample						
SALINITY	12.	12	SU	0		
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730740-3 QC Sample: L1424103-01 Client ID: DUP Sample						
Solids, Total Dissolved	10000	10000	mg/l	0		17
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730839-3 QC Sample: L1424047-01 Client ID: DUP Sample						
Phenolics, Total	0.14	0.15	mg/l	7		20
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG730996-3 QC Sample: L1424008-11 Client ID: DUP Sample						
Nitrogen, Total Kjeldahl	0.28J	0.31	mg/l	NC		24
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG731735-4 QC Sample: L1424008-11 Client ID: DUP Sample						
Chemical Oxygen Demand	5.0J	7.3J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732178-3 QC Sample: L1424326-01 Client ID: DUP Sample					
Total Organic Carbon	9.14	9.56	mg/l	4	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG732202-4 QC Sample: L1424083-04 Client ID: DUP Sample					
Bromide	ND	ND	mg/l	NC	20
Chloride	14.1	13.9	mg/l	1	18
Sulfate	61.5	63.7	mg/l	4	20

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424181-01A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1424181-01B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1424181-01C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1424181-01D	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-5310(28)
L1424181-01E	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-5310(28)
L1424181-01F	Amber 250ml unpreserved	A	N/A	4.6	Y	Absent	SALINITY(28)
L1424181-01G	Plastic 250ml unpreserved	A	7	4.6	Y	Absent	ALK-T-2320(14)
L1424181-01H	Plastic 250ml NaOH preserved	A	>12	4.6	Y	Absent	HOLD-WETCHEM(0)
L1424181-01I	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424181-01J	Plastic 500ml H2SO4 preserved	A	<2	4.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424181-01K	Plastic 500ml unpreserved	A	7	4.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1424181-01L	Plastic 1000ml unpreserved	A	7	4.6	Y	Absent	BOD-5210(2),NO3-353(2)
L1424181-01M	Amber 500ml H2SO4 preserved	A	<2	4.6	Y	Absent	TPHENOL-420(28)
L1424181-02A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1424181-02B	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1424181-02C	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)
L1424181-02D	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-5310(28)
L1424181-02E	Vial H2SO4 preserved	A	N/A	4.6	Y	Absent	TOC-5310(28)
L1424181-02F	Amber 250ml unpreserved	A	N/A	4.6	Y	Absent	SALINITY(28)
L1424181-02G	Plastic 250ml unpreserved	A	7	4.6	Y	Absent	ALK-T-2320(14)
L1424181-02H	Plastic 250ml NaOH preserved	A	>12	4.6	Y	Absent	HOLD-WETCHEM(0)
L1424181-02I	Plastic 250ml HNO3 preserved	A	<2	4.6	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT BRINE PONDS
Project Number: 08.8696

Lab Number: L1424181
Report Date: 10/21/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424181-02J	Plastic 500ml H2SO4 preserved	A	<2	4.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424181-02K	Plastic 500ml unpreserved	A	7	4.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),TDS-2540(7)
L1424181-02L	Plastic 1000ml unpreserved	A	7	4.6	Y	Absent	BOD-5210(2),NO3-353(2)
L1424181-02M	Amber 500ml H2SO4 preserved	A	<2	4.6	Y	Absent	TPHENOL-420(28)
L1424181-03A	Vial HCl preserved	A	N/A	4.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1424181
Project Number:	08.8696	**Report Date:**	10/21/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name:	US SALT BRINE PONDS	**Lab Number:**	L1424181
Project Number:	08.8696	**Report Date:**	10/21/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT BRINE PONDS **Lab Number:** L1424181
Project Number: 08.8696 **Report Date:** 10/21/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab: 10/11/14

ALPHA Job #: L1424181

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr.
Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: s.bicher@ctmale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt Brine Ponds
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Molino
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10/20/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Billing Information

☒ Same as Client info PO #: 08.8696

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Routine Parameters	VOCs	Salinity	Sample Specific Comments	Total # Bottles
24181-01	MW-40	10/10/14	0835	W	SB	✓	✓	✓		13
-02	MW-48	10/10/14	0915	W	SB	✓	✓	✓		13
-03	Trip Blank			W			✓			1
Container Type						O	V	A		
Preservative						O	B	A		

SAMPLE HANDLING
Filtration ____
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/10/14 1450	[signature] ARL	10-10-14 1450
Robert Haine	10-10-14 2121	[signature]	10-10-14 2121
[signature]	10-10-14 2121	[signature]	10/11/14 00:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1424008
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT-BRINE PONDS
Project Number:	08.8696
Report Date:	10/17/14

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Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1424008-01	MW-32	WATER	READING, NY	10/09/14 09:00	10/08/14
L1424008-02	MW-33	WATER	READING, NY	10/09/14 10:05	10/08/14
L1424008-03	MW-24	WATER	READING, NY	10/09/14 10:40	10/08/14
L1424008-04	MW-46	WATER	READING, NY	10/09/14 11:20	10/08/14
L1424008-05	MW-42	WATER	READING, NY	10/09/14 11:50	10/08/14
L1424008-06	MW-25	WATER	READING, NY	10/09/14 13:00	10/08/14
L1424008-07	MW-47	WATER	READING, NY	10/09/14 13:35	10/08/14
L1424008-08	MW-41	WATER	READING, NY	10/09/14 14:00	10/08/14
L1424008-09	MW-31	WATER	READING, NY	10/09/14 14:40	10/08/14
L1424008-10	MW-30	WATER	READING, NY	10/09/14 15:15	10/08/14
L1424008-11	MW-26	WATER	READING, NY	10/09/14 08:40	10/08/14
L1424008-12	MW-51	WATER	READING, NY	10/09/14 09:20	10/08/14
L1424008-13	MW-34	WATER	READING, NY	10/09/14 10:10	10/08/14
L1424008-14	MW-52	WATER	READING, NY	10/09/14 10:40	10/08/14
L1424008-15	EBWEST	WATER	READING, NY	10/09/14 11:30	10/08/14
L1424008-16	MW-35A	WATER	READING, NY	10/09/14 12:15	10/08/14
L1424008-17	MW-53	WATER	READING, NY	10/09/14 12:45	10/08/14
L1424008-18	MW-39	WATER	READING, NY	10/09/14 13:30	10/09/14
L1424008-19	MW-54A	WATER	READING, NY	10/09/14 14:15	10/09/14
L1424008-20	MW-29	WATER	READING, NY	10/09/14 14:45	10/09/14
L1424008-21	TRIP BLANK	WATER	READING, NY	10/09/14 00:00	10/09/14
L1424008-22	WL-WEST	WATER	READING, NY	10/09/14 16:15	10/09/14

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008
Project Number: 08.8696 **Report Date:** 10/17/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The WG730521-4 MS/MSD recoveries, performed on L1424008-01, are below the acceptance criteria for carbon tetrachloride (143%/151%), 1,1,1-trichloroethane (134%/145%), 1,1,2,2-tetrachloroethane (54%/59%), chloromethane (47%/54%), chloroethane (162%/181%), acetone (44%/51%), 2-butanone (36%/40%), vinyl acetate (MS at 66%), 4-methyl-2-pentanone (40%/44%), 2-hexanone (32%/35%), and trans-1,4-dichloro-2-butene (44%/45%); however, the associated LCS/LCSD recoveries are within overall method allowances.

The WG730521-4/-5 MS/MSD RPD, performed on L1424008-01, is above the acceptance criteria for bromomethane (30%).

The WG730521-6 MS/MSD recoveries, performed on L1424008-11, are below the acceptance criteria for carbon tetrachloride (157%/143%), trichlorofluoromethane (MS at 152%), 1,1,1-trichloroethane (148%/138%), trichloroethene (MS at 131%), 1,1,2,2-tetrachloroethane (60%/58%), chloromethane (56%/54%), chloroethane (186%/176%),acrylonitrile (50%/47%), acetone (MS at 56%), 2-butanone (41%/40%), vinyl acetate (68%/67%), 4-methyl-2-pentanone (46%/44%), 2-hexanone (37%/36%), and trans-1,4-dichloro-2-butene (48%/50%); however, the associated LCS/LCSD recoveries are within overall method allowances.

The WG730521-6/-7 MS/MSD RPD, performed on L1424008-11, is above the acceptance criteria for 1,2-dibromo-3-chloropropane (34%).

Metals

The WG731639-3/-4 MS/MSD recoveries, performed on L1424008-01, are outside the acceptance criteria for iron (MS at 134%), potassium (134%/130%), and sodium (0%/0%). A post digestion spike was performed and was within acceptance criteria.

The WG731639-7/-8 MS/MSD recoveries, performed on L1424008-11, are outside the acceptance criteria for potassium (128%/131%) and sodium (68%/65%). A post digestion spike was performed and was within acceptance criteria.

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008
Project Number: 08.8696 **Report Date:** 10/17/14

Case Narrative (continued)

The WG731642-3/-4 MS/MSD recoveries for calcium (0%/0%), magnesium (MSD at 60%), and hardness (60%/30%), performed on L1424008-01, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG731642-8 MSD recovery for calcium (130%), performed on L1424008-11, does not apply because the sample concentration is greater than four times the spike amount added.

Bromide
L1424008-01 through -12 have elevated detection limits due to the dilutions required by the sample matrices.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 10/17/14

ORGANICS

VOLATILES

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-01	Date Collected:	10/09/14 09:00
Client ID:	MW-32	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 11:44		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-01 Date Collected: 10/09/14 09:00

Client ID: MW-32 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	111		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-02	Date Collected:	10/09/14 10:05
Client ID:	MW-33	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 12:15		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-02 Date Collected: 10/09/14 10:05

Client ID: MW-33 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	109		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-03	Date Collected:	10/09/14 10:40
Client ID:	MW-24	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 12:46		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-03 Date Collected: 10/09/14 10:40

Client ID: MW-24 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-04	Date Collected:	10/09/14 11:20
Client ID:	MW-46	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 13:17		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-04 Date Collected: 10/09/14 11:20

Client ID: MW-46 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-05	Date Collected:	10/09/14 11:50
Client ID:	MW-42	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 13:48		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-05 Date Collected: 10/09/14 11:50

Client ID: MW-42 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	111		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-06	Date Collected:	10/09/14 13:00
Client ID:	MW-25	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 14:19		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-06 Date Collected: 10/09/14 13:00

Client ID: MW-25 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-07	Date Collected:	10/09/14 13:35
Client ID:	MW-47	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 14:50		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-07 Date Collected: 10/09/14 13:35

Client ID: MW-47 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	112		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-08	Date Collected:	10/09/14 14:00
Client ID:	MW-41	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 15:20		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-08 Date Collected: 10/09/14 14:00

Client ID: MW-41 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	115		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-09	Date Collected:	10/09/14 14:40
Client ID:	MW-31	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 15:51		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	11		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-09 Date Collected: 10/09/14 14:40

Client ID: MW-31 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	113		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-10	Date Collected:	10/09/14 15:15
Client ID:	MW-30	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 16:21		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	0.20	J	ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	13		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-10 Date Collected: 10/09/14 15:15

Client ID: MW-30 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	114		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-11	Date Collected:	10/09/14 08:40
Client ID:	MW-26	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 16:51		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-11 Date Collected: 10/09/14 08:40

Client ID: MW-26 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	114		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-12	Date Collected:	10/09/14 09:20
Client ID:	MW-51	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 17:21		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	2.5		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-12 Date Collected: 10/09/14 09:20

Client ID: MW-51 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	115		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-13	Date Collected:	10/09/14 10:10
Client ID:	MW-34	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 17:51		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	3.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-13 Date Collected: 10/09/14 10:10

Client ID: MW-34 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	112		70-130

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-14
Client ID: MW-52
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/13/14 18:21
Analyst: PD

Date Collected: 10/09/14 10:40
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.5		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-14 Date Collected: 10/09/14 10:40

Client ID: MW-52 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	113		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-15	Date Collected:	10/09/14 11:30
Client ID:	EBWEST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 16:39		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	3.3		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	0.56		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-15 Date Collected: 10/09/14 11:30

Client ID: EBWEST Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	8.6		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-16	Date Collected:	10/09/14 12:15
Client ID:	MW-35A	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 17:14		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	6.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-16 Date Collected: 10/09/14 12:15

Client ID: MW-35A Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-17	Date Collected:	10/09/14 12:45
Client ID:	MW-53	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 17:49		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	3.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-17 Date Collected: 10/09/14 12:45

Client ID: MW-53 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-18
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/13/14 18:25
Analyst: PD

Date Collected: 10/09/14 13:30
Date Received: 10/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	2.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-18 Date Collected: 10/09/14 13:30

Client ID: MW-39 Date Received: 10/09/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	97		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-19	Date Collected:	10/09/14 14:15
Client ID:	MW-54A	Date Received:	10/09/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 19:00		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	5.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-19 Date Collected: 10/09/14 14:15

Client ID: MW-54A Date Received: 10/09/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	3.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-20	Date Collected:	10/09/14 14:45
Client ID:	MW-29	Date Received:	10/09/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 19:35		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	3.0		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-20 Date Collected: 10/09/14 14:45

Client ID: MW-29 Date Received: 10/09/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.9	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-21	Date Collected:	10/09/14 00:00
Client ID:	TRIP BLANK	Date Received:	10/09/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/13/14 20:10		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-21 Date Collected: 10/09/14 00:00

Client ID: TRIP BLANK Date Received: 10/09/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-22
Client ID: WL-WEST
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/13/14 20:45
Analyst: PD

Date Collected: 10/09/14 16:15
Date Received: 10/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	2.8		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	0.49	J	ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-22 Date Collected: 10/09/14 16:15

Client ID: WL-WEST Date Received: 10/09/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	9.2		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/14 11:13
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-14 Batch: WG730521-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/14 11:13
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-14 Batch: WG730521-3					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/14 12:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15-22 Batch: WG730571-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/13/14 12:32
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 15-22 Batch: WG730571-3					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 Batch: WG730521-1 WG730521-2								
Methylene chloride	98		98		70-130	0		20
1,1-Dichloroethane	95		93		70-130	2		20
Chloroform	110		106		70-130	4		20
2-Chloroethylvinyl ether	88		89		70-130	1		20
Carbon tetrachloride	116		111		63-132	4		20
1,2-Dichloropropane	86		86		70-130	0		20
Dibromochloromethane	107		105		63-130	2		20
1,1,2-Trichloroethane	94		93		70-130	1		20
Tetrachloroethene	105		103		70-130	2		20
Chlorobenzene	102		99		75-130	3		20
Trichlorofluoromethane	117		113		62-150	3		20
1,2-Dichloroethane	120		115		70-130	4		20
1,1,1-Trichloroethane	116		113		67-130	3		20
Bromodichloromethane	110		106		67-130	4		20
trans-1,3-Dichloropropene	99		98		70-130	1		20
cis-1,3-Dichloropropene	100		99		70-130	1		20
1,1-Dichloropropene	98		94		70-130	4		20
Bromoform	110		107		54-136	3		20
1,1,2,2-Tetrachloroethane	89		88		67-130	1		20
Benzene	94		91		70-130	3		20
Toluene	94		92		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 Batch: WG730521-1 WG730521-2								
Ethylbenzene	100		98		70-130	2		20
Chloromethane	**54**	Q	**54**	Q	64-130	0		20
Bromomethane	63		61		39-139	3		20
Vinyl chloride	91		87		55-140	4		20
Chloroethane	135		133		55-138	1		20
1,1-Dichloroethene	95		93		61-145	2		20
trans-1,2-Dichloroethene	98		96		70-130	2		20
Trichloroethene	107		105		70-130	2		20
1,2-Dichlorobenzene	101		98		70-130	3		20
1,3-Dichlorobenzene	103		100		70-130	3		20
1,4-Dichlorobenzene	104		100		70-130	4		20
Methyl tert butyl ether	104		103		63-130	1		20
p/m-Xylene	105		104		70-130	1		20
o-Xylene	107		105		70-130	2		20
cis-1,2-Dichloroethene	101		97		70-130	4		20
Dibromomethane	102		101		70-130	1		20
1,2,3-Trichloropropane	98		97		64-130	1		20
Acrylonitrile	81		85		70-130	5		20
Isopropyl Ether	81		79		70-130	3		20
tert-Butyl Alcohol	100		105		70-130	5		20
Styrene	110		108		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 Batch: WG730521-1 WG730521-2								
Dichlorodifluoromethane	60		56		36-147	7		20
Acetone	99		94		58-148	5		20
Carbon disulfide	91		88		51-130	3		20
2-Butanone	86		89		63-138	3		20
Vinyl acetate	93		92		70-130	1		20
4-Methyl-2-pentanone	90		89		59-130	1		20
2-Hexanone	81		81		57-130	0		20
Acrolein	77		78		40-160	1		20
Bromochloromethane	117		116		70-130	1		20
2,2-Dichloropropane	120		116		63-133	3		20
1,2-Dibromoethane	97		98		70-130	1		20
1,3-Dichloropropane	92		91		70-130	1		20
1,1,1,2-Tetrachloroethane	109		106		64-130	3		20
Bromobenzene	101		99		70-130	2		20
n-Butylbenzene	95		92		53-136	3		20
sec-Butylbenzene	98		94		70-130	4		20
tert-Butylbenzene	102		99		70-130	3		20
o-Chlorotoluene	100		97		70-130	3		20
p-Chlorotoluene	102		99		70-130	3		20
1,2-Dibromo-3-chloropropane	96		95		41-144	1		20
Hexachlorobutadiene	101		97		63-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 Batch: WG730521-1 WG730521-2								
Isopropylbenzene	100		96		70-130	4		20
p-Isopropyltoluene	101		97		70-130	4		20
Naphthalene	85		86		70-130	1		20
n-Propylbenzene	97		94		69-130	3		20
1,2,3-Trichlorobenzene	89		89		70-130	0		20
1,2,4-Trichlorobenzene	92		91		70-130	1		20
1,3,5-Trimethylbenzene	105		102		64-130	3		20
1,2,4-Trimethylbenzene	103		100		70-130	3		20
Methyl Acetate	77		81		70-130	5		20
Ethyl Acetate	78		80		70-130	3		20
Cyclohexane	80		77		70-130	4		20
Ethyl-Tert-Butyl-Ether	97		95		70-130	2		20
Tertiary-Amyl Methyl Ether	100		98		66-130	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		88		70-130	7		20
1,4-Diethylbenzene	102		99		70-130	3		20
4-Ethyltoluene	103		99		70-130	4		20
1,2,4,5-Tetramethylbenzene	99		96		70-130	3		20
Ethyl ether	93		92		59-134	1		20
trans-1,4-Dichloro-2-butene	85		87		70-130	2		20
Methyl cyclohexane	89		85		70-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 Batch: WG730521-1 WG730521-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	122		122		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	115		116		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-22 Batch: WG730571-1 WG730571-2								
Methylene chloride	100		99		70-130	1		20
1,1-Dichloroethane	101		100		70-130	1		20
Chloroform	98		96		70-130	2		20
2-Chloroethylvinyl ether	94		100		70-130	6		20
Carbon tetrachloride	90		84		63-132	7		20
1,2-Dichloropropane	103		105		70-130	2		20
Dibromochloromethane	88		89		63-130	1		20
1,1,2-Trichloroethane	94		97		70-130	3		20
Tetrachloroethene	86		84		70-130	2		20
Chlorobenzene	97		97		75-130	0		20
Trichlorofluoromethane	84		80		62-150	5		20
1,2-Dichloroethane	97		97		70-130	0		20
1,1,1-Trichloroethane	92		88		67-130	4		20
Bromodichloromethane	104		103		67-130	1		20
trans-1,3-Dichloropropene	84		85		70-130	1		20
cis-1,3-Dichloropropene	92		93		70-130	1		20
1,1-Dichloropropene	96		92		70-130	4		20
Bromoform	85		88		54-136	3		20
1,1,2,2-Tetrachloroethane	99		103		67-130	4		20
Benzene	103		100		70-130	3		20
Toluene	100		98		70-130	2		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-22 Batch: WG730571-1 WG730571-2								
Ethylbenzene	106		105		70-130	1		20
Chloromethane	104		100		64-130	4		20
Bromomethane	57		58		39-139	2		20
Vinyl chloride	118		116		55-140	2		20
Chloroethane	102		99		55-138	3		20
1,1-Dichloroethene	90		88		61-145	2		20
trans-1,2-Dichloroethene	94		92		70-130	2		20
Trichloroethene	95		92		70-130	3		20
1,2-Dichlorobenzene	95		95		70-130	0		20
1,3-Dichlorobenzene	97		96		70-130	1		20
1,4-Dichlorobenzene	97		97		70-130	0		20
Methyl tert butyl ether	85		89		63-130	5		20
p/m-Xylene	102		100		70-130	2		20
o-Xylene	102		102		70-130	0		20
cis-1,2-Dichloroethene	97		95		70-130	2		20
Dibromomethane	90		94		70-130	4		20
1,2,3-Trichloropropane	92		97		64-130	5		20
Acrylonitrile	92		99		70-130	7		20
Isopropyl Ether	105		105		70-130	0		20
tert-Butyl Alcohol	129		**142**	Q	70-130	10		20
Styrene	109		110		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-22 Batch: WG730571-1 WG730571-2								
Dichlorodifluoromethane	62		59		36-147	5		20
Acetone	97		103		58-148	6		20
Carbon disulfide	92		91		51-130	1		20
2-Butanone	93		102		63-138	9		20
Vinyl acetate	87		91		70-130	4		20
4-Methyl-2-pentanone	93		102		59-130	9		20
2-Hexanone	94		100		57-130	6		20
Bromochloromethane	94		93		70-130	1		20
2,2-Dichloropropane	**140**	Q	**134**	Q	63-133	4		20
1,2-Dibromoethane	88		93		70-130	6		20
1,3-Dichloropropane	96		100		70-130	4		20
1,1,1,2-Tetrachloroethane	91		91		64-130	0		20
Bromobenzene	92		93		70-130	1		20
n-Butylbenzene	102		99		53-136	3		20
sec-Butylbenzene	108		106		70-130	2		20
tert-Butylbenzene	102		100		70-130	2		20
o-Chlorotoluene	106		105		70-130	1		20
p-Chlorotoluene	108		106		70-130	2		20
1,2-Dibromo-3-chloropropane	92		98		41-144	6		20
Hexachlorobutadiene	83		80		63-130	4		20
Isopropylbenzene	109		106		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-22 Batch: WG730571-1 WG730571-2								
p-Isopropyltoluene	103		100		70-130	3		20
Naphthalene	87		91		70-130	4		20
n-Propylbenzene	114		112		69-130	2		20
1,2,3-Trichlorobenzene	82		84		70-130	2		20
1,2,4-Trichlorobenzene	83		83		70-130	0		20
1,3,5-Trimethylbenzene	106		103		64-130	3		20
1,2,4-Trimethylbenzene	105		104		70-130	1		20
Methyl Acetate	96		104		70-130	8		20
Ethyl Acetate	99		105		70-130	6		20
Cyclohexane	97		94		70-130	3		20
Ethyl-Tert-Butyl-Ether	**140**	Q	**147**	Q	70-130	5		20
Tertiary-Amyl Methyl Ether	123		127		66-130	3		20
1,4-Dioxane	102		100		56-162	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	85		82		70-130	4		20
1,4-Diethylbenzene	101		99		70-130	2		20
4-Ethyltoluene	112		109		70-130	3		20
1,2,4,5-Tetramethylbenzene	102		98		70-130	4		20
Ethyl ether	93		95		59-134	2		20
trans-1,4-Dichloro-2-butene	91		97		70-130	6		20
Iodomethane	**41**	Q	**41**	Q	70-130	0		20
Methyl cyclohexane	88		85		70-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 15-22 Batch: WG730571-1 WG730571-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		101		70-130
Toluene-d8	103		103		70-130
4-Bromofluorobenzene	107		108		70-130
Dibromofluoromethane	96		96		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-4 WG730521-5 QC Sample: L1424008-01 Client ID: MW-32												
Methylene chloride	ND	10	9.3	93		9.9	99		70-130	6		20
1,1-Dichloroethane	ND	10	9.8	98		11	107		70-130	12		20
Chloroform	ND	10	12	116		12	124		70-130	0		20
Carbon tetrachloride	ND	10	14	**143**	Q	15	**151**	Q	63-132	7		20
1,2-Dichloropropane	ND	10	8.1	81		8.8	88		70-130	8		20
Dibromochloromethane	ND	10	9.2	92		9.9	99		63-130	7		20
1,1,2-Trichloroethane	ND	10	7.2	72		8.0	81		70-130	11		20
Tetrachloroethene	ND	10	11	109		12	121		70-130	9		20
Chlorobenzene	ND	10	10	100		11	111		75-130	10		20
Trichlorofluoromethane	ND	10	13	133		15	147		62-150	14		20
1,2-Dichloroethane	ND	10	11	110		12	119		70-130	9		20
1,1,1-Trichloroethane	ND	10	13	**134**	Q	14	**145**	Q	67-130	7		20
Bromodichloromethane	ND	10	11	110		12	118		67-130	9		20
trans-1,3-Dichloropropene	ND	10	8.2	82		8.9	89		70-130	8		20
cis-1,3-Dichloropropene	ND	10	9.0	90		9.6	96		70-130	6		20
1,1-Dichloropropene	ND	10	10	102		11	113		70-130	10		20
Bromoform	ND	10	7.9	80		8.3	83		54-136	5		20
1,1,2,2-Tetrachloroethane	ND	10	5.4	**54**	Q	5.9	**59**	Q	67-130	9		20
Benzene	ND	10	9.6	96		10	103		70-130	4		20
Toluene	ND	10	9.5	95		10	103		70-130	5		20
Ethylbenzene	ND	10	10	101		11	110		70-130	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-4 WG730521-5 QC Sample: L1424008-01 Client ID: MW-32												
Chloromethane	ND	10	4.7	**47**	Q	5.4	**54**	Q	64-130	14		20
Bromomethane	ND	10	3.9	39		5.3	53		39-139	**30**	Q	20
Vinyl chloride	ND	10	9.1	91		10	101		55-140	9		20
Chloroethane	ND	10	16	**162**	Q	18	**181**	Q	55-138	12		20
1,1-Dichloroethene	ND	10	10	102		11	113		61-145	10		20
trans-1,2-Dichloroethene	ND	10	10	103		11	111		70-130	10		20
Trichloroethene	ND	10	11	115		12	123		70-130	9		20
1,2-Dichlorobenzene	ND	10	9.2	92		10	101		70-130	8		20
1,3-Dichlorobenzene	ND	10	10	100		11	109		70-130	10		20
1,4-Dichlorobenzene	ND	10	9.8	98		11	107		70-130	12		20
Methyl tert butyl ether	ND	10	8.0	80		8.5	85		63-130	6		20
p/m-Xylene	ND	20	21	105		23	116		70-130	9		20
o-Xylene	ND	20	21	107		23	117		70-130	9		20
cis-1,2-Dichloroethene	ND	10	10	103		11	109		70-130	10		20
Dibromomethane	ND	10	8.6	86		9.1	91		70-130	6		20
1,2,3-Trichloropropane	ND	10	6.5	65		6.9	69		64-130	6		20
Acrylonitrile	ND	10	4.4J	**44**	Q	4.6J	**46**	Q	70-130	4		20
Isopropyl Ether	ND	10	7.4	75		8.0	80		70-130	8		20
tert-Butyl Alcohol	ND	50	10	**20**	Q	19	**39**	Q	70-130	**62**	Q	20
Styrene	ND	20	21	107		24	118		70-130	13		20
Dichlorodifluoromethane	ND	10	6.0	60		6.7	68		36-147	11		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-4 WG730521-5 QC Sample: L1424008-01 Client ID: MW-32												
Acetone	ND	10	4.4J	**44**	Q	5.0	**51**	Q	58-148	13		20
Carbon disulfide	ND	10	9.4	94		10	102		51-130	6		20
2-Butanone	ND	10	3.6J	**36**	Q	3.9J	**40**	Q	63-138	8		20
Vinyl acetate	ND	10	6.6	**66**	Q	7.0	70		70-130	6		20
4-Methyl-2-pentanone	ND	10	4.0J	**40**	Q	4.4J	**44**	Q	59-130	10		20
2-Hexanone	ND	10	3.2J	**32**	Q	3.5J	**35**	Q	57-130	9		20
Acrolein	ND	10	4.0J	40		4.3J	43		40-160	7		20
Bromochloromethane	ND	10	11	114		12	119		70-130	9		20
2,2-Dichloropropane	ND	10	12	117		12	124		63-133	0		20
1,2-Dibromoethane	ND	10	7.5	75		8.1	81		70-130	8		20
1,3-Dichloropropane	ND	10	7.4	74		8.0	80		70-130	8		20
1,1,1,2-Tetrachloroethane	ND	10	11	109		12	120		64-130	9		20
Bromobenzene	ND	10	9.7	98		11	107		70-130	13		20
n-Butylbenzene	ND	10	9.1	91		10	101		53-136	9		20
sec-Butylbenzene	ND	10	9.6	96		11	106		70-130	14		20
tert-Butylbenzene	ND	10	10	103		11	113		70-130	10		20
o-Chlorotoluene	ND	10	10	100		11	110		70-130	10		20
p-Chlorotoluene	ND	10	9.9	99		11	109		70-130	11		20
1,2-Dibromo-3-chloropropane	ND	10	7.2	72		6.3	63		41-144	13		20
Hexachlorobutadiene	ND	10	9.3	93		11	109		63-130	17		20
Isopropylbenzene	ND	10	10	100		11	111		70-130	10		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-4 WG730521-5 QC Sample: L1424008-01 Client ID: MW-32												
p-Isopropyltoluene	ND	10	10	100		11	110		70-130	10		20
Naphthalene	ND	10	5.1	**51**	Q	5.8	**58**	Q	70-130	13		20
n-Propylbenzene	ND	10	9.6	96		10	105		69-130	4		20
1,2,3-Trichlorobenzene	ND	10	6.9	**69**	Q	7.9	79		70-130	14		20
1,2,4-Trichlorobenzene	ND	10	7.8	79		8.8	88		70-130	12		20
1,3,5-Trimethylbenzene	ND	10	10	104		12	116		64-130	18		20
1,2,4-Trimethylbenzene	ND	10	10	104		11	113		70-130	10		20
Methyl Acetate	ND	10	3.9	**39**	Q	4.3	**43**	Q	70-130	10		20
Ethyl Acetate	ND	10	3.8J	**38**	Q	3.9J	**39**	Q	70-130	3		20
Cyclohexane	ND	10	7.0J	70		8.1J	81		70-130	15		20
Ethyl-Tert-Butyl-Ether	ND	10	8.6	86		9.2	92		70-130	7		20
Tertiary-Amyl Methyl Ether	ND	10	8.0	80		8.6	86		66-130	7		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	8.9	89		10	102		70-130	12		20
1,4-Diethylbenzene	ND	10	10	100		11	111		70-130	10		20
4-Ethyltoluene	ND	10	10	101		11	112		70-130	10		20
1,2,4,5-Tetramethylbenzene	ND	10	9.6	96		11	107		70-130	14		20
Ethyl ether	ND	10	7.3	73		7.5	75		59-134	3		20
trans-1,4-Dichloro-2-butene	ND	10	4.4	**44**	Q	4.5	**45**	Q	70-130	2		20
Methyl cyclohexane	ND	10	7.6J	76		8.7J	87		70-130	13		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-4 WG730521-5 QC Sample: L1424008-01 Client ID: MW-32												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		112		70-130
4-Bromofluorobenzene	94		93		70-130
Dibromofluoromethane	117		117		70-130
Toluene-d8	95		96		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-6 WG730521-7 QC Sample: L1424008-11 Client ID: MW-26												
Methylene chloride	ND	10	10	101		9.7	97		70-130	3		20
1,1-Dichloroethane	ND	10	11	108		10	104		70-130	10		20
Chloroform	ND	10	13	128		12	124		70-130	8		20
Carbon tetrachloride	ND	10	16	**157**	Q	14	**143**	Q	63-132	13		20
1,2-Dichloropropane	ND	10	9.2	92		8.8	88		70-130	4		20
Dibromochloromethane	ND	10	10	101		9.7	98		63-130	3		20
1,1,2-Trichloroethane	ND	10	8.1	81		7.8	78		70-130	4		20
Tetrachloroethene	ND	10	13	127		11	115		70-130	17		20
Chlorobenzene	ND	10	11	112		11	107		75-130	0		20
Trichlorofluoromethane	ND	10	15	**152**	Q	14	140		62-150	7		20
1,2-Dichloroethane	ND	10	12	119		12	116		70-130	0		20
1,1,1-Trichloroethane	ND	10	15	**148**	Q	14	**138**	Q	67-130	7		20
Bromodichloromethane	ND	10	12	120		12	115		67-130	0		20
trans-1,3-Dichloropropene	ND	10	9.1	91		8.9	90		70-130	2		20
cis-1,3-Dichloropropene	ND	10	10	100		9.7	97		70-130	3		20
1,1-Dichloropropene	ND	10	12	118		11	109		70-130	9		20
Bromoform	ND	10	8.7	87		8.3	84		54-136	5		20
1,1,2,2-Tetrachloroethane	ND	10	6.0	**60**	Q	5.8	**58**	Q	67-130	3		20
Benzene	ND	10	10	105		10	101		70-130	0		20
Toluene	ND	10	11	106		10	102		70-130	10		20
Ethylbenzene	ND	10	12	115		11	106		70-130	9		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-6 WG730521-7 QC Sample: L1424008-11 Client ID: MW-26												
Chloromethane	ND	10	5.6	**56**	Q	5.4	**54**	Q	64-130	4		20
Bromomethane	ND	10	5.7	57		5.7	57		39-139	0		20
Vinyl chloride	ND	10	11	106		10	100		55-140	10		20
Chloroethane	ND	10	18	**186**	Q	18	**176**	Q	55-138	0		20
1,1-Dichloroethene	ND	10	12	117		11	108		61-145	9		20
trans-1,2-Dichloroethene	ND	10	11	114		11	107		70-130	0		20
Trichloroethene	1.4	10	14	**131**	Q	13	120		70-130	7		20
1,2-Dichlorobenzene	ND	10	10	105		10	100		70-130	0		20
1,3-Dichlorobenzene	ND	10	11	114		10	105		70-130	10		20
1,4-Dichlorobenzene	ND	10	11	111		10	104		70-130	10		20
Methyl tert butyl ether	ND	10	8.6	86		8.3	83		63-130	4		20
p/m-Xylene	ND	20	24	121		22	112		70-130	9		20
o-Xylene	ND	20	24	123		23	114		70-130	4		20
cis-1,2-Dichloroethene	ND	10	11	113		11	109		70-130	0		20
Dibromomethane	ND	10	9.3	93		9.1	91		70-130	2		20
1,2,3-Trichloropropane	ND	10	6.9	69		6.7	67		64-130	3		20
Acrylonitrile	ND	10	5.0	**50**	Q	4.7J	**47**	Q	70-130	6		20
Isopropyl Ether	ND	10	8.2	82		8.0	80		70-130	2		20
tert-Butyl Alcohol	ND	50	20	**41**	Q	19	**38**	Q	70-130	5		20
Styrene	ND	20	24	120		23	114		70-130	4		20
Dichlorodifluoromethane	ND	10	6.7	67		6.2	62		36-147	8		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-6 WG730521-7 QC Sample: L1424008-11 Client ID: MW-26												
Acetone	ND	10	5.6	**56**	Q	5.8	58		58-148	4		20
Carbon disulfide	ND	10	10	104		9.8	98		51-130	2		20
2-Butanone	ND	10	4.1J	**41**	Q	4.0J	**40**	Q	63-138	2		20
Vinyl acetate	ND	10	6.8	**68**	Q	6.7	**67**	Q	70-130	1		20
4-Methyl-2-pentanone	ND	10	4.6J	**46**	Q	4.4J	**44**	Q	59-130	4		20
2-Hexanone	ND	10	3.7J	**37**	Q	3.6J	**36**	Q	57-130	3		20
Acrolein	ND	10	4.4J	44		4.1J	41		40-160	7		20
Bromochloromethane	ND	10	12	124		12	117		70-130	0		20
2,2-Dichloropropane	ND	10	13	128		12	118		63-133	8		20
1,2-Dibromoethane	ND	10	8.2	82		7.9	79		70-130	4		20
1,3-Dichloropropane	ND	10	8.1	81		8.0	80		70-130	1		20
1,1,1,2-Tetrachloroethane	ND	10	12	122		12	118		64-130	0		20
Bromobenzene	ND	10	11	111		10	106		70-130	10		20
n-Butylbenzene	ND	10	11	109		9.7	97		53-136	13		20
sec-Butylbenzene	ND	10	12	116		10	103		70-130	18		20
tert-Butylbenzene	ND	10	12	123		11	109		70-130	9		20
o-Chlorotoluene	ND	10	11	114		11	107		70-130	0		20
p-Chlorotoluene	ND	10	11	114		11	107		70-130	0		20
1,2-Dibromo-3-chloropropane	ND	10	8.5	85		6.0	60		41-144	**34**	Q	20
Hexachlorobutadiene	ND	10	12	117		11	106		63-130	9		20
Isopropylbenzene	ND	10	12	117		10	106		70-130	18		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-6 WG730521-7 QC Sample: L1424008-11 Client ID: MW-26												
p-Isopropyltoluene	ND	10	12	116		10	106		70-130	18		20
Naphthalene	ND	10	6.0	**60**	Q	5.7	**57**	Q	70-130	5		20
n-Propylbenzene	ND	10	11	112		10	102		69-130	10		20
1,2,3-Trichlorobenzene	ND	10	8.2	82		7.7	77		70-130	6		20
1,2,4-Trichlorobenzene	ND	10	9.2	92		8.6	86		70-130	7		20
1,3,5-Trimethylbenzene	ND	10	12	122		11	112		64-130	9		20
1,2,4-Trimethylbenzene	ND	10	12	118		11	109		70-130	9		20
Methyl Acetate	ND	10	4.4	**44**	Q	4.3	**43**	Q	70-130	2		20
Ethyl Acetate	ND	10	4.2J	**42**	Q	4.1J	**41**	Q	70-130	2		20
Cyclohexane	ND	10	8.6J	86		7.8J	78		70-130	10		20
Ethyl-Tert-Butyl-Ether	ND	10	9.5	95		9.0	90		70-130	5		20
Tertiary-Amyl Methyl Ether	ND	10	8.7	88		8.5	85		66-130	2		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	10	106		9.7	97		70-130	3		20
1,4-Diethylbenzene	ND	10	12	117		11	107		70-130	9		20
4-Ethyltoluene	ND	10	12	118		11	108		70-130	9		20
1,2,4,5-Tetramethylbenzene	ND	10	11	112		10	104		70-130	10		20
Ethyl ether	ND	10	7.8	78		7.6	76		59-134	3		20
trans-1,4-Dichloro-2-butene	ND	10	4.8	**48**	Q	5.0	**50**	Q	70-130	4		20
Methyl cyclohexane	ND	10	9.3J	93		8.5J	85		70-130	9		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-14 QC Batch ID: WG730521-6 WG730521-7 QC Sample: L1424008-11 Client ID: MW-26												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		112		70-130
4-Bromofluorobenzene	96		95		70-130
Dibromofluoromethane	116		115		70-130
Toluene-d8	95		96		70-130

METALS

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-01	Date Collected:	10/09/14 09:00
Client ID:	MW-32	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 12:46	EPA 3005A	1,6020A	KL
Calcium, Total	150		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 14:45	EPA 3005A	1,6010C	BC
Iron, Total	2.38		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 12:46	EPA 3005A	1,6020A	KL
Lead, Total	0.00028	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 12:46	EPA 3005A	1,6020A	KL
Magnesium, Total	70.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 14:45	EPA 3005A	1,6010C	BC
Manganese, Total	0.4193		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 12:46	EPA 3005A	1,6020A	KL
Potassium, Total	1.55		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 12:46	EPA 3005A	1,6020A	KL
Sodium, Total	33.1		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 12:46	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	660		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 14:45	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-02	Date Collected:	10/09/14 10:05
Client ID:	MW-33	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:27	EPA 3005A	1,6020A	KL
Calcium, Total	140		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:26	EPA 3005A	1,6010C	BC
Iron, Total	1.75		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:27	EPA 3005A	1,6020A	KL
Lead, Total	0.00015	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:27	EPA 3005A	1,6020A	KL
Magnesium, Total	62.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:26	EPA 3005A	1,6010C	BC
Manganese, Total	0.3768		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:27	EPA 3005A	1,6020A	KL
Potassium, Total	1.30		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:27	EPA 3005A	1,6020A	KL
Sodium, Total	36.8		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:27	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	610		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:26	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-03	Date Collected:	10/09/14 10:40
Client ID:	MW-24	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:30	EPA 3005A	1,6020A	KL
Calcium, Total	69.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:30	EPA 3005A	1,6010C	BC
Iron, Total	2.05		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:30	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:30	EPA 3005A	1,6020A	KL
Magnesium, Total	60.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:30	EPA 3005A	1,6010C	BC
Manganese, Total	0.1074		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:30	EPA 3005A	1,6020A	KL
Potassium, Total	26.4		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:30	EPA 3005A	1,6020A	KL
Sodium, Total	24.9		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:30	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	420		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:30	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-04	Date Collected:	10/09/14 11:20
Client ID:	MW-46	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.00014	J	mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:34	EPA 3005A	1,6020A	KL
Calcium, Total	120		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:34	EPA 3005A	1,6010C	BC
Iron, Total	0.650		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:34	EPA 3005A	1,6020A	KL
Lead, Total	0.00072	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:34	EPA 3005A	1,6020A	KL
Magnesium, Total	50.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:34	EPA 3005A	1,6010C	BC
Manganese, Total	0.4018		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:34	EPA 3005A	1,6020A	KL
Potassium, Total	2.92		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:34	EPA 3005A	1,6020A	KL
Sodium, Total	49.2		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:34	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	500		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:34	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-05	Date Collected:	10/09/14 11:50
Client ID:	MW-42	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.00005	J	mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:38	EPA 3005A	1,6020A	KL
Calcium, Total	88.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:38	EPA 3005A	1,6010C	BC
Iron, Total	3.10		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:38	EPA 3005A	1,6020A	KL
Lead, Total	0.00171		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:38	EPA 3005A	1,6020A	KL
Magnesium, Total	49.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:38	EPA 3005A	1,6010C	BC
Manganese, Total	0.5966		mg/l	0.01000	0.00604	20	10/16/14 10:56	10/17/14 14:41	EPA 3005A	1,6020A	KL
Potassium, Total	1.05		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:38	EPA 3005A	1,6020A	KL
Sodium, Total	14.7		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:38	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	420		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:38	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-06	Date Collected:	10/09/14 13:00
Client ID:	MW-25	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:42	EPA 3005A	1,6020A	KL
Calcium, Total	120		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:42	EPA 3005A	1,6010C	BC
Iron, Total	0.669		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:42	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:42	EPA 3005A	1,6020A	KL
Magnesium, Total	56.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:42	EPA 3005A	1,6010C	BC
Manganese, Total	0.2852		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:42	EPA 3005A	1,6020A	KL
Potassium, Total	3.98		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:42	EPA 3005A	1,6020A	KL
Sodium, Total	34.8		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:42	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	550		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:42	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-07	Date Collected:	10/09/14 13:35
Client ID:	MW-47	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:45	EPA 3005A	1,6020A	KL
Calcium, Total	120		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:46	EPA 3005A	1,6010C	BC
Iron, Total	0.224		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:45	EPA 3005A	1,6020A	KL
Lead, Total	0.00016	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:45	EPA 3005A	1,6020A	KL
Magnesium, Total	53.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:46	EPA 3005A	1,6010C	BC
Manganese, Total	0.2495		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:45	EPA 3005A	1,6020A	KL
Potassium, Total	3.54		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:45	EPA 3005A	1,6020A	KL
Sodium, Total	30.4		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:45	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	520		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:46	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-08	Date Collected:	10/09/14 14:00
Client ID:	MW-41	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.00009	J	mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:49	EPA 3005A	1,6020A	KL
Calcium, Total	54.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:50	EPA 3005A	1,6010C	BC
Iron, Total	2.27		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:49	EPA 3005A	1,6020A	KL
Lead, Total	0.00294		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:49	EPA 3005A	1,6020A	KL
Magnesium, Total	85.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:50	EPA 3005A	1,6010C	BC
Manganese, Total	0.2665		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:49	EPA 3005A	1,6020A	KL
Potassium, Total	4.11		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:49	EPA 3005A	1,6020A	KL
Sodium, Total	20.8		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:49	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	490		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:50	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-09	Date Collected:	10/09/14 14:40
Client ID:	MW-31	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:53	EPA 3005A	1,6020A	KL
Calcium, Total	82.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:53	EPA 3005A	1,6010C	BC
Iron, Total	0.592		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:53	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:53	EPA 3005A	1,6020A	KL
Magnesium, Total	52.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:53	EPA 3005A	1,6010C	BC
Manganese, Total	0.1516		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:53	EPA 3005A	1,6020A	KL
Potassium, Total	28.7		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:53	EPA 3005A	1,6020A	KL
Sodium, Total	30.3		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:53	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	420		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:53	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-10	Date Collected:	10/09/14 15:15
Client ID:	MW-30	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:56	EPA 3005A	1,6020A	KL
Calcium, Total	170		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:09	EPA 3005A	1,6010C	BC
Iron, Total	3.36		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:56	EPA 3005A	1,6020A	KL
Lead, Total	0.00023	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:56	EPA 3005A	1,6020A	KL
Magnesium, Total	80.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:09	EPA 3005A	1,6010C	BC
Manganese, Total	0.3535		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:56	EPA 3005A	1,6020A	KL
Potassium, Total	19.0		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:56	EPA 3005A	1,6020A	KL
Sodium, Total	51.4		mg/l	2.00	0.322	20	10/16/14 10:56	10/17/14 14:44	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	760		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:09	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-11	Date Collected:	10/09/14 08:40
Client ID:	MW-26	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 13:04	EPA 3005A	1,6020A	KL
Calcium, Total	73.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 15:00	EPA 3005A	1,6010C	BC
Iron, Total	0.432		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 13:04	EPA 3005A	1,6020A	KL
Lead, Total	0.00016	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 13:04	EPA 3005A	1,6020A	KL
Magnesium, Total	23.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 15:00	EPA 3005A	1,6010C	BC
Manganese, Total	0.1314		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 13:04	EPA 3005A	1,6020A	KL
Potassium, Total	1.24		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 13:04	EPA 3005A	1,6020A	KL
Sodium, Total	17.8		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 13:04	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	280		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 15:00	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-12	Date Collected:	10/09/14 09:20
Client ID:	MW-51	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:00	EPA 3005A	1,6020A	KL
Calcium, Total	28.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:13	EPA 3005A	1,6010C	BC
Iron, Total	0.0911		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:00	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:00	EPA 3005A	1,6020A	KL
Magnesium, Total	37.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:13	EPA 3005A	1,6010C	BC
Manganese, Total	0.00454		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:00	EPA 3005A	1,6020A	KL
Potassium, Total	1.72		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:00	EPA 3005A	1,6020A	KL
Sodium, Total	17.8		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:00	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	220		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:13	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-13	Date Collected:	10/09/14 10:10
Client ID:	MW-34	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:15	EPA 3005A	1,6020A	KL
Calcium, Total	44.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:17	EPA 3005A	1,6010C	BC
Iron, Total	0.600		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:15	EPA 3005A	1,6020A	KL
Lead, Total	0.00021	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:15	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:17	EPA 3005A	1,6010C	BC
Manganese, Total	0.1338		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:15	EPA 3005A	1,6020A	KL
Potassium, Total	1.37		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:15	EPA 3005A	1,6020A	KL
Sodium, Total	5.98		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:15	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	160		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:17	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-14	Date Collected:	10/09/14 10:40
Client ID:	MW-52	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:19	EPA 3005A	1,6020A	KL
Calcium, Total	49.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:21	EPA 3005A	1,6010C	BC
Iron, Total	0.475		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:19	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:19	EPA 3005A	1,6020A	KL
Magnesium, Total	14.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:21	EPA 3005A	1,6010C	BC
Manganese, Total	0.1059		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:19	EPA 3005A	1,6020A	KL
Potassium, Total	1.65		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:19	EPA 3005A	1,6020A	KL
Sodium, Total	9.24		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:19	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:21	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-15	Date Collected:	10/09/14 11:30
Client ID:	EBWEST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:11	EPA 3005A	1,6020A	KL
Calcium, Total	0.089	J	mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 17:00	EPA 3005A	1,6010C	BC
Iron, Total	ND		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:11	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:11	EPA 3005A	1,6020A	KL
Magnesium, Total	ND		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 17:00	EPA 3005A	1,6010C	BC
Manganese, Total	ND		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:11	EPA 3005A	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:11	EPA 3005A	1,6020A	KL
Sodium, Total	0.0345	J	mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:11	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	ND		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 17:00	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-16	Date Collected:	10/09/14 12:15
Client ID:	MW-35A	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:22	EPA 3005A	1,6020A	KL
Calcium, Total	44.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:28	EPA 3005A	1,6010C	BC
Iron, Total	0.448		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:22	EPA 3005A	1,6020A	KL
Lead, Total	0.00015	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:22	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:28	EPA 3005A	1,6010C	BC
Manganese, Total	0.1212		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:22	EPA 3005A	1,6020A	KL
Potassium, Total	1.53		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:22	EPA 3005A	1,6020A	KL
Sodium, Total	5.25		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:22	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	160		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:28	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-17	Date Collected:	10/09/14 12:45
Client ID:	MW-53	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:26	EPA 3005A	1,6020A	KL
Calcium, Total	44.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:32	EPA 3005A	1,6010C	BC
Iron, Total	1.13		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:26	EPA 3005A	1,6020A	KL
Lead, Total	0.00052	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:26	EPA 3005A	1,6020A	KL
Magnesium, Total	13.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:32	EPA 3005A	1,6010C	BC
Manganese, Total	0.06578		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:26	EPA 3005A	1,6020A	KL
Potassium, Total	1.15		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:26	EPA 3005A	1,6020A	KL
Sodium, Total	4.76		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:26	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:32	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-18	Date Collected:	10/09/14 13:30
Client ID:	MW-39	Date Received:	10/09/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.00010	J	mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:30	EPA 3005A	1,6020A	KL
Calcium, Total	48.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:36	EPA 3005A	1,6010C	BC
Iron, Total	0.448		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:30	EPA 3005A	1,6020A	KL
Lead, Total	0.00032	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:30	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:36	EPA 3005A	1,6010C	BC
Manganese, Total	0.6782		mg/l	0.01000	0.00604	20	10/16/14 10:56	10/17/14 15:07	EPA 3005A	1,6020A	KL
Potassium, Total	0.740		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:30	EPA 3005A	1,6020A	KL
Sodium, Total	1.09		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:30	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:36	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-19	Date Collected:	10/09/14 14:15
Client ID:	MW-54A	Date Received:	10/09/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:33	EPA 3005A	1,6020A	KL
Calcium, Total	30.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:40	EPA 3005A	1,6010C	BC
Iron, Total	0.404		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:33	EPA 3005A	1,6020A	KL
Lead, Total	0.00018	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:33	EPA 3005A	1,6020A	KL
Magnesium, Total	14.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:40	EPA 3005A	1,6010C	BC
Manganese, Total	0.02179		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:33	EPA 3005A	1,6020A	KL
Potassium, Total	1.56		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:33	EPA 3005A	1,6020A	KL
Sodium, Total	19.3		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:33	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	130		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:40	EPA 3005A	1,6010C	BC

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1424008-20	Date Collected:	10/09/14 14:45
Client ID:	MW-29	Date Received:	10/09/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 14:37	EPA 3005A	1,6020A	KL
Calcium, Total	48.		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 16:44	EPA 3005A	1,6010C	BC
Iron, Total	0.627		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 14:37	EPA 3005A	1,6020A	KL
Lead, Total	0.00022	J	mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 14:37	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 16:44	EPA 3005A	1,6010C	BC
Manganese, Total	0.07065		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 14:37	EPA 3005A	1,6020A	KL
Potassium, Total	1.09		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 14:37	EPA 3005A	1,6020A	KL
Sodium, Total	9.36		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 14:37	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	170		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 16:44	EPA 3005A	1,6010C	BC

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-20 Batch: WG731639-1										
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 10:56	10/17/14 12:42	1,6020A	KL
Iron, Total	ND		mg/l	0.0500	0.0120	1	10/16/14 10:56	10/17/14 12:42	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 10:56	10/17/14 12:42	1,6020A	KL
Manganese, Total	ND		mg/l	0.00050	0.00030	1	10/16/14 10:56	10/17/14 12:42	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0193	1	10/16/14 10:56	10/17/14 12:42	1,6020A	KL
Sodium, Total	ND		mg/l	0.100	0.0161	1	10/16/14 10:56	10/17/14 12:42	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-20 Batch: WG731642-1										
Calcium, Total	ND		mg/l	0.10	0.030	1	10/16/14 10:56	10/16/14 14:37	1,6010C	BC
Magnesium, Total	ND		mg/l	0.10	0.010	1	10/16/14 10:56	10/16/14 14:37	1,6010C	BC

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-20 Batch: WG731642-1										
Hardness	ND		mg/l	0.66	NA	1	10/16/14 10:56	10/16/14 14:37	1,6010C	BC

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 Batch: WG731639-2								
Cadmium, Total	109		-		80-120	-		
Iron, Total	110		-		80-120	-		
Lead, Total	106		-		80-120	-		
Manganese, Total	106		-		80-120	-		
Potassium, Total	112		-		80-120	-		
Sodium, Total	117		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01-20 Batch: WG731642-2								
Calcium, Total	100		-		80-120	-		
Magnesium, Total	110		-		80-120	-		
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-20 Batch: WG731642-2								
Hardness	106		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG731639-3 WG731639-4 QC Sample: L1424008-01 Client ID: MW-32												
Cadmium, Total	ND	0.051	0.06226	122		0.05952	117		75-125	4		20
Iron, Total	2.38	1	3.72	**134**	Q	3.38	100		75-125	10		20
Lead, Total	0.00028J	0.51	0.5654	111		0.5574	109		75-125	1		20
Manganese, Total	0.4193	0.5	0.9880	114		0.9372	104		75-125	5		20
Potassium, Total	1.55	10	15.0	**134**	Q	14.6	**130**	Q	75-125	3		20
Sodium, Total	33.1	10	23.1	**0**	Q	22.5	**0**	Q	75-125	3		20
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG731639-7 WG731639-8 QC Sample: L1424008-11 Client ID: MW-26												
Cadmium, Total	ND	0.051	0.05516	108		0.05852	115		75-125	6		20
Iron, Total	0.432	1	1.37	94		1.41	98		75-125	3		20
Lead, Total	0.00016J	0.51	0.5444	107		0.5532	108		75-125	2		20
Manganese, Total	0.1314	0.5	0.6590	106		0.6628	106		75-125	1		20
Potassium, Total	1.24	10	14.0	**128**	Q	14.3	**131**	Q	75-125	2		20
Sodium, Total	17.8	10	24.6	**68**	Q	24.3	**65**	Q	75-125	1		20
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG731642-3 WG731642-4 QC Sample: L1424008-01 Client ID: MW-32												
Calcium, Total	150	10	150	**0**	Q	150	**0**	Q	75-125	0		20
Magnesium, Total	70.	10	78	80		76	**60**	Q	75-125	3		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG731642-3 WG731642-4 QC Sample: L1424008-01 Client ID: MW-32												
Hardness	660	66.2	700	**60**	Q	680	**30**	Q	75-125	3		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery		Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG731642-7 WG731642-8 QC Sample: L1424008-11 Client ID: MW-26											
Calcium, Total	73.	10	81	80		86	**130**	Q	75-125	6	20
Magnesium, Total	23.	10	34	110		35	120		75-125	3	20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG731642-7 WG731642-8 QC Sample: L1424008-11 Client ID: MW-26											
Hardness	280	66.2	340	91		360	121		75-125	6	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-01
Client ID: MW-32
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 09:00
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	382.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	800		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.186		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 22:58	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/10/14 22:42	44,353.2	DB
Nitrogen, Total Kjeldahl	0.42		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:03	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.5	J	mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.870		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:01	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.408	25	-	10/15/14 00:24	44,300.0	AU
Chloride	148.		mg/l	12.5	2.44	25	-	10/15/14 00:24	44,300.0	AU
Sulfate	147.		mg/l	25.0	3.25	25	-	10/15/14 00:24	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-02
Client ID: MW-33
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 10:05
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	374.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	750		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.187		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:00	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/10/14 22:46	44,353.2	DB
Nitrogen, Total Kjeldahl	0.46		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:05	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	12.		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.730		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:05	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.408	25	-	10/15/14 19:47	44,300.0	AU
Chloride	172.		mg/l	12.5	2.44	25	-	10/15/14 19:47	44,300.0	AU
Sulfate	119.		mg/l	25.0	3.25	25	-	10/15/14 19:47	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-03
Client ID: MW-24
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 10:40
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	393.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	510		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.596		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:01	44,350.1	AT
Nitrogen, Nitrate	0.12		mg/l	0.10	0.021	1	-	10/10/14 22:47	44,353.2	DB
Nitrogen, Total Kjeldahl	0.67		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:06	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.3	J	mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	1.02		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:06	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.250	0.081	5	-	10/15/14 19:59	44,300.0	AU
Chloride	20.0		mg/l	2.50	0.487	5	-	10/15/14 19:59	44,300.0	AU
Sulfate	76.8		mg/l	5.00	0.650	5	-	10/15/14 19:59	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-04
Client ID: MW-46
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 11:20
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	369.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	670		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.227		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:04	44,350.1	AT
Nitrogen, Nitrate	0.25		mg/l	0.10	0.021	1	-	10/10/14 22:48	44,353.2	DB
Nitrogen, Total Kjeldahl	0.43		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:07	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	5.0	J	mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	1.30		mg/l	1.00	0.236	2	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:09	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 20:11	44,300.0	AU
Chloride	128.		mg/l	5.00	0.974	10	-	10/15/14 20:11	44,300.0	AU
Sulfate	89.8		mg/l	10.0	1.30	10	-	10/15/14 20:11	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-05
Client ID: MW-42
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 11:50
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	389.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	490		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.024	J	mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:05	44,350.1	AT
Nitrogen, Nitrate	0.15		mg/l	0.10	0.021	1	-	10/10/14 22:49	44,353.2	DB
Nitrogen, Total Kjeldahl	0.23	J	mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:08	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	19.		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.990		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:10	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.250	0.081	5	-	10/15/14 20:23	44,300.0	AU
Chloride	9.58		mg/l	2.50	0.487	5	-	10/15/14 20:23	44,300.0	AU
Sulfate	71.3		mg/l	5.00	0.650	5	-	10/15/14 20:23	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-06
Client ID: MW-25
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 13:00
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	392.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	720		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.280		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:06	44,350.1	AT
Nitrogen, Nitrate	0.17		mg/l	0.10	0.021	1	-	10/10/14 22:49	44,353.2	DB
Nitrogen, Total Kjeldahl	0.54		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:11	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.800		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:11	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 20:35	44,300.0	AU
Chloride	109.		mg/l	5.00	0.974	10	-	10/15/14 20:35	44,300.0	AU
Sulfate	112.		mg/l	10.0	1.30	10	-	10/15/14 20:35	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-07
Client ID: MW-47
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 13:35
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	370.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	630		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.355		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:07	44,350.1	AT
Nitrogen, Nitrate	0.064	J	mg/l	0.10	0.021	1	-	10/10/14 22:50	44,353.2	DB
Nitrogen, Total Kjeldahl	0.58		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:12	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:02	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.950		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	0.030		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:12	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 21:11	44,300.0	AU
Chloride	92.2		mg/l	5.00	0.974	10	-	10/15/14 21:11	44,300.0	AU
Sulfate	105.		mg/l	10.0	1.30	10	-	10/15/14 21:11	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-08
Client ID: MW-41
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 14:00
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	426.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	550		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:08	44,350.1	AT
Nitrogen, Nitrate	0.14		mg/l	0.10	0.021	1	-	10/10/14 22:51	44,353.2	DB
Nitrogen, Total Kjeldahl	0.34		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:13	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	28.		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	2.01		mg/l	1.00	0.236	2	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:13	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 21:23	44,300.0	AU
Chloride	10.4		mg/l	5.00	0.974	10	-	10/15/14 21:23	44,300.0	AU
Sulfate	86.5		mg/l	10.0	1.30	10	-	10/15/14 21:23	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-09
Client ID: MW-31
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 14:40
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	345.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	590		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	1.24		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:09	44,350.1	AT
Nitrogen, Nitrate	0.47		mg/l	0.10	0.021	1	-	10/10/14 22:51	44,353.2	DB
Nitrogen, Total Kjeldahl	1.2		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:14	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	12.		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:03	44,410.4	TL
BOD, 5 day	6.7		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	1.07		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:14	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 21:35	44,300.0	AU
Chloride	78.4		mg/l	5.00	0.974	10	-	10/15/14 21:35	44,300.0	AU
Sulfate	102.		mg/l	10.0	1.30	10	-	10/15/14 21:35	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-10
Client ID: MW-30
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 15:15
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	300.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	1100		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	1.10		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:10	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/10/14 22:54	44,353.2	DB
Nitrogen, Total Kjeldahl	1.3		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:15	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	19.		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:03	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	1.09		mg/l	1.00	0.236	2	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 14:15	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.408	25	-	10/15/14 21:47	44,300.0	AU
Chloride	431.		mg/l	12.5	2.44	25	-	10/15/14 21:47	44,300.0	AU
Sulfate	54.7		mg/l	25.0	3.25	25	-	10/15/14 21:47	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-11
Client ID: MW-26
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 08:40
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	268.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	360		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.190		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:10	44,350.1	AT
Nitrogen, Nitrate	0.052	J	mg/l	0.10	0.021	1	-	10/10/14 23:06	44,353.2	DB
Nitrogen, Total Kjeldahl	0.28	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:43	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	5.0	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:56	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.500		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	0.009	J	mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 17:07	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.100	0.032	2	-	10/15/14 19:35	44,300.0	AU
Chloride	2.22		mg/l	1.00	0.195	2	-	10/15/14 19:35	44,300.0	AU
Sulfate	71.0		mg/l	2.00	0.260	2	-	10/15/14 19:35	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-12
Client ID: MW-51
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 09:20
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	188.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	170		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.280		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:16	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/10/14 22:55	44,353.2	DB
Nitrogen, Total Kjeldahl	0.41		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:15	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.5	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:56	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.490	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 17:11	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.100	0.032	2	-	10/15/14 21:59	44,300.0	AU
Chloride	2.60		mg/l	1.00	0.195	2	-	10/15/14 21:59	44,300.0	AU
Sulfate	57.6		mg/l	2.00	0.260	2	-	10/15/14 21:59	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-13
Client ID: MW-34
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 10:10
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	170.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	210		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.102		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:16	44,350.1	AT
Nitrogen, Nitrate	0.16		mg/l	0.10	0.021	1	-	10/10/14 22:55	44,353.2	DB
Nitrogen, Total Kjeldahl	0.33		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:16	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	5.0	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:56	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.420	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:12	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 22:11	44,300.0	AU
Chloride	1.40		mg/l	0.500	0.097	1	-	10/15/14 22:11	44,300.0	AU
Sulfate	28.2		mg/l	1.00	0.130	1	-	10/15/14 22:11	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-14
Client ID: MW-52
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 10:40
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	181.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	210		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.115		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:17	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/10/14 22:56	44,353.2	DB
Nitrogen, Total Kjeldahl	0.26	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:53	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:56	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.420	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:38	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 22:23	44,300.0	AU
Chloride	1.39		mg/l	0.500	0.097	1	-	10/15/14 22:23	44,300.0	AU
Sulfate	29.6		mg/l	1.00	0.130	1	-	10/15/14 22:23	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-15
Client ID: EBWEST
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 11:30
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:18	44,350.1	AT
Nitrogen, Nitrate	0.031	J	mg/l	0.10	0.021	1	-	10/10/14 22:57	44,353.2	DB
Nitrogen, Total Kjeldahl	0.096	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:56	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:56	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.190	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:39	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 22:47	44,300.0	AU
Chloride	ND		mg/l	0.500	0.097	1	-	10/15/14 22:47	44,300.0	AU
Sulfate	0.185	J	mg/l	1.00	0.130	1	-	10/15/14 22:47	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-16
Client ID: MW-35A
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 12:15
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	160.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	200		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.113		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:19	44,350.1	AT
Nitrogen, Nitrate	0.068	J	mg/l	0.10	0.021	1	-	10/10/14 22:58	44,353.2	DB
Nitrogen, Total Kjeldahl	0.27	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:54	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:56	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.430	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:40	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 22:35	44,300.0	AU
Chloride	1.36		mg/l	0.500	0.097	1	-	10/15/14 22:35	44,300.0	AU
Sulfate	25.8		mg/l	1.00	0.130	1	-	10/15/14 22:35	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-17
Client ID: MW-53
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 12:45
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	158.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	200		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
Nitrogen, Ammonia	0.042	J	mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:20	44,350.1	AT
Nitrogen, Nitrate	0.038	J	mg/l	0.10	0.021	1	-	10/10/14 22:58	44,353.2	DB
Nitrogen, Total Kjeldahl	0.20	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:55	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.3	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:57	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.490	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:41	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 23:23	44,300.0	AU
Chloride	1.30		mg/l	0.500	0.097	1	-	10/15/14 23:23	44,300.0	AU
Sulfate	30.0		mg/l	1.00	0.130	1	-	10/15/14 23:23	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-18
Client ID: MW-39
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 13:30
Date Received: 10/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	161.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	200		mg/l	10	3.6	1	-	10/14/14 12:20	30,2540C	DW
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:21	44,350.1	AT
Nitrogen, Nitrate	0.14		mg/l	0.10	0.021	1	-	10/10/14 22:59	44,353.2	DB
Nitrogen, Total Kjeldahl	0.19	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 20:59	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.3	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:57	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.540		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:42	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 23:35	44,300.0	AU
Chloride	1.05		mg/l	0.500	0.097	1	-	10/15/14 23:35	44,300.0	AU
Sulfate	20.2		mg/l	1.00	0.130	1	-	10/15/14 23:35	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-19
Client ID: MW-54A
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 14:15
Date Received: 10/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	157.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	210		mg/l	10	3.6	1	-	10/14/14 12:20	30,2540C	DW
Nitrogen, Ammonia	0.222		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:22	44,350.1	AT
Nitrogen, Nitrate	0.037	J	mg/l	0.10	0.021	1	-	10/10/14 23:00	44,353.2	DB
Nitrogen, Total Kjeldahl	0.38		mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 21:00	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.3	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:57	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.460	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:42	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 23:47	44,300.0	AU
Chloride	0.822		mg/l	0.500	0.097	1	-	10/15/14 23:47	44,300.0	AU
Sulfate	20.5		mg/l	1.00	0.130	1	-	10/15/14 23:47	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1424008-20
Client ID: MW-29
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/09/14 14:45
Date Received: 10/09/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	168.		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/10/14 20:38	30,2520B	MR
Solids, Total Dissolved	230		mg/l	10	3.6	1	-	10/14/14 12:20	30,2540C	DW
Nitrogen, Ammonia	0.029	J	mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 23:22	44,350.1	AT
Nitrogen, Nitrate	0.075	J	mg/l	0.10	0.021	1	-	10/10/14 23:00	44,353.2	DB
Nitrogen, Total Kjeldahl	0.16	J	mg/l	0.30	0.093	1	10/14/14 16:45	10/15/14 21:01	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	7.3	J	mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:57	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
Total Organic Carbon	0.430	J	mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Phenolics, Total	0.011	J	mg/l	0.030	0.009	1	10/13/14 14:30	10/13/14 17:43	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 23:59	44,300.0	AU
Chloride	1.53		mg/l	0.500	0.097	1	-	10/15/14 23:59	44,300.0	AU
Sulfate	35.1		mg/l	1.00	0.130	1	-	10/15/14 23:59	44,300.0	AU

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10,12-20 Batch: WG730034-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG730036-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	10/10/14 20:00	10/15/14 14:10	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 01-10,12-20 Batch: WG730063-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/10/14 22:30	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG730064-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/10/14 22:32	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 01-10,12-13 Batch: WG730104-1										
Nitrogen, Total Kjeldahl	0.14	J	mg/l	0.30	0.031	1	10/10/14 22:42	10/14/14 22:00	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG730105-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 22:53	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 11-20 Batch: WG730106-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	10/10/14 22:54	10/14/14 22:54	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG730174-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/11/14 10:05	10/11/14 13:00	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG730343-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
General Chemistry - Westborough Lab for sample(s): 11-17 Batch: WG730344-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	10/13/14 13:00	30,2540C	JT
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG730397-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 13:59	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 11-20 Batch: WG730399-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/13/14 11:15	10/13/14 17:04	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 18-20 Batch: WG730737-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	10/14/14 12:20	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG730928-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG730973-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 11-20 Batch: WG730974-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/14/14 09:27	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 11,14-20 Batch: WG730996-1										
Nitrogen, Total Kjeldahl	0.11	J	mg/l	0.30	0.031	1	10/14/14 16:45	10/15/14 20:39	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 02-20 Batch: WG731339-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	10/15/14 07:11	30,5310C	DW
Anions by Ion Chromatography - Westborough Lab for sample(s): 01 Batch: WG731491-1										
Bromide	ND		mg/l	0.050	0.016	1	-	10/14/14 23:36	44,300.0	AU
Chloride	ND		mg/l	0.500	0.097	1	-	10/14/14 23:36	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.130	1	-	10/14/14 23:36	44,300.0	AU
General Chemistry - Westborough Lab for sample(s): 11-20 Batch: WG731735-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/16/14 14:50	10/16/14 18:54	44,410.4	TL
Anions by Ion Chromatography - Westborough Lab for sample(s): 02-20 Batch: WG731877-1										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 18:46	44,300.0	AU
Chloride	ND		mg/l	0.500	0.097	1	-	10/15/14 18:46	44,300.0	AU
Sulfate	0.166	J	mg/l	1.00	0.130	1	-	10/15/14 18:46	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-20 Batch: WG730034-2								
BOD, 5 day	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG730036-2								
BOD, 5 day	103		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-20 Batch: WG730063-2								
Nitrogen, Nitrate	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG730064-2								
Nitrogen, Nitrate	101		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG730079-1								
SALINITY	99		-			-		
General Chemistry - Westborough Lab Associated sample(s): 11-20 Batch: WG730081-1								
SALINITY	99		-			-		
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-13 Batch: WG730104-2								
Nitrogen, Total Kjeldahl	100		-		78-122	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG730105-2					
Nitrogen, Ammonia	99	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 11-20 Batch: WG730106-2					
Nitrogen, Ammonia	99	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG730174-2					
Chemical Oxygen Demand	96	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG730343-2					
Solids, Total Dissolved	99	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 11-17 Batch: WG730344-2					
Solids, Total Dissolved	99	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG730397-2					
Phenolics, Total	98	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 11-20 Batch: WG730399-2					
Phenolics, Total	98	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 18-20 Batch: WG730737-2					
Solids, Total Dissolved	99	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG730928-2					
Total Organic Carbon	98	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG730973-3					
Alkalinity, Total	103	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 11-20 Batch: WG730974-3					
Alkalinity, Total	103	-	90-110	-	10
General Chemistry - Westborough Lab Associated sample(s): 11,14-20 Batch: WG730996-2					
Nitrogen, Total Kjeldahl	105	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 02-20 Batch: WG731339-2					
Total Organic Carbon	96	-	90-110	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 Batch: WG731491-2					
Bromide	92	-	90-110	-	
Chloride	96	-	90-110	-	
Sulfate	101	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 11-20 Batch: WG731735-2					
Chemical Oxygen Demand	105	-	95-105	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-20 Batch: WG731877-2					
Bromide	90	-	90-110	-	
Chloride	97	-	90-110	-	
Sulfate	106	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-20 QC Batch ID: WG730034-4 QC Sample: L1424008-01 Client ID: MW-32												
BOD, 5 day	ND	100	100	101		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG730036-4 QC Sample: L1424008-11 Client ID: MW-26												
BOD, 5 day	ND	100	110	110		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-20 QC Batch ID: WG730063-4 QC Sample: L1424008-01 Client ID: MW-32												
Nitrogen, Nitrate	ND	4	4.2	104		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG730064-4 QC Sample: L1424008-11 Client ID: MW-26												
Nitrogen, Nitrate	0.052J	4	3.9	97		-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-13 QC Batch ID: WG730104-4 QC Sample: L1424008-01 Client ID: MW-32												
Nitrogen, Total Kjeldahl	0.42	8	8.3	98		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730105-4 QC Sample: L1424008-01 Client ID: MW-32												
Nitrogen, Ammonia	0.186	4	3.63	86		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG730106-4 QC Sample: L1424008-11 Client ID: MW-26												
Nitrogen, Ammonia	0.190	4	3.65	86		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730174-3 QC Sample: L1424008-01 Client ID: MW-32												
Chemical Oxygen Demand	9.5J	47.6	50	105		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730397-4 QC Sample: L1424008-01 Client ID: MW-32												
Phenolics, Total	ND	0.4	0.37	93		-	-		70-130	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG730399-4 QC Sample: L1424008-11 Client ID: MW-26									
Phenolics, Total	0.009J	0.4	0.38	96	-	-	70-130	-	20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG730928-4 QC Sample: L1424008-01 Client ID: MW-32									
Total Organic Carbon	0.870	4	4.22	84	-	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730973-4 QC Sample: L1424008-01 Client ID: MW-32									
Alkalinity, Total	382.	100	489	107	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG730974-4 QC Sample: L1424008-11 Client ID: MW-26									
Alkalinity, Total	268.	100	366	98	-	-	86-116	-	10
General Chemistry - Westborough Lab Associated sample(s): 11,14-20 QC Batch ID: WG730996-4 QC Sample: L1424008-11 Client ID: MW-26									
Nitrogen, Total Kjeldahl	0.28J	8	7.2	90	-	-	77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 02-20 QC Batch ID: WG731339-4 QC Sample: L1424008-11 Client ID: MW-26									
Total Organic Carbon	0.500	4	3.99	87	-	-	80-120	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01 QC Batch ID: WG731491-3 WG731491-4 QC Sample: L1424008-01 Client ID: MW-32									
Bromide	ND	10	8.34	83	8.36	85	77-119	0	20
Chloride	148.	100	258	110	258	110	40-151	0	18
Sulfate	147.	200	390	122	379	116	60-140	3	20
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG731735-3 QC Sample: L1424008-11 Client ID: MW-26									
Chemical Oxygen Demand	5.0J	47.6	53	111	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 02-20 QC Batch ID: WG731877-3 WG731877-4 QC Sample: L1424008-11 Client ID: MW-26									
Bromide	ND	2	1.65	83	1.64	82	77-119	1	20
Chloride	2.22	20	22.6	102	22.5	102	40-151	0	18
Sulfate	71.0	40	119	120	116	111	60-140	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-20 QC Batch ID: WG730034-3 QC Sample: L1424008-01 Client ID: MW-32						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG730036-3 QC Sample: L1424008-11 Client ID: MW-26						
BOD, 5 day	ND	ND	mg/l	NC		35
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-20 QC Batch ID: WG730063-3 QC Sample: L1424008-01 Client ID: MW-32						
Nitrogen, Nitrate	ND	0.022J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG730064-3 QC Sample: L1424008-11 Client ID: MW-26						
Nitrogen, Nitrate	0.052J	0.041J	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730079-2 QC Sample: L1424008-01 Client ID: MW-32						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG730081-2 QC Sample: L1424008-11 Client ID: MW-26						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 01-10,12-13 QC Batch ID: WG730104-3 QC Sample: L1424008-01 Client ID: MW-32						
Nitrogen, Total Kjeldahl	0.42	0.43	mg/l	2		24
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730105-3 QC Sample: L1424008-01 Client ID: MW-32						
Nitrogen, Ammonia	0.186	0.184	mg/l	1		20
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG730106-3 QC Sample: L1424008-11 Client ID: MW-26						
Nitrogen, Ammonia	0.190	0.188	mg/l	1		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730174-4 QC Sample: L1424008-01 Client ID: MW-32					
Chemical Oxygen Demand	9.5J	9.5J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730343-3 QC Sample: L1424008-01 Client ID: MW-32					
Solids, Total Dissolved	800	780	mg/l	3	17
General Chemistry - Westborough Lab Associated sample(s): 11-17 QC Batch ID: WG730344-3 QC Sample: L1424008-11 Client ID: MW-26					
Solids, Total Dissolved	360	330	mg/l	9	17
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730397-3 QC Sample: L1424008-01 Client ID: MW-32					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG730399-3 QC Sample: L1424008-11 Client ID: MW-26					
Phenolics, Total	0.009J	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 18-20 QC Batch ID: WG730737-3 QC Sample: L1424083-01 Client ID: DUP Sample					
Solids, Total Dissolved	8300	8100	mg/l	2	17
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG730928-3 QC Sample: L1424008-01 Client ID: MW-32					
Total Organic Carbon	0.870	0.940	mg/l	8	20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG730973-2 QC Sample: L1424008-01 Client ID: MW-32					
Alkalinity, Total	382.	391	mg CaCO3/L	2	10
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG730974-2 QC Sample: L1424008-11 Client ID: MW-26					
Alkalinity, Total	268.	274	mg CaCO3/L	2	10

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11,14-20 QC Batch ID: WG730996-3 QC Sample: L1424008-11 Client ID: MW-26					
Nitrogen, Total Kjeldahl	0.28J	0.31	mg/l	NC	24
General Chemistry - Westborough Lab Associated sample(s): 02-20 QC Batch ID: WG731339-3 QC Sample: L1424008-11 Client ID: MW-26					
Total Organic Carbon	0.500	0.450J	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 11-20 QC Batch ID: WG731735-4 QC Sample: L1424008-11 Client ID: MW-26					
Chemical Oxygen Demand	5.0J	7.3J	mg/l	NC	20

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
D	Absent
I	Absent
B	Absent
C	Absent
E	Absent
H	Absent
F	Absent
G	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-01A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01A1	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01A2	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01B1	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01B2	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01C1	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01C2	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-01D	Vial H2SO4 preserved	D	N/A	5.2	Y	Absent	TOC-5310(28)
L1424008-01D1	Vial H2SO4 preserved	D	N/A	5.2	Y	Absent	TOC-5310(28)
L1424008-01D2	Vial H2SO4 preserved	D	N/A	5.2	Y	Absent	TOC-5310(28)
L1424008-01E	Vial H2SO4 preserved	D	N/A	5.2	Y	Absent	TOC-5310(28)
L1424008-01E1	Vial H2SO4 preserved	D	N/A	5.2	Y	Absent	TOC-5310(28)
L1424008-01E2	Vial H2SO4 preserved	D	N/A	5.2	Y	Absent	TOC-5310(28)
L1424008-01F	Plastic 250ml unpreserved	D	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1424008-01F1	Plastic 250ml unpreserved	D	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1424008-01F2	Plastic 250ml unpreserved	D	N/A	5.2	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-01G	Plastic 250ml NaOH preserved	D	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1424008-01G1	Plastic 250ml NaOH preserved	D	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1424008-01G2	Plastic 250ml NaOH preserved	D	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1424008-01H	Plastic 250ml HNO3 preserved	D	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-01H1	Plastic 250ml HNO3 preserved	D	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-01H2	Plastic 250ml HNO3 preserved	D	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-01I	Plastic 500ml unpreserved	D	7	5.2	Y	Absent	BOD-5210(2)
L1424008-01I1	Plastic 500ml unpreserved	D	7	5.2	Y	Absent	BOD-5210(2)
L1424008-01I2	Plastic 500ml unpreserved	D	7	5.2	Y	Absent	BOD-5210(2)
L1424008-01J	Plastic 500ml H2SO4 preserved	D	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-01J1	Plastic 250ml H2SO4 preserved	D	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-01J2	Plastic 250ml H2SO4 preserved	D	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-01K	Amber 250ml unpreserved	D	7	5.2	Y	Absent	SALINITY(28)
L1424008-01K1	Amber 250ml unpreserved	D	7	5.2	Y	Absent	SALINITY(28)
L1424008-01K2	Amber 250ml unpreserved	D	7	5.2	Y	Absent	SALINITY(28)
L1424008-01L	Amber 500ml H2SO4 preserved	D	<2	5.2	Y	Absent	TPHENOL-420(28)
L1424008-01L1	Amber 500ml H2SO4 preserved	D	<2	5.2	Y	Absent	TPHENOL-420(28)
L1424008-01L2	Amber 500ml H2SO4 preserved	D	<2	5.2	Y	Absent	TPHENOL-420(28)
L1424008-01M	Plastic 1000ml unpreserved	D	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-01M1	Plastic 1000ml unpreserved	D	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-01M2	Plastic 1000ml unpreserved	D	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-02A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-02B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-02C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-02D	Vial H2SO4 preserved	I	N/A	4.4	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-02E	Vial H2SO4 preserved	I	N/A	4.4	Y	Absent	TOC-5310(28)
L1424008-02F	Plastic 250ml unpreserved	I	N/A	4.4	Y	Absent	ALK-T-2320(14)
L1424008-02G	Plastic 250ml NaOH preserved	I	>12	4.4	Y	Absent	HOLD-WETCHEM(0)
L1424008-02H	Plastic 250ml HNO3 preserved	I	<2	4.4	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-02I	Plastic 500ml unpreserved	I	7	4.4	Y	Absent	BOD-5210(2)
L1424008-02J	Plastic 500ml H2SO4 preserved	I	<2	4.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-02K	Amber 250ml unpreserved	I	7	4.4	Y	Absent	SALINITY(28)
L1424008-02L	Amber 500ml H2SO4 preserved	I	<2	4.4	Y	Absent	TPHENOL-420(28)
L1424008-02M	Plastic 1000ml unpreserved	I	7	4.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-03A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-03B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-03C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-03D	Vial H2SO4 preserved	C	N/A	4.9	Y	Absent	TOC-5310(28)
L1424008-03E	Vial H2SO4 preserved	C	N/A	4.9	Y	Absent	TOC-5310(28)
L1424008-03F	Plastic 250ml unpreserved	C	N/A	4.9	Y	Absent	ALK-T-2320(14)
L1424008-03G	Plastic 250ml NaOH preserved	C	>12	4.9	Y	Absent	HOLD-WETCHEM(0)
L1424008-03H	Plastic 250ml HNO3 preserved	C	<2	4.9	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-03I	Plastic 500ml unpreserved	C	7	4.9	Y	Absent	BOD-5210(2)
L1424008-03J	Plastic 500ml H2SO4 preserved	C	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-03K	Amber 250ml unpreserved	C	7	4.9	Y	Absent	SALINITY(28)
L1424008-03L	Amber 500ml H2SO4 preserved	C	<2	4.9	Y	Absent	TPHENOL-420(28)
L1424008-03M	Plastic 1000ml unpreserved	C	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-04A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-04B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-04C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-04D	Vial H2SO4 preserved	B	N/A	5.5	Y	Absent	TOC-5310(28)
L1424008-04E	Vial H2SO4 preserved	B	N/A	5.5	Y	Absent	TOC-5310(28)
L1424008-04F	Plastic 250ml unpreserved	B	N/A	5.5	Y	Absent	ALK-T-2320(14)
L1424008-04G	Plastic 250ml NaOH preserved	B	>12	5.5	Y	Absent	HOLD-WETCHEM(0)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-04H	Plastic 250ml HNO3 preserved	B	<2	5.5	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-04I	Plastic 500ml unpreserved	B	7	5.5	Y	Absent	BOD-5210(2)
L1424008-04J	Plastic 500ml H2SO4 preserved	B	<2	5.5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-04K	Amber 250ml unpreserved	B	7	5.5	Y	Absent	SALINITY(28)
L1424008-04L	Amber 500ml H2SO4 preserved	B	<2	5.5	Y	Absent	TPHENOL-420(28)
L1424008-04M	Plastic 1000ml unpreserved	B	7	5.5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-05A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-05B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-05C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-05D	Vial H2SO4 preserved	C	N/A	4.9	Y	Absent	TOC-5310(28)
L1424008-05E	Vial H2SO4 preserved	C	N/A	4.9	Y	Absent	TOC-5310(28)
L1424008-05F	Plastic 250ml unpreserved	C	N/A	4.9	Y	Absent	ALK-T-2320(14)
L1424008-05G	Plastic 250ml NaOH preserved	C	>12	4.9	Y	Absent	HOLD-WETCHEM(0)
L1424008-05H	Plastic 250ml HNO3 preserved	C	<2	4.9	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-05I	Plastic 500ml unpreserved	C	7	4.9	Y	Absent	BOD-5210(2)
L1424008-05J	Plastic 500ml H2SO4 preserved	C	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-05K	Amber 250ml unpreserved	C	7	4.9	Y	Absent	SALINITY(28)
L1424008-05L	Amber 500ml H2SO4 preserved	C	<2	4.9	Y	Absent	TPHENOL-420(28)
L1424008-05M	Plastic 1000ml unpreserved	C	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-06A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-06B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-06C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-06D	Vial H2SO4 preserved	C	N/A	4.9	Y	Absent	TOC-5310(28)
L1424008-06E	Vial H2SO4 preserved	C	N/A	4.9	Y	Absent	TOC-5310(28)
L1424008-06F	Plastic 250ml unpreserved	C	N/A	4.9	Y	Absent	ALK-T-2320(14)
L1424008-06G	Plastic 250ml NaOH preserved	C	>12	4.9	Y	Absent	HOLD-WETCHEM(0)
L1424008-06H	Plastic 250ml HNO3 preserved	C	<2	4.9	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-06I	Plastic 500ml unpreserved	C	7	4.9	Y	Absent	BOD-5210(2)
L1424008-06J	Plastic 500ml H2SO4 preserved	C	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-06K	Amber 250ml unpreserved	C	7	4.9	Y	Absent	SALINITY(28)
L1424008-06L	Amber 500ml H2SO4 preserved	C	<2	4.9	Y	Absent	TPHENOL-420(28)
L1424008-06M	Plastic 1000ml unpreserved	C	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-07A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-07B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-07C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-07D	Vial H2SO4 preserved	B	N/A	5.5	Y	Absent	TOC-5310(28)
L1424008-07E	Vial H2SO4 preserved	B	N/A	5.5	Y	Absent	TOC-5310(28)
L1424008-07F	Plastic 250ml unpreserved	B	N/A	5.5	Y	Absent	ALK-T-2320(14)
L1424008-07G	Plastic 250ml NaOH preserved	B	>12	5.5	Y	Absent	HOLD-WETCHEM(0)
L1424008-07H	Plastic 250ml HNO3 preserved	B	<2	5.5	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-07I	Plastic 500ml unpreserved	B	7	5.5	Y	Absent	BOD-5210(2)
L1424008-07J	Plastic 500ml H2SO4 preserved	B	<2	5.5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-07K	Amber 250ml unpreserved	B	7	5.5	Y	Absent	SALINITY(28)
L1424008-07L	Amber 500ml H2SO4 preserved	B	<2	5.5	Y	Absent	TPHENOL-420(28)
L1424008-07M	Plastic 1000ml unpreserved	B	7	5.5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-08A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-08B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-08C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-08D	Vial H2SO4 preserved	I	N/A	4.4	Y	Absent	TOC-5310(28)
L1424008-08E	Vial H2SO4 preserved	I	N/A	4.4	Y	Absent	TOC-5310(28)
L1424008-08F	Plastic 250ml unpreserved	I	N/A	4.4	Y	Absent	ALK-T-2320(14)
L1424008-08G	Plastic 250ml NaOH preserved	I	>12	4.4	Y	Absent	HOLD-WETCHEM(0)
L1424008-08H	Plastic 250ml HNO3 preserved	I	<2	4.4	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-08I	Plastic 500ml unpreserved	I	7	4.4	Y	Absent	BOD-5210(2)
L1424008-08J	Plastic 500ml H2SO4 preserved	I	<2	4.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-08K	Amber 250ml unpreserved	I	7	4.4	Y	Absent	SALINITY(28)
L1424008-08L	Amber 500ml H2SO4 preserved	I	<2	4.4	Y	Absent	TPHENOL-420(28)
L1424008-08M	Plastic 1000ml unpreserved	I	7	4.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-09A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-09B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-09C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-09D	Vial H2SO4 preserved	I	N/A	4.4	Y	Absent	TOC-5310(28)
L1424008-09E	Vial H2SO4 preserved	I	N/A	4.4	Y	Absent	TOC-5310(28)
L1424008-09F	Plastic 250ml unpreserved	I	N/A	4.4	Y	Absent	ALK-T-2320(14)
L1424008-09G	Plastic 250ml NaOH preserved	I	>12	4.4	Y	Absent	HOLD-WETCHEM(0)
L1424008-09H	Plastic 250ml HNO3 preserved	I	<2	4.4	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-09I	Plastic 500ml unpreserved	I	7	4.4	Y	Absent	BOD-5210(2)
L1424008-09J	Plastic 500ml H2SO4 preserved	I	<2	4.4	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-09K	Amber 250ml unpreserved	I	7	4.4	Y	Absent	SALINITY(28)
L1424008-09L	Amber 500ml H2SO4 preserved	I	<2	4.4	Y	Absent	TPHENOL-420(28)
L1424008-09M	Plastic 1000ml unpreserved	I	7	4.4	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-10A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-10B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-10C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-10D	Vial H2SO4 preserved	B	N/A	5.5	Y	Absent	TOC-5310(28)
L1424008-10E	Vial H2SO4 preserved	B	N/A	5.5	Y	Absent	TOC-5310(28)
L1424008-10F	Plastic 250ml unpreserved	B	N/A	5.5	Y	Absent	ALK-T-2320(14)
L1424008-10G	Plastic 250ml NaOH preserved	B	>12	5.5	Y	Absent	HOLD-WETCHEM(0)
L1424008-10H	Plastic 250ml HNO3 preserved	B	<2	5.5	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-10I	Plastic 500ml unpreserved	B	7	5.5	Y	Absent	BOD-5210(2)
L1424008-10J	Plastic 500ml H2SO4 preserved	B	<2	5.5	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-10K	Amber 250ml unpreserved	B	7	5.5	Y	Absent	SALINITY(28)
L1424008-10L	Amber 500ml H2SO4 preserved	B	<2	5.5	Y	Absent	TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-10M	Plastic 1000ml unpreserved	B	7	5.5	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-11A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11A1	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11A2	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11B1	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11B2	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11C1	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11C2	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-11D	Vial H2SO4 preserved	G	N/A	5.0	Y	Absent	TOC-5310(28)
L1424008-11D1	Vial H2SO4 preserved	G	N/A	5.0	Y	Absent	TOC-5310(28)
L1424008-11D2	Vial H2SO4 preserved	G	N/A	5.0	Y	Absent	TOC-5310(28)
L1424008-11E	Vial H2SO4 preserved	G	N/A	5.0	Y	Absent	TOC-5310(28)
L1424008-11E1	Vial H2SO4 preserved	G	N/A	5.0	Y	Absent	TOC-5310(28)
L1424008-11E2	Vial H2SO4 preserved	G	N/A	5.0	Y	Absent	TOC-5310(28)
L1424008-11F	Plastic 250ml unpreserved	G	N/A	5.0	Y	Absent	ALK-T-2320(14)
L1424008-11F1	Plastic 250ml unpreserved	G	N/A	5.0	Y	Absent	ALK-T-2320(14)
L1424008-11F2	Plastic 250ml unpreserved	G	N/A	5.0	Y	Absent	ALK-T-2320(14)
L1424008-11G	Plastic 250ml NaOH preserved	G	>12	5.0	Y	Absent	HOLD-WETCHEM(0)
L1424008-11G1	Plastic 250ml NaOH preserved	G	>12	5.0	Y	Absent	HOLD-WETCHEM(0)
L1424008-11G2	Plastic 250ml NaOH preserved	G	>12	5.0	Y	Absent	HOLD-WETCHEM(0)
L1424008-11H	Plastic 250ml HNO3 preserved	G	<2	5.0	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-11H1	Plastic 250ml HNO3 preserved	G	<2	5.0	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-11H2	Plastic 250ml HNO3 preserved	G	<2	5.0	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-11I	Plastic 500ml unpreserved	G	7	5.0	Y	Absent	BOD-5210(2)
L1424008-11I1	Plastic 500ml unpreserved	G	7	5.0	Y	Absent	BOD-5210(2)
L1424008-11I2	Plastic 500ml unpreserved	G	7	5.0	Y	Absent	BOD-5210(2)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-11J	Plastic 500ml H2SO4 preserved	G	<2	5.0	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-11J1	Plastic 250ml H2SO4 preserved	G	<2	5.0	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-11J2	Plastic 250ml H2SO4 preserved	G	<2	5.0	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-11K	Amber 250ml unpreserved	G	7	5.0	Y	Absent	SALINITY(28)
L1424008-11K1	Amber 250ml unpreserved	G	7	5.0	Y	Absent	SALINITY(28)
L1424008-11K2	Amber 250ml unpreserved	G	7	5.0	Y	Absent	SALINITY(28)
L1424008-11L	Amber 500ml H2SO4 preserved	G	<2	5.0	Y	Absent	TPHENOL-420(28)
L1424008-11L1	Amber 500ml H2SO4 preserved	G	<2	5.0	Y	Absent	TPHENOL-420(28)
L1424008-11L2	Amber 500ml H2SO4 preserved	G	<2	5.0	Y	Absent	TPHENOL-420(28)
L1424008-11M	Plastic 1000ml unpreserved	G	7	5.0	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-11M1	Plastic 1000ml unpreserved	G	7	5.0	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-11M2	Plastic 1000ml unpreserved	G	7	5.0	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-12A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-12B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-12C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-12D	Vial H2SO4 preserved	H	N/A	4.3	Y	Absent	TOC-5310(28)
L1424008-12E	Vial H2SO4 preserved	H	N/A	4.3	Y	Absent	TOC-5310(28)
L1424008-12F	Plastic 250ml unpreserved	H	N/A	4.3	Y	Absent	ALK-T-2320(14)
L1424008-12G	Plastic 250ml NaOH preserved	H	>12	4.3	Y	Absent	HOLD-WETCHEM(0)
L1424008-12H	Plastic 250ml HNO3 preserved	H	<2	4.3	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-12I	Plastic 500ml unpreserved	H	7	4.3	Y	Absent	BOD-5210(2)
L1424008-12J	Plastic 500ml H2SO4 preserved	H	<2	4.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-12K	Amber 250ml unpreserved	H	7	4.3	Y	Absent	SALINITY(28)
L1424008-12L	Amber 500ml H2SO4 preserved	H	<2	4.3	Y	Absent	TPHENOL-420(28)
L1424008-12M	Plastic 1000ml unpreserved	H	7	4.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-13A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-13B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-13C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-13D	Vial H2SO4 preserved	H	N/A	4.3	Y	Absent	TOC-5310(28)
L1424008-13E	Vial H2SO4 preserved	H	N/A	4.3	Y	Absent	TOC-5310(28)
L1424008-13F	Plastic 250ml unpreserved	H	N/A	4.3	Y	Absent	ALK-T-2320(14)
L1424008-13G	Plastic 250ml NaOH preserved	H	>12	4.3	Y	Absent	HOLD-WETCHEM(0)
L1424008-13H	Plastic 250ml HNO3 preserved	H	<2	4.3	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-13I	Plastic 500ml unpreserved	H	7	4.3	Y	Absent	BOD-5210(2)
L1424008-13J	Plastic 500ml H2SO4 preserved	H	<2	4.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-13K	Amber 250ml unpreserved	H	7	4.3	Y	Absent	SALINITY(28)
L1424008-13L	Amber 500ml H2SO4 preserved	H	<2	4.3	Y	Absent	TPHENOL-420(28)
L1424008-13M	Plastic 1000ml unpreserved	H	7	4.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-14A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-14B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-14C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-14D	Vial H2SO4 preserved	H	N/A	4.3	Y	Absent	TOC-5310(28)
L1424008-14E	Vial H2SO4 preserved	H	N/A	4.3	Y	Absent	TOC-5310(28)
L1424008-14F	Plastic 250ml unpreserved	H	N/A	4.3	Y	Absent	ALK-T-2320(14)
L1424008-14G	Plastic 250ml NaOH preserved	H	>12	4.3	Y	Absent	HOLD-WETCHEM(0)
L1424008-14H	Plastic 250ml HNO3 preserved	H	<2	4.3	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-14I	Plastic 500ml unpreserved	H	7	4.3	Y	Absent	BOD-5210(2)
L1424008-14J	Plastic 500ml H2SO4 preserved	H	<2	4.3	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-14K	Amber 250ml unpreserved	H	7	4.3	Y	Absent	SALINITY(28)
L1424008-14L	Amber 500ml H2SO4 preserved	H	<2	4.3	Y	Absent	TPHENOL-420(28)
L1424008-14M	Plastic 1000ml unpreserved	H	7	4.3	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-15A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-15B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-15C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-15D	Vial H2SO4 preserved	E	N/A	4.1	Y	Absent	TOC-5310(28)
L1424008-15E	Vial H2SO4 preserved	E	N/A	4.1	Y	Absent	TOC-5310(28)
L1424008-15F	Plastic 250ml unpreserved	E	N/A	4.1	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-15G	Plastic 250ml NaOH preserved	E	>12	4.1	Y	Absent	HOLD-WETCHEM(0)
L1424008-15H	Plastic 250ml HNO3 preserved	E	<2	4.1	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-15I	Plastic 500ml unpreserved	E	7	4.1	Y	Absent	BOD-5210(2)
L1424008-15J	Plastic 500ml H2SO4 preserved	E	<2	4.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-15K	Amber 250ml unpreserved	E	7	4.1	Y	Absent	SALINITY(28)
L1424008-15L	Amber 500ml H2SO4 preserved	E	<2	4.1	Y	Absent	TPHENOL-420(28)
L1424008-15M	Plastic 1000ml unpreserved	E	7	4.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-16A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-16B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-16C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-16D	Vial H2SO4 preserved	E	N/A	4.1	Y	Absent	TOC-5310(28)
L1424008-16E	Vial H2SO4 preserved	E	N/A	4.1	Y	Absent	TOC-5310(28)
L1424008-16F	Plastic 250ml unpreserved	E	N/A	4.1	Y	Absent	ALK-T-2320(14)
L1424008-16G	Plastic 250ml NaOH preserved	E	>12	4.1	Y	Absent	HOLD-WETCHEM(0)
L1424008-16H	Plastic 250ml HNO3 preserved	E	<2	4.1	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-16I	Plastic 500ml unpreserved	E	7	4.1	Y	Absent	BOD-5210(2)
L1424008-16J	Plastic 500ml H2SO4 preserved	E	<2	4.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-16K	Amber 250ml unpreserved	E	7	4.1	Y	Absent	SALINITY(28)
L1424008-16L	Amber 500ml H2SO4 preserved	E	<2	4.1	Y	Absent	TPHENOL-420(28)
L1424008-16M	Plastic 1000ml unpreserved	E	7	4.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-17A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-17B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-17C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-17D	Vial H2SO4 preserved	E	N/A	4.1	Y	Absent	TOC-5310(28)
L1424008-17E	Vial H2SO4 preserved	E	N/A	4.1	Y	Absent	TOC-5310(28)
L1424008-17F	Plastic 250ml unpreserved	E	N/A	4.1	Y	Absent	ALK-T-2320(14)
L1424008-17G	Plastic 250ml NaOH preserved	E	>12	4.1	Y	Absent	HOLD-WETCHEM(0)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-17H	Plastic 250ml HNO3 preserved	E	<2	4.1	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-17I	Plastic 500ml unpreserved	E	7	4.1	Y	Absent	BOD-5210(2)
L1424008-17J	Plastic 500ml H2SO4 preserved	E	<2	4.1	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-17K	Amber 250ml unpreserved	E	7	4.1	Y	Absent	SALINITY(28)
L1424008-17L	Amber 500ml H2SO4 preserved	E	<2	4.1	Y	Absent	TPHENOL-420(28)
L1424008-17M	Plastic 1000ml unpreserved	E	7	4.1	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-18A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-18B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-18C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-18D	Vial H2SO4 preserved	F	N/A	4.7	Y	Absent	TOC-5310(28)
L1424008-18E	Vial H2SO4 preserved	F	N/A	4.7	Y	Absent	TOC-5310(28)
L1424008-18F	Plastic 250ml unpreserved	F	N/A	4.7	Y	Absent	ALK-T-2320(14)
L1424008-18G	Plastic 250ml NaOH preserved	F	>12	4.7	Y	Absent	HOLD-WETCHEM(0)
L1424008-18H	Plastic 250ml HNO3 preserved	F	<2	4.7	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-18I	Plastic 500ml unpreserved	F	7	4.7	Y	Absent	BOD-5210(2)
L1424008-18J	Plastic 500ml H2SO4 preserved	F	<2	4.7	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-18K	Amber 250ml unpreserved	F	7	4.7	Y	Absent	SALINITY(28)
L1424008-18L	Amber 500ml H2SO4 preserved	F	<2	4.7	Y	Absent	TPHENOL-420(28)
L1424008-18M	Plastic 1000ml unpreserved	F	7	4.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-19A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-19B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-19C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-19D	Vial H2SO4 preserved	F	N/A	4.7	Y	Absent	TOC-5310(28)
L1424008-19E	Vial H2SO4 preserved	F	N/A	4.7	Y	Absent	TOC-5310(28)
L1424008-19F	Plastic 250ml unpreserved	F	N/A	4.7	Y	Absent	ALK-T-2320(14)
L1424008-19G	Plastic 250ml NaOH preserved	F	>12	4.7	Y	Absent	HOLD-WETCHEM(0)
L1424008-19H	Plastic 250ml HNO3 preserved	F	<2	4.7	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1424008
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1424008-19I	Plastic 500ml unpreserved	F	7	4.7	Y	Absent	BOD-5210(2)
L1424008-19J	Plastic 500ml H2SO4 preserved	F	<2	4.7	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-19K	Amber 250ml unpreserved	F	7	4.7	Y	Absent	SALINITY(28)
L1424008-19L	Amber 500ml H2SO4 preserved	F	<2	4.7	Y	Absent	TPHENOL-420(28)
L1424008-19M	Plastic 1000ml unpreserved	F	7	4.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-20A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-20B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-20C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-20D	Vial H2SO4 preserved	F	N/A	4.7	Y	Absent	TOC-5310(28)
L1424008-20E	Vial H2SO4 preserved	F	N/A	4.7	Y	Absent	TOC-5310(28)
L1424008-20F	Plastic 250ml unpreserved	F	N/A	4.7	Y	Absent	ALK-T-2320(14)
L1424008-20G	Plastic 250ml NaOH preserved	F	>12	4.7	Y	Absent	HOLD-WETCHEM(0)
L1424008-20H	Plastic 250ml HNO3 preserved	F	<2	4.7	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1424008-20I	Plastic 500ml unpreserved	F	7	4.7	Y	Absent	BOD-5210(2)
L1424008-20J	Plastic 500ml H2SO4 preserved	F	<2	4.7	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1424008-20K	Amber 250ml unpreserved	F	7	4.7	Y	Absent	SALINITY(28)
L1424008-20L	Amber 500ml H2SO4 preserved	F	<2	4.7	Y	Absent	TPHENOL-420(28)
L1424008-20M	Plastic 1000ml unpreserved	F	7	4.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1424008-21A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-22A	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-22B	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)
L1424008-22C	Vial HCl preserved	A	N/A	3.1	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1424008
Project Number:	08.8696	**Report Date:**	10/17/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT-BRINE PONDS **Lab Number:** L1424008
Project Number: 08.8696 **Report Date:** 10/17/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab: ~~10/9~~ RS 10/10/14

ALPHA Job #: L1424008

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: s.bieber@ctmale.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt Brine Ponds
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10/17/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING
Filtration ____
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Rcra Metals	VOCs	Salinity	Sample Specific Comments	Total # Bottles
2400801	MW-32	10/9/14	0900	W	SB	✓	✓	✓	DO MS/MSD	39
02	MW-33	↓	1005	W	SB	✓	✓	✓		13
03	MW-24		1040 ~~1020~~ SB	W	SB	✓	✓	✓		13
04	MW-46		1120	W	SB	✓	✓	✓		13
05	MW-42		1150	W	SB	✓	✓	✓		13
06	MW-25		1300	W	SB	✓	✓	✓		13
07	MW-47		1335	W	SB	✓	✓	✓		13
08	MW-41		1400	W	SB	✓	✓	✓		13
09	MW-31		1440	W	SB	✓	✓	✓		13
10	MW-30	↓	1515	W	SB	✓	✓	✓		13

Container Type	O	V	A
Preservative	O	B	A

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/9/14 1650	R. French AAL	10/09 1650
R. French	10/09 2305	[signature]	10/9/14 2305
[signature]	10/10/14 0140	[signature]	10/10/14 0140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE_____ OF_____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/10/14

ALPHA Job #: L1424008

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: S.bieber@ctmale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt - Bruce Ponds
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/17/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Routine Parameters			VOC	Salinity							Sample Specific Comments	TOTAL # BOTTLES
24008.11	MW-26	10/9/14	0840	GW	JD	X			X	X							MS/MSD	39
.12	MW-57		0920		JD	X			X	X								13
.13	MW-34		1010		JD	X			X	X								13
.14	MW-52		1040		JD	X			X	X								13
.15	EB WEST		1130		JD	X			X	X								13
.16	MW-35A		1215		JD	X			X	X								13
.17	MW-53		1245		JD	X			X	X								13
.18	MW-39		1330		JD	X			X	X								13
.19	MW-54A		1415		JD	X			X	X								13
.20	MW-29	10/9/14	1445	GW	JD	X			X	X								13
					Container Type	O			V	A								
					Preservative	O			B	A								

SAMPLE HANDLING
*Filtration*_____
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/9/14 1650	R. Fraser via HAL	10/09 1650
R. Fraser	10/09 2305	[illegible]	10-9-14 2305
[illegible]	10-10-14 01:40	[illegible]	10/10/14 01:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE_____ OF _____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/10/14

ALPHA Job #: L1424008

Client Information

Client: C.T. Male Associates
Address: 50 Century Hill Dr Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: s.bieber@ctmale.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt Brine Ponds
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Molino
ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10/17/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOCs	Sample Specific Comments	Total # Bottles
24008-21	Trip Blank			W		✓		1
-22	WL-West	10/9/14	1615	W	JD	✓		3

SAMPLE HANDLING
Filtration_____
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Container Type	V													
Preservative	B													

Relinquished By:	Date/Time	Received By:	Date/Time
Steve Bieber	10/9/14 1650	R. French AAL	10/09/1650
R. French	10/09 2305	[illegible]	10-9-14 2305
[illegible]	10-10-14 01:40	[illegible]	10/10/14 01:40

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

ANALYTICAL REPORT

Lab Number:	L1423827
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Kirk Moline
Phone:	(518) 786-7400
Project Name:	US SALT-BRINE PONDS
Project Number:	08.8696
Report Date:	10/17/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1423827-01	MW-50	WATER	READING, NY	10/08/14 09:30	10/08/14
L1423827-02	MW-49	WATER	READING, NY	10/08/14 10:10	10/08/14
L1423827-03	MW-22	WATER	READING, NY	10/08/14 10:50	10/08/14
L1423827-04	MW-23	WATER	READING, NY	10/08/14 11:40	10/08/14
L1423827-05	MW-44	WATER	READING, NY	10/08/14 12:10	10/08/14
L1423827-06	MW-45	WATER	READING, NY	10/08/14 13:10	10/08/14
L1423827-07	DUP EAST	WATER	READING, NY	10/08/14 13:10	10/08/14
L1423827-08	MW-43	WATER	READING, NY	10/08/14 14:05	10/08/14
L1423827-09	EQ. BLANK EAST	WATER	READING, NY	10/08/14 14:45	10/08/14
L1423827-10	WL-EAST	WATER	READING, NY	10/08/14 16:20	10/08/14
L1423827-11	MW-58	WATER	READING, NY	10/08/14 09:30	10/08/14
L1423827-12	MW-27	WATER	READING, NY	10/08/14 10:00	10/08/14
L1423827-13	MW-36	WATER	READING, NY	10/08/14 10:45	10/08/14
L1423827-14	MW-57	WATER	READING, NY	10/08/14 11:05	10/08/14
L1423827-15	MW-55	WATER	READING, NY	10/08/14 12:00	10/08/14
L1423827-16	MW-37	WATER	READING, NY	10/08/14 12:30	10/08/14
L1423827-17	MW-56A	WATER	READING, NY	10/08/14 14:40	10/08/14
L1423827-18	FDWEST	WATER	READING, NY	10/08/14 14:00	10/08/14
L1423827-19	MW-28	WATER	READING, NY	10/08/14 15:15	10/08/14

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827
Project Number: 08.8696 **Report Date:** 10/17/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

The WG730249-1/-2 LCS/LCSD recoveries, associated with L1423827-01 through -04, are outside the acceptance criteria for individual target compounds, but within the overall method allowances. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for chloroethane (143%) and a potentially low bias for chloromethane (52%/51%).

The WG730249-2 LCS/LCSD RPD(s), associated with L1423827-01 through -04, are above the acceptance criteria for ethyl ether (22%).

Metals

The WG731304-4 MS recoveries, performed on L1423827-01, are outside the acceptance criteria for iron (134%) and potassium (145%). A post digestion spike was performed and was within acceptance criteria.

The WG731304-4 MS recovery for sodium (220%), performed on L1423827-01, does not apply because the sample concentration is greater than four times the spike amount added.

The WG731307-4 MS recoveries for magnesium (0%) and hardness (151%), performed on L1423827-01, do not apply because the sample concentration is greater than four times the spike amount added.

The WG731665-4 MS recovery for calcium (160%) , performed on L1423827-14, does not apply because the sample concentration is greater than four times the spike amount added.

The WG731665-4 MS recovery, performed on L1423827-14, is outside the acceptance criteria for hardness (136%). A post digestion spike was performed and was within acceptance criteria.

The WG731666-4 MS recoveries, performed on L1423827-14, are outside the acceptance criteria for potassium (127%) and sodium (142%). A post digestion spike was performed and was within acceptance criteria.

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827
Project Number: 08.8696 **Report Date:** 10/17/14

Case Narrative (continued)

Nitrogen, Nitrate

L1423827-01 through -09 and -11 through -19 were analyzed for Nitrite within the method required holding time. An aliquot of each sample was then preserved and analyzed for Nitrate.

The WG729701-4 MS recovery, performed on L1423827-01, is outside the acceptance criteria (75%); however, the associated LCS recovery was within criteria. No further action was taken.

BOD, 5 day

L1423827-08 has an elevated detection limit due to the dilution performed as indicated by the COD prescreening.

The WG729685-2 LCS recovery (118%), associated with L1423827-01 through -09 and -11 through -19, is outside the acceptance criteria. Due to the expiration of the method required holding time, no further action was taken.

Bromide

L1423827-01 through -08 and -11 through -15 have elevated detection limits due to the dilutions required by the sample matrix.

Chloride

L1423827-15 has an elevated detection limit due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative Date: 10/17/14

ORGANICS

VOLATILES

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-01	Date Collected:	10/08/14 09:30
Client ID:	MW-50	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 22:32		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-01 Date Collected: 10/08/14 09:30

Client ID: MW-50 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-02	Date Collected:	10/08/14 10:10
Client ID:	MW-49	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 23:03		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-02 Date Collected: 10/08/14 10:10

Client ID: MW-49 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	108		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-03	Date Collected:	10/08/14 10:50
Client ID:	MW-22	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 23:34		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-03 Date Collected: 10/08/14 10:50

Client ID: MW-22 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-04	Date Collected:	10/08/14 11:40
Client ID:	MW-23	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/12/14 00:05		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-04 Date Collected: 10/08/14 11:40

Client ID: MW-23 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	113		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-05	Date Collected:	10/08/14 12:10
Client ID:	MW-44	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 19:00		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-05 Date Collected: 10/08/14 12:10

Client ID: MW-44 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	121		70-130
Dibromofluoromethane	98		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-06	Date Collected:	10/08/14 13:10
Client ID:	MW-45	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 19:33		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-06 Date Collected: 10/08/14 13:10

Client ID: MW-45 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-07
Client ID: DUP EAST
Sample Location: READING, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/11/14 20:05
Analyst: PD

Date Collected: 10/08/14 13:10
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-07 Date Collected: 10/08/14 13:10

Client ID: DUP EAST Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-08	Date Collected:	10/08/14 14:05
Client ID:	MW-43	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 20:37		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-08 Date Collected: 10/08/14 14:05

Client ID: MW-43 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-09	Date Collected:	10/08/14 14:45
Client ID:	EQ. BLANK EAST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 19:16		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	3.6		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-09 Date Collected: 10/08/14 14:45

Client ID: EQ. BLANK EAST Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	13		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-10	Date Collected:	10/08/14 16:20
Client ID:	WL-EAST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 21:09		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	3.1		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	0.54		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-10 Date Collected: 10/08/14 16:20

Client ID: WL-EAST Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	17		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-11	Date Collected:	10/08/14 09:30
Client ID:	MW-58	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 21:42		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	10		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-11 Date Collected: 10/08/14 09:30

Client ID: MW-58 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-12	Date Collected:	10/08/14 10:00
Client ID:	MW-27	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 22:14		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	2.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-12 Date Collected: 10/08/14 10:00

Client ID: MW-27 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-13	Date Collected:	10/08/14 10:45
Client ID:	MW-36	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 22:47		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.3		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-13 Date Collected: 10/08/14 10:45

Client ID: MW-36 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.7	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-14	Date Collected:	10/08/14 11:05
Client ID:	MW-57	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 23:19		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.9		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-14 Date Collected: 10/08/14 11:05

Client ID: MW-57 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	1.8	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-15	Date Collected:	10/08/14 12:00
Client ID:	MW-55	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/11/14 23:52		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-15 Date Collected: 10/08/14 12:00

Client ID: MW-55 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-16	Date Collected:	10/08/14 12:30
Client ID:	MW-37	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/12/14 00:25		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-16 Date Collected: 10/08/14 12:30

Client ID: MW-37 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-17	Date Collected:	10/08/14 14:40
Client ID:	MW-56A	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/12/14 00:57		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.0		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-17 Date Collected: 10/08/14 14:40

Client ID: MW-56A Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.6	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-18	Date Collected:	10/08/14 14:00
Client ID:	FDWEST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/12/14 01:30		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.2		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-18 Date Collected: 10/08/14 14:00

Client ID: FDWEST Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	2.2	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	102		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-19	Date Collected:	10/08/14 15:15
Client ID:	MW-28	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		
Analytical Method:	1,8260C		
Analytical Date:	10/12/14 02:03		
Analyst:	PD		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.33	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	1.4		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-19 Date Collected: 10/08/14 15:15

Client ID: MW-28 Date Received: 10/08/14

Sample Location: READING, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	101		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/14 14:52
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG730249-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/14 14:52
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG730249-3					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	107		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/14 18:44
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG730322-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/14 18:44
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09 Batch: WG730322-3					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/14 18:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-08,10-19 Batch: WG730323-3					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.13
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.33
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.14
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 10/11/14 18:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 05-08,10-19 Batch: WG730323-3					
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG730249-1 WG730249-2								
Methylene chloride	94		94		70-130	0		20
1,1-Dichloroethane	90		88		70-130	2		20
Chloroform	102		100		70-130	2		20
2-Chloroethylvinyl ether	80		82		70-130	2		20
Carbon tetrachloride	110		106		63-132	4		20
1,2-Dichloropropane	81		84		70-130	4		20
Dibromochloromethane	98		96		63-130	2		20
1,1,2-Trichloroethane	88		88		70-130	0		20
Tetrachloroethene	104		101		70-130	3		20
Chlorobenzene	96		96		75-130	0		20
Trichlorofluoromethane	102		108		62-150	6		20
1,2-Dichloroethane	106		106		70-130	0		20
1,1,1-Trichloroethane	108		106		67-130	2		20
Bromodichloromethane	99		99		67-130	0		20
trans-1,3-Dichloropropene	93		92		70-130	1		20
cis-1,3-Dichloropropene	94		93		70-130	1		20
1,1-Dichloropropene	94		90		70-130	4		20
Bromoform	99		98		54-136	1		20
1,1,2,2-Tetrachloroethane	82		84		67-130	2		20
Benzene	89		89		70-130	0		20
Toluene	90		89		70-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG730249-1 WG730249-2								
Ethylbenzene	96		95		70-130	1		20
Chloromethane	**52**	Q	**51**	Q	64-130	2		20
Bromomethane	66		60		39-139	10		20
Vinyl chloride	88		88		55-140	0		20
Chloroethane	125		**143**	Q	55-138	13		20
1,1-Dichloroethene	94		91		61-145	3		20
trans-1,2-Dichloroethene	95		92		70-130	3		20
Trichloroethene	102		101		70-130	1		20
1,2-Dichlorobenzene	94		93		70-130	1		20
1,3-Dichlorobenzene	96		96		70-130	0		20
1,4-Dichlorobenzene	96		96		70-130	0		20
Methyl tert butyl ether	94		95		63-130	1		20
p/m-Xylene	100		99		70-130	1		20
o-Xylene	102		101		70-130	1		20
cis-1,2-Dichloroethene	96		95		70-130	1		20
Dibromomethane	92		94		70-130	2		20
1,2,3-Trichloropropane	90		94		64-130	4		20
Acrylonitrile	74		77		70-130	4		20
Isopropyl Ether	77		76		70-130	1		20
tert-Butyl Alcohol	85		82		70-130	4		20
Styrene	104		104		70-130	0		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG730249-1 WG730249-2								
Dichlorodifluoromethane	57		54		36-147	5		20
Acetone	100		92		58-148	8		20
Carbon disulfide	90		85		51-130	6		20
2-Butanone	81		79		63-138	3		20
Vinyl acetate	84		82		70-130	2		20
4-Methyl-2-pentanone	81		82		59-130	1		20
2-Hexanone	73		74		57-130	1		20
Acrolein	71		67		40-160	6		20
Bromochloromethane	110		109		70-130	1		20
2,2-Dichloropropane	112		112		63-133	0		20
1,2-Dibromoethane	91		91		70-130	0		20
1,3-Dichloropropane	87		86		70-130	1		20
1,1,1,2-Tetrachloroethane	102		102		64-130	0		20
Bromobenzene	96		96		70-130	0		20
n-Butylbenzene	89		87		53-136	2		20
sec-Butylbenzene	92		91		70-130	1		20
tert-Butylbenzene	96		95		70-130	1		20
o-Chlorotoluene	95		94		70-130	1		20
p-Chlorotoluene	96		95		70-130	1		20
1,2-Dibromo-3-chloropropane	86		86		41-144	0		20
Hexachlorobutadiene	91		90		63-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG730249-1 WG730249-2								
Isopropylbenzene	95		94		70-130	1		20
p-Isopropyltoluene	94		93		70-130	1		20
Naphthalene	78		78		70-130	0		20
n-Propylbenzene	93		92		69-130	1		20
1,2,3-Trichlorobenzene	81		79		70-130	3		20
1,2,4-Trichlorobenzene	86		84		70-130	2		20
1,3,5-Trimethylbenzene	99		98		64-130	1		20
1,2,4-Trimethylbenzene	97		95		70-130	2		20
Methyl Acetate	74		74		70-130	0		20
Ethyl Acetate	71		72		70-130	1		20
Cyclohexane	77		75		70-130	3		20
Ethyl-Tert-Butyl-Ether	90		90		70-130	0		20
Tertiary-Amyl Methyl Ether	91		91		66-130	0		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	89		87		70-130	2		20
1,4-Diethylbenzene	96		94		70-130	2		20
4-Ethyltoluene	98		97		70-130	1		20
1,2,4,5-Tetramethylbenzene	91		89		70-130	2		20
Ethyl ether	69		86		59-134	**22**	Q	20
trans-1,4-Dichloro-2-butene	78		78		70-130	0		20
Methyl cyclohexane	84		81		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG730249-1 WG730249-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		117		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	95		94		70-130
Dibromofluoromethane	113		111		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG730322-1 WG730322-2								
Methylene chloride	101		109		70-130	8		20
1,1-Dichloroethane	81		90		70-130	11		20
Chloroform	100		108		70-130	8		20
2-Chloroethylvinyl ether	82		92		70-130	11		20
Carbon tetrachloride	90		99		63-132	10		20
1,2-Dichloropropane	83		90		70-130	8		20
Dibromochloromethane	95		105		63-130	10		20
1,1,2-Trichloroethane	98		107		70-130	9		20
Tetrachloroethene	99		109		70-130	10		20
Chlorobenzene	103		112		75-130	8		20
Trichlorofluoromethane	94		102		62-150	8		20
1,2-Dichloroethane	89		98		70-130	10		20
1,1,1-Trichloroethane	94		102		67-130	8		20
Bromodichloromethane	101		115		67-130	13		20
trans-1,3-Dichloropropene	91		99		70-130	8		20
cis-1,3-Dichloropropene	95		103		70-130	8		20
1,1-Dichloropropene	90		100		70-130	11		20
Bromoform	89		101		54-136	13		20
1,1,2,2-Tetrachloroethane	103		116		67-130	12		20
Benzene	98		105		70-130	7		20
Toluene	99		106		70-130	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG730322-1 WG730322-2								
Ethylbenzene	99		107		70-130	8		20
Chloromethane	**59**	Q	65		64-130	10		20
Bromomethane	58		66		39-139	13		20
Vinyl chloride	72		77		55-140	7		20
Chloroethane	82		89		55-138	8		20
1,1-Dichloroethene	96		105		61-145	9		20
trans-1,2-Dichloroethene	97		104		70-130	7		20
Trichloroethene	107		112		70-130	5		20
1,2-Dichlorobenzene	104		115		70-130	10		20
1,3-Dichlorobenzene	106		116		70-130	9		20
1,4-Dichlorobenzene	105		116		70-130	10		20
Methyl tert butyl ether	100		109		63-130	9		20
p/m-Xylene	101		109		70-130	8		20
o-Xylene	99		108		70-130	9		20
cis-1,2-Dichloroethene	102		112		70-130	9		20
Dibromomethane	98		110		70-130	12		20
1,2,3-Trichloropropane	99		106		64-130	7		20
Acrylonitrile	83		95		70-130	13		20
Isopropyl Ether	74		82		70-130	10		20
tert-Butyl Alcohol	79		83		70-130	5		20
Styrene	102		113		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG730322-1 WG730322-2								
Dichlorodifluoromethane	47		52		36-147	10		20
Acetone	62		71		58-148	14		20
Carbon disulfide	84		90		51-130	7		20
2-Butanone	81		89		63-138	9		20
Vinyl acetate	85		93		70-130	9		20
4-Methyl-2-pentanone	82		95		59-130	15		20
2-Hexanone	79		90		57-130	13		20
Acrolein	81		86		40-160	6		20
Bromochloromethane	107		118		70-130	10		20
2,2-Dichloropropane	91		94		63-133	3		20
1,2-Dibromoethane	100		112		70-130	11		20
1,3-Dichloropropane	96		108		70-130	12		20
1,1,1,2-Tetrachloroethane	97		106		64-130	9		20
Bromobenzene	104		112		70-130	7		20
n-Butylbenzene	94		105		53-136	11		20
sec-Butylbenzene	98		108		70-130	10		20
tert-Butylbenzene	98		108		70-130	10		20
o-Chlorotoluene	103		113		70-130	9		20
p-Chlorotoluene	101		111		70-130	9		20
1,2-Dibromo-3-chloropropane	90		87		41-144	3		20
Hexachlorobutadiene	106		121		63-130	13		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG730322-1 WG730322-2								
Isopropylbenzene	109		119		70-130	9		20
p-Isopropyltoluene	97		108		70-130	11		20
Naphthalene	82		91		70-130	10		20
n-Propylbenzene	98		106		69-130	8		20
1,2,3-Trichlorobenzene	90		100		70-130	11		20
1,2,4-Trichlorobenzene	98		107		70-130	9		20
1,3,5-Trimethylbenzene	99		110		64-130	11		20
1,2,4-Trimethylbenzene	101		110		70-130	9		20
Methyl Acetate	85		94		70-130	10		20
Ethyl Acetate	80		86		70-130	7		20
Cyclohexane	**66**	Q	72		70-130	9		20
Ethyl-Tert-Butyl-Ether	76		82		70-130	8		20
Tertiary-Amyl Methyl Ether	94		101		66-130	7		20
1,4-Dioxane	110		114		56-162	4		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	87		97		70-130	11		20
1,4-Diethylbenzene	98		108		70-130	10		20
4-Ethyltoluene	102		111		70-130	8		20
1,2,4,5-Tetramethylbenzene	101		112		70-130	10		20
Ethyl ether	109		116		59-134	6		20
trans-1,4-Dichloro-2-butene	75		83		70-130	10		20
Methyl cyclohexane	85		94		70-130	10		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09 Batch: WG730322-1 WG730322-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	81		81		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	95		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS

Project Number: 08.8696

Lab Number: L1423827

Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08,10-19 Batch: WG730323-1 WG730323-2								
Methylene chloride	106		102		70-130	4		20
1,1-Dichloroethane	86		83		70-130	4		20
Chloroform	102		99		70-130	3		20
2-Chloroethylvinyl ether	75		76		70-130	1		20
Carbon tetrachloride	92		89		63-132	3		20
1,2-Dichloropropane	83		82		70-130	1		20
Dibromochloromethane	94		89		63-130	5		20
1,1,2-Trichloroethane	99		98		70-130	1		20
Tetrachloroethene	101		95		70-130	6		20
Chlorobenzene	106		100		75-130	6		20
Trichlorofluoromethane	96		93		62-150	3		20
1,2-Dichloroethane	91		88		70-130	3		20
1,1,1-Trichloroethane	98		95		67-130	3		20
Bromodichloromethane	93		90		67-130	3		20
trans-1,3-Dichloropropene	91		88		70-130	3		20
cis-1,3-Dichloropropene	93		93		70-130	0		20
1,1-Dichloropropene	95		90		70-130	5		20
Bromoform	89		91		54-136	2		20
1,1,2,2-Tetrachloroethane	103		105		67-130	2		20
Benzene	100		95		70-130	5		20
Toluene	100		94		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08,10-19 Batch: WG730323-1 WG730323-2								
Ethylbenzene	103		96		70-130	7		20
Chloromethane	**62**	Q	**59**	Q	64-130	5		20
Bromomethane	72		71		39-139	1		20
Vinyl chloride	77		72		55-140	7		20
Chloroethane	95		88		55-138	8		20
1,1-Dichloroethene	101		95		61-145	6		20
trans-1,2-Dichloroethene	104		101		70-130	3		20
Trichloroethene	105		101		70-130	4		20
1,2-Dichlorobenzene	106		104		70-130	2		20
1,3-Dichlorobenzene	107		103		70-130	4		20
1,4-Dichlorobenzene	103		102		70-130	1		20
Methyl tert butyl ether	97		96		63-130	1		20
p/m-Xylene	104		98		70-130	6		20
o-Xylene	105		99		70-130	6		20
cis-1,2-Dichloroethene	111		107		70-130	4		20
Dibromomethane	100		101		70-130	1		20
1,2,3-Trichloropropane	98		100		64-130	2		20
Acrylonitrile	80		79		70-130	1		20
Isopropyl Ether	74		75		70-130	1		20
tert-Butyl Alcohol	74		74		70-130	0		20
Styrene	106		102		70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08,10-19 Batch: WG730323-1 WG730323-2								
Dichlorodifluoromethane	50		48		36-147	4		20
Acetone	96		101		58-148	5		20
Carbon disulfide	91		88		51-130	3		20
2-Butanone	74		78		63-138	5		20
Vinyl acetate	81		81		70-130	0		20
4-Methyl-2-pentanone	72		77		59-130	7		20
2-Hexanone	68		70		57-130	3		20
Acrolein	77		76		40-160	1		20
Bromochloromethane	111		108		70-130	3		20
2,2-Dichloropropane	91		86		63-133	6		20
1,2-Dibromoethane	99		95		70-130	4		20
1,3-Dichloropropane	98		96		70-130	2		20
1,1,1,2-Tetrachloroethane	102		98		64-130	4		20
Bromobenzene	104		100		70-130	4		20
n-Butylbenzene	96		94		53-136	2		20
sec-Butylbenzene	100		96		70-130	4		20
tert-Butylbenzene	101		98		70-130	3		20
o-Chlorotoluene	106		103		70-130	3		20
p-Chlorotoluene	103		100		70-130	3		20
1,2-Dibromo-3-chloropropane	86		94		41-144	9		20
Hexachlorobutadiene	112		107		63-130	5		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08,10-19 Batch: WG730323-1 WG730323-2								
Isopropylbenzene	116		114		70-130	2		20
p-Isopropyltoluene	101		97		70-130	4		20
Naphthalene	71		70		70-130	1		20
n-Propylbenzene	102		98		69-130	4		20
1,2,3-Trichlorobenzene	85		83		70-130	2		20
1,2,4-Trichlorobenzene	87		84		70-130	4		20
1,3,5-Trimethylbenzene	103		100		64-130	3		20
1,2,4-Trimethylbenzene	104		101		70-130	3		20
Methyl Acetate	82		83		70-130	1		20
Ethyl Acetate	73		74		70-130	1		20
Cyclohexane	**69**	Q	**65**	Q	70-130	6		20
Ethyl-Tert-Butyl-Ether	74		73		70-130	1		20
Tertiary-Amyl Methyl Ether	88		88		66-130	0		20
1,4-Dioxane	103		113		56-162	9		20
1,1,2-Trichloro-1,2,2-Trifluoroethane	91		87		70-130	4		20
1,4-Diethylbenzene	101		97		70-130	4		20
4-Ethyltoluene	105		102		70-130	3		20
1,2,4,5-Tetramethylbenzene	100		96		70-130	4		20
Ethyl ether	105		104		59-134	1		20
trans-1,4-Dichloro-2-butene	**69**	Q	**69**	Q	70-130	0		20
Methyl cyclohexane	89		84		70-130	6		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-08,10-19 Batch: WG730323-1 WG730323-2								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	82		85		70-130
Toluene-d8	95		94		70-130
4-Bromofluorobenzene	93		95		70-130
Dibromofluoromethane	98		99		70-130

METALS

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-01	Date Collected:	10/08/14 09:30
Client ID:	MW-50	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 17:27	EPA 3005A	1,6020A	KL
Calcium, Total	340		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 18:27	EPA 3005A	1,6010C	JH
Iron, Total	3.28		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 17:27	EPA 3005A	1,6020A	KL
Lead, Total	0.00028	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 17:27	EPA 3005A	1,6020A	KL
Magnesium, Total	140		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 18:27	EPA 3005A	1,6010C	JH
Manganese, Total	0.5540		mg/l	0.01000	0.00604	20	10/15/14 13:13	10/16/14 17:24	EPA 3005A	1,6020A	KL
Potassium, Total	4.56		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 17:27	EPA 3005A	1,6020A	KL
Sodium, Total	388.		mg/l	2.00	0.322	20	10/15/14 13:13	10/16/14 17:24	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1400		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 18:27	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-02	Date Collected:	10/08/14 10:10
Client ID:	MW-49	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	0.00005	J	mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 18:11	EPA 3005A	1,6020A	KL
Calcium, Total	360		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 18:42	EPA 3005A	1,6010C	JH
Iron, Total	0.663		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 18:11	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 18:11	EPA 3005A	1,6020A	KL
Magnesium, Total	130		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 18:42	EPA 3005A	1,6010C	JH
Manganese, Total	0.9758		mg/l	0.01000	0.00604	20	10/15/14 13:13	10/16/14 18:07	EPA 3005A	1,6020A	KL
Potassium, Total	5.50		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 18:11	EPA 3005A	1,6020A	KL
Sodium, Total	288.		mg/l	2.00	0.322	20	10/15/14 13:13	10/16/14 18:07	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1400		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 18:42	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-03	Date Collected:	10/08/14 10:50
Client ID:	MW-22	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 18:18	EPA 3005A	1,6020A	KL
Calcium, Total	140		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 18:47	EPA 3005A	1,6010C	JH
Iron, Total	2.44		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 18:18	EPA 3005A	1,6020A	KL
Lead, Total	0.00097	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 18:18	EPA 3005A	1,6020A	KL
Magnesium, Total	59.		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 18:47	EPA 3005A	1,6010C	JH
Manganese, Total	0.3516		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 18:18	EPA 3005A	1,6020A	KL
Potassium, Total	5.10		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 18:18	EPA 3005A	1,6020A	KL
Sodium, Total	131.		mg/l	2.00	0.322	20	10/15/14 13:13	10/16/14 18:14	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	590		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 18:47	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-04	Date Collected:	10/08/14 11:40
Client ID:	MW-23	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 18:25	EPA 3005A	1,6020A	KL
Calcium, Total	430		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 18:51	EPA 3005A	1,6010C	JH
Iron, Total	1.99		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 18:25	EPA 3005A	1,6020A	KL
Lead, Total	0.00069	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 18:25	EPA 3005A	1,6020A	KL
Magnesium, Total	130		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 18:51	EPA 3005A	1,6010C	JH
Manganese, Total	0.7546		mg/l	0.01000	0.00604	20	10/15/14 13:13	10/16/14 18:21	EPA 3005A	1,6020A	KL
Potassium, Total	4.68		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 18:25	EPA 3005A	1,6020A	KL
Sodium, Total	340.		mg/l	2.00	0.322	20	10/15/14 13:13	10/16/14 18:21	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1600		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 18:51	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-05	Date Collected:	10/08/14 12:10
Client ID:	MW-44	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 18:32	EPA 3005A	1,6020A	KL
Calcium, Total	430		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:13	EPA 3005A	1,6010C	JH
Iron, Total	1.58		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 18:32	EPA 3005A	1,6020A	KL
Lead, Total	0.00041	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 18:32	EPA 3005A	1,6020A	KL
Magnesium, Total	140		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:13	EPA 3005A	1,6010C	JH
Manganese, Total	0.4374		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 18:32	EPA 3005A	1,6020A	KL
Potassium, Total	4.58		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 18:32	EPA 3005A	1,6020A	KL
Sodium, Total	479.		mg/l	2.00	0.322	20	10/15/14 13:13	10/16/14 18:29	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	1600		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:13	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-06	Date Collected:	10/08/14 13:10
Client ID:	MW-45	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 18:39	EPA 3005A	1,6020A	KL
Calcium, Total	130		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:17	EPA 3005A	1,6010C	JH
Iron, Total	1.71		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 18:39	EPA 3005A	1,6020A	KL
Lead, Total	0.00024	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 18:39	EPA 3005A	1,6020A	KL
Magnesium, Total	58.		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:17	EPA 3005A	1,6010C	JH
Manganese, Total	0.4189		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 18:39	EPA 3005A	1,6020A	KL
Potassium, Total	1.50		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 18:39	EPA 3005A	1,6020A	KL
Sodium, Total	32.3		mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 18:39	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	580		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:17	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-07	Date Collected:	10/08/14 13:10
Client ID:	DUP EAST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 18:58	EPA 3005A	1,6020A	KL
Calcium, Total	140		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:21	EPA 3005A	1,6010C	JH
Iron, Total	1.56		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 18:58	EPA 3005A	1,6020A	KL
Lead, Total	0.00020	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 18:58	EPA 3005A	1,6020A	KL
Magnesium, Total	59.		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:21	EPA 3005A	1,6010C	JH
Manganese, Total	0.4005		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 18:58	EPA 3005A	1,6020A	KL
Potassium, Total	1.12		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 18:58	EPA 3005A	1,6020A	KL
Sodium, Total	32.6		mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 18:58	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	580		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:21	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-08	Date Collected:	10/08/14 14:05
Client ID:	MW-43	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 19:05	EPA 3005A	1,6020A	KL
Calcium, Total	66		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:24	EPA 3005A	1,6010C	JH
Iron, Total	0.674		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 19:05	EPA 3005A	1,6020A	KL
Lead, Total	0.00013	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 19:05	EPA 3005A	1,6020A	KL
Magnesium, Total	46.		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:24	EPA 3005A	1,6010C	JH
Manganese, Total	0.7350		mg/l	0.01000	0.00604	20	10/15/14 13:13	10/16/14 19:01	EPA 3005A	1,6020A	KL
Potassium, Total	8.89		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 19:05	EPA 3005A	1,6020A	KL
Sodium, Total	37.4		mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 19:05	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	360		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:24	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-09	Date Collected:	10/08/14 14:45
Client ID:	EQ. BLANK EAST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 18:50	EPA 3005A	1,6020A	KL
Calcium, Total	ND		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:09	EPA 3005A	1,6010C	JH
Iron, Total	ND		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 18:50	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 18:50	EPA 3005A	1,6020A	KL
Magnesium, Total	ND		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:09	EPA 3005A	1,6010C	JH
Manganese, Total	ND		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 18:50	EPA 3005A	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 18:50	EPA 3005A	1,6020A	KL
Sodium, Total	0.145		mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 18:50	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	ND		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:09	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-11	Date Collected:	10/08/14 09:30
Client ID:	MW-58	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 19:12	EPA 3005A	1,6020A	KL
Calcium, Total	66		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:28	EPA 3005A	1,6010C	JH
Iron, Total	0.310		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 19:12	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 19:12	EPA 3005A	1,6020A	KL
Magnesium, Total	20.		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:28	EPA 3005A	1,6010C	JH
Manganese, Total	0.04291		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 19:12	EPA 3005A	1,6020A	KL
Potassium, Total	0.838		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 19:12	EPA 3005A	1,6020A	KL
Sodium, Total	13.7		mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 19:12	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	250		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:28	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-12	Date Collected:	10/08/14 10:00
Client ID:	MW-27	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 19:19	EPA 3005A	1,6020A	KL
Calcium, Total	78		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:32	EPA 3005A	1,6010C	JH
Iron, Total	0.587		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 19:19	EPA 3005A	1,6020A	KL
Lead, Total	0.00039	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 19:19	EPA 3005A	1,6020A	KL
Magnesium, Total	14.		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:32	EPA 3005A	1,6010C	JH
Manganese, Total	0.3922		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 19:19	EPA 3005A	1,6020A	KL
Potassium, Total	1.15		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 19:19	EPA 3005A	1,6020A	KL
Sodium, Total	10.4		mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 19:19	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	250		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:32	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-13	Date Collected:	10/08/14 10:45
Client ID:	MW-36	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 19:37	EPA 3005A	1,6020A	KL
Calcium, Total	70		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 19:36	EPA 3005A	1,6010C	JH
Iron, Total	0.434		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 19:37	EPA 3005A	1,6020A	KL
Lead, Total	0.00015	J	mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 19:37	EPA 3005A	1,6020A	KL
Magnesium, Total	21.		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 19:36	EPA 3005A	1,6010C	JH
Manganese, Total	0.1421		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 19:37	EPA 3005A	1,6020A	KL
Potassium, Total	1.15		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 19:37	EPA 3005A	1,6020A	KL
Sodium, Total	4.69		mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 19:37	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	260		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 19:36	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-14	Date Collected:	10/08/14 11:05
Client ID:	MW-57	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 12:06	10/17/14 12:11	EPA 3005A	1,6020A	KL
Calcium, Total	58		mg/l	0.10	0.03	1	10/16/14 12:06	10/16/14 18:35	EPA 3005A	1,6010C	JH
Iron, Total	0.0649		mg/l	0.0500	0.0120	1	10/16/14 12:06	10/17/14 12:11	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 12:06	10/17/14 12:11	EPA 3005A	1,6020A	KL
Magnesium, Total	18.		mg/l	0.10	0.010	1	10/16/14 12:06	10/16/14 18:35	EPA 3005A	1,6010C	JH
Manganese, Total	0.05595		mg/l	0.00050	0.00030	1	10/16/14 12:06	10/17/14 12:11	EPA 3005A	1,6020A	KL
Potassium, Total	1.31		mg/l	0.100	0.0193	1	10/16/14 12:06	10/17/14 12:11	EPA 3005A	1,6020A	KL
Sodium, Total	10.5		mg/l	0.100	0.0161	1	10/16/14 12:06	10/17/14 12:11	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	220		mg/l	0.66	NA	1	10/16/14 12:06	10/16/14 18:35	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-15	Date Collected:	10/08/14 12:00
Client ID:	MW-55	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 12:06	10/17/14 00:11	EPA 3005A	1,6020A	KL
Calcium, Total	49		mg/l	0.10	0.03	1	10/16/14 12:06	10/16/14 19:02	EPA 3005A	1,6010C	JH
Iron, Total	3.58		mg/l	0.0500	0.0120	1	10/16/14 12:06	10/17/14 00:11	EPA 3005A	1,6020A	KL
Lead, Total	0.00107		mg/l	0.00100	0.00012	1	10/16/14 12:06	10/17/14 00:11	EPA 3005A	1,6020A	KL
Magnesium, Total	15.		mg/l	0.10	0.010	1	10/16/14 12:06	10/16/14 19:02	EPA 3005A	1,6010C	JH
Manganese, Total	0.1369		mg/l	0.00050	0.00030	1	10/16/14 12:06	10/17/14 00:11	EPA 3005A	1,6020A	KL
Potassium, Total	1.95		mg/l	0.100	0.0193	1	10/16/14 12:06	10/17/14 00:11	EPA 3005A	1,6020A	KL
Sodium, Total	11.1		mg/l	0.100	0.0161	1	10/16/14 12:06	10/17/14 00:11	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	10/16/14 12:06	10/16/14 19:02	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-16	Date Collected:	10/08/14 12:30
Client ID:	MW-37	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 12:06	10/17/14 00:18	EPA 3005A	1,6020A	KL
Calcium, Total	41		mg/l	0.10	0.03	1	10/16/14 12:06	10/16/14 19:06	EPA 3005A	1,6010C	JH
Iron, Total	0.805		mg/l	0.0500	0.0120	1	10/16/14 12:06	10/17/14 00:18	EPA 3005A	1,6020A	KL
Lead, Total	0.00040	J	mg/l	0.00100	0.00012	1	10/16/14 12:06	10/17/14 00:18	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	10/16/14 12:06	10/16/14 19:06	EPA 3005A	1,6010C	JH
Manganese, Total	0.07750		mg/l	0.00050	0.00030	1	10/16/14 12:06	10/17/14 00:18	EPA 3005A	1,6020A	KL
Potassium, Total	5.69		mg/l	0.100	0.0193	1	10/16/14 12:06	10/17/14 00:18	EPA 3005A	1,6020A	KL
Sodium, Total	7.40		mg/l	0.100	0.0161	1	10/16/14 12:06	10/17/14 00:18	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	150		mg/l	0.66	NA	1	10/16/14 12:06	10/16/14 19:06	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-17	Date Collected:	10/08/14 14:40
Client ID:	MW-56A	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 12:06	10/17/14 00:26	EPA 3005A	1,6020A	KL
Calcium, Total	44		mg/l	0.10	0.03	1	10/16/14 12:06	10/16/14 19:10	EPA 3005A	1,6010C	JH
Iron, Total	0.370		mg/l	0.0500	0.0120	1	10/16/14 12:06	10/17/14 00:26	EPA 3005A	1,6020A	KL
Lead, Total	0.00025	J	mg/l	0.00100	0.00012	1	10/16/14 12:06	10/17/14 00:26	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	10/16/14 12:06	10/16/14 19:10	EPA 3005A	1,6010C	JH
Manganese, Total	0.03854		mg/l	0.00050	0.00030	1	10/16/14 12:06	10/17/14 00:26	EPA 3005A	1,6020A	KL
Potassium, Total	1.04		mg/l	0.100	0.0193	1	10/16/14 12:06	10/17/14 00:26	EPA 3005A	1,6020A	KL
Sodium, Total	23.6		mg/l	0.100	0.0161	1	10/16/14 12:06	10/17/14 00:26	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	160		mg/l	0.66	NA	1	10/16/14 12:06	10/16/14 19:10	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-18	Date Collected:	10/08/14 14:00
Client ID:	FDWEST	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 12:06	10/17/14 00:40	EPA 3005A	1,6020A	KL
Calcium, Total	42		mg/l	0.10	0.03	1	10/16/14 12:06	10/16/14 19:13	EPA 3005A	1,6010C	JH
Iron, Total	0.146		mg/l	0.0500	0.0120	1	10/16/14 12:06	10/17/14 00:40	EPA 3005A	1,6020A	KL
Lead, Total	0.00018	J	mg/l	0.00100	0.00012	1	10/16/14 12:06	10/17/14 00:40	EPA 3005A	1,6020A	KL
Magnesium, Total	12.		mg/l	0.10	0.010	1	10/16/14 12:06	10/16/14 19:13	EPA 3005A	1,6010C	JH
Manganese, Total	0.03390		mg/l	0.00050	0.00030	1	10/16/14 12:06	10/17/14 00:40	EPA 3005A	1,6020A	KL
Potassium, Total	1.06		mg/l	0.100	0.0193	1	10/16/14 12:06	10/17/14 00:40	EPA 3005A	1,6020A	KL
Sodium, Total	23.8		mg/l	0.100	0.0161	1	10/16/14 12:06	10/17/14 00:40	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	150		mg/l	0.66	NA	1	10/16/14 12:06	10/16/14 19:13	EPA 3005A	1,6010C	JH

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

SAMPLE RESULTS

Lab ID:	L1423827-19	Date Collected:	10/08/14 15:15
Client ID:	MW-28	Date Received:	10/08/14
Sample Location:	READING, NY	Field Prep:	Not Specified
Matrix:	Water		

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Westborough Lab											
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 12:06	10/17/14 00:47	EPA 3005A	1,6020A	KL
Calcium, Total	52		mg/l	0.10	0.03	1	10/16/14 12:06	10/16/14 19:17	EPA 3005A	1,6010C	JH
Iron, Total	0.362		mg/l	0.0500	0.0120	1	10/16/14 12:06	10/17/14 00:47	EPA 3005A	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 12:06	10/17/14 00:47	EPA 3005A	1,6020A	KL
Magnesium, Total	14.		mg/l	0.10	0.010	1	10/16/14 12:06	10/16/14 19:17	EPA 3005A	1,6010C	JH
Manganese, Total	0.07661		mg/l	0.00050	0.00030	1	10/16/14 12:06	10/17/14 00:47	EPA 3005A	1,6020A	KL
Potassium, Total	1.16		mg/l	0.100	0.0193	1	10/16/14 12:06	10/17/14 00:47	EPA 3005A	1,6020A	KL
Sodium, Total	7.43		mg/l	0.100	0.0161	1	10/16/14 12:06	10/17/14 00:47	EPA 3005A	1,6020A	KL
Total Hardness by SM 2340B - Westborough Lab											
Hardness	180		mg/l	0.66	NA	1	10/16/14 12:06	10/16/14 19:17	EPA 3005A	1,6010C	JH

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-09,11-13 Batch: WG731304-1										
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/15/14 13:13	10/16/14 17:20	1,6020A	KL
Iron, Total	ND		mg/l	0.0500	0.0120	1	10/15/14 13:13	10/16/14 17:20	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/15/14 13:13	10/16/14 17:20	1,6020A	KL
Manganese, Total	ND		mg/l	0.00050	0.00030	1	10/15/14 13:13	10/16/14 17:20	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0193	1	10/15/14 13:13	10/16/14 17:20	1,6020A	KL
Sodium, Total	0.0630	J	mg/l	0.100	0.0161	1	10/15/14 13:13	10/16/14 17:20	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 01-09,11-13 Batch: WG731307-1										
Calcium, Total	ND		mg/l	0.10	0.03	1	10/15/14 13:13	10/15/14 18:19	1,6010C	JH
Magnesium, Total	ND		mg/l	0.10	0.010	1	10/15/14 13:13	10/15/14 18:19	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 01-09,11-13 Batch: WG731307-1										
Hardness	ND		mg/l	0.66	NA	1	10/15/14 13:13	10/15/14 18:19	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 14-19 Batch: WG731665-1										
Calcium, Total	ND		mg/l	0.10	0.03	1	10/16/14 12:06	10/16/14 17:24	1,6010C	JH
Magnesium, Total	0.010	J	mg/l	0.10	0.010	1	10/16/14 12:06	10/16/14 17:24	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Hardness by SM 2340B - Westborough Lab for sample(s): 14-19 Batch: WG731665-1										
Hardness	ND		mg/l	0.66	NA	1	10/16/14 12:06	10/16/14 17:24	1,6010C	JH

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Westborough Lab for sample(s): 14-19 Batch: WG731666-1										
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	10/16/14 12:06	10/17/14 11:57	1,6020A	KL
Iron, Total	ND		mg/l	0.0500	0.0120	1	10/16/14 12:06	10/17/14 11:57	1,6020A	KL
Lead, Total	ND		mg/l	0.00100	0.00012	1	10/16/14 12:06	10/17/14 11:57	1,6020A	KL
Manganese, Total	ND		mg/l	0.00050	0.00030	1	10/16/14 12:06	10/17/14 11:57	1,6020A	KL
Potassium, Total	ND		mg/l	0.100	0.0193	1	10/16/14 12:06	10/17/14 11:57	1,6020A	KL
Sodium, Total	ND		mg/l	0.100	0.0161	1	10/16/14 12:06	10/17/14 11:57	1,6020A	KL

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-09,11-13 Batch: WG731304-2								
Cadmium, Total	106		-		80-120	-		
Iron, Total	111		-		80-120	-		
Lead, Total	105		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Potassium, Total	98		-		80-120	-		
Sodium, Total	99		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 01-09,11-13 Batch: WG731307-2								
Calcium, Total	100		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-09,11-13 Batch: WG731307-2								
Hardness	101		-		80-120	-		
Total Metals - Westborough Lab Associated sample(s): 14-19 Batch: WG731665-2								
Calcium, Total	100		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 14-19 Batch: WG731665-2								
Hardness	104		-		80-120	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 14-19 Batch: WG731666-2					
Cadmium, Total	108	-	80-120	-	
Iron, Total	98	-	80-120	-	
Lead, Total	106	-	80-120	-	
Manganese, Total	103	-	80-120	-	
Potassium, Total	108	-	80-120	-	
Sodium, Total	113	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-09,11-13 QC Batch ID: WG731304-4 QC Sample: L1423827-01 Client ID: MW-50												
Cadmium, Total	ND	0.051	0.05994	118		-	-		75-125	-		20
Iron, Total	3.28	1	4.62	**134**	Q	-	-		75-125	-		20
Lead, Total	0.00028J	0.51	0.5490	108		-	-		75-125	-		20
Manganese, Total	0.5540	0.5	1.070	103		-	-		75-125	-		20
Potassium, Total	4.56	10	19.1	**145**	Q	-	-		75-125	-		20
Sodium, Total	388.	10	410	**220**	Q	-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 01-09,11-13 QC Batch ID: WG731307-4 QC Sample: L1423827-01 Client ID: MW-50												
Calcium, Total	340	10	350	100		-	-		75-125	-		20
Magnesium, Total	140	10	140	**0**	Q	-	-		75-125	-		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-09,11-13 QC Batch ID: WG731307-4 QC Sample: L1423827-01 Client ID: MW-50												
Hardness	1400	66.2	1500	**151**	Q	-	-		75-125	-		20
Total Metals - Westborough Lab Associated sample(s): 14-19 QC Batch ID: WG731665-4 QC Sample: L1423827-14 Client ID: MW-57												
Calcium, Total	58.	10	74	**160**	Q	-	-		75-125	-		20
Magnesium, Total	18.	10	30	120		-	-		75-125	-		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 14-19 QC Batch ID: WG731665-4 QC Sample: L1423827-14 Client ID: MW-57												
Hardness	220	66.2	310	**136**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 14-19 QC Batch ID: WG731666-4 QC Sample: L1423827-14 Client ID: MW-57										
Cadmium, Total	ND	0.051	0.05930	116		-	-	75-125	-	20
Iron, Total	0.0649	1	1.11	104		-	-	75-125	-	20
Lead, Total	ND	0.51	0.5580	109		-	-	75-125	-	20
Manganese, Total	0.05595	0.5	0.5954	108		-	-	75-125	-	20
Potassium, Total	1.31	10	14.0	**127**	Q	-	-	75-125	-	20
Sodium, Total	10.5	10	24.7	**142**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 01-09,11-13 QC Batch ID: WG731304-3 QC Sample: L1423827-01 Client ID: MW-50						
Manganese, Total	0.5540	0.5424	mg/l	2		20
Sodium, Total	388.	392	mg/l	1		20
Total Metals - Westborough Lab Associated sample(s): 01-09,11-13 QC Batch ID: WG731304-3 QC Sample: L1423827-01 Client ID: MW-50						
Cadmium, Total	ND	ND	mg/l	NC		20
Iron, Total	3.28	3.31	mg/l	1		20
Lead, Total	0.00028J	0.00027J	mg/l	NC		20
Potassium, Total	4.56	4.53	mg/l	1		20
Total Metals - Westborough Lab Associated sample(s): 01-09,11-13 QC Batch ID: WG731307-3 QC Sample: L1423827-01 Client ID: MW-50						
Calcium, Total	340	340	mg/l	0		20
Magnesium, Total	140	140	mg/l	0		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 01-09,11-13 QC Batch ID: WG731307-3 QC Sample: L1423827-01 Client ID: MW-50						
Hardness	1400	1400	mg/l	0		20
Total Metals - Westborough Lab Associated sample(s): 14-19 QC Batch ID: WG731665-3 QC Sample: L1423827-14 Client ID: MW-57						
Calcium, Total	58.	59	mg/l	2		20
Magnesium, Total	18.	18	mg/l	0		20
Total Hardness by SM 2340B - Westborough Lab Associated sample(s): 14-19 QC Batch ID: WG731665-3 QC Sample: L1423827-14 Client ID: MW-57						
Hardness	220	220	mg/l	0		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Westborough Lab Associated sample(s): 14-19 QC Batch ID: WG731666-3 QC Sample: L1423827-14 Client ID: MW-57					
Cadmium, Total	ND	ND	mg/l	NC	20
Iron, Total	0.0649	0.0609	mg/l	6	20
Lead, Total	ND	ND	mg/l	NC	20
Manganese, Total	0.05595	0.05247	mg/l	6	20
Potassium, Total	1.31	1.27	mg/l	3	20
Sodium, Total	10.5	9.72	mg/l	8	20

INORGANICS
&
MISCELLANEOUS

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-01
Client ID: MW-50
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 09:30
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	357.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	3.4		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	3400		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.109		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:12	44,350.1	AT
Nitrogen, Nitrate	0.40		mg/l	0.10	0.021	1	-	10/11/14 03:04	44,353.2	DB
Nitrogen, Total Kjeldahl	0.30		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:17	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	5.0	J	mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.490	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:00	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.408	25	-	10/15/14 00:36	44,300.0	AU
Chloride	1480		mg/l	50.0	9.74	100	-	10/15/14 03:24	44,300.0	AU
Sulfate	112.		mg/l	25.0	3.25	25	-	10/15/14 00:36	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-02
Client ID: MW-49
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 10:10
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	362.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	2.9		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	3000		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.993		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:12	44,350.1	AT
Nitrogen, Nitrate	0.33		mg/l	0.10	0.021	1	-	10/11/14 03:06	44,353.2	DB
Nitrogen, Total Kjeldahl	1.1		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:18	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	9.5	J	mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	4.3		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.500		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:04	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.50	0.815	50	-	10/15/14 00:48	44,300.0	AU
Chloride	1310		mg/l	25.0	4.87	50	-	10/15/14 00:48	44,300.0	AU
Sulfate	104.		mg/l	50.0	6.50	50	-	10/15/14 00:48	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-03
Client ID: MW-22
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 10:50
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	375.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	1100		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.292		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:13	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:08	44,353.2	DB
Nitrogen, Total Kjeldahl	0.47		mg/l	0.30	0.093	1	10/10/14 22:42	10/14/14 22:19	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.790		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:07	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	1.25	0.408	25	-	10/15/14 01:00	44,300.0	AU
Chloride	385.		mg/l	12.5	2.44	25	-	10/15/14 01:00	44,300.0	AU
Sulfate	66.7		mg/l	25.0	3.25	25	-	10/15/14 01:00	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-04
Client ID: MW-23
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 11:40
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	330.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	3.5		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	3700		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.066	J	mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:14	44,350.1	AT
Nitrogen, Nitrate	0.60		mg/l	0.10	0.021	1	-	10/11/14 03:09	44,353.2	DB
Nitrogen, Total Kjeldahl	0.24	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:29	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	19.		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.440	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:08	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.50	0.815	50	-	10/15/14 01:48	44,300.0	AU
Chloride	1590		mg/l	25.0	4.87	50	-	10/15/14 01:48	44,300.0	AU
Sulfate	144.		mg/l	50.0	6.50	50	-	10/15/14 01:48	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-05
Client ID: MW-44
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 12:10
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	326.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	3.7		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	3800		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.133		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:15	44,350.1	AT
Nitrogen, Nitrate	0.55		mg/l	0.10	0.021	1	-	10/11/14 03:10	44,353.2	DB
Nitrogen, Total Kjeldahl	0.27	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:30	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	14.		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.400	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:09	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	2.50	0.815	50	-	10/15/14 02:00	44,300.0	AU
Chloride	1670		mg/l	25.0	4.87	50	-	10/15/14 02:00	44,300.0	AU
Sulfate	126.		mg/l	50.0	6.50	50	-	10/15/14 02:00	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-06
Client ID: MW-45
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 13:10
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	406.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	820		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.165		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:18	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:10	44,353.2	DB
Nitrogen, Total Kjeldahl	0.34		mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:31	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	1.00		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:10	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 02:12	44,300.0	AU
Chloride	127.		mg/l	5.00	0.974	10	-	10/15/14 02:12	44,300.0	AU
Sulfate	142.		mg/l	10.0	1.30	10	-	10/15/14 02:12	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-07
Client ID: DUP EAST
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 13:10
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	404.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	780		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.163		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:19	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:11	44,353.2	DB
Nitrogen, Total Kjeldahl	0.36		mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:32	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	1.00		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:11	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 02:24	44,300.0	AU
Chloride	136.		mg/l	5.00	0.974	10	-	10/15/14 02:24	44,300.0	AU
Sulfate	133.		mg/l	10.0	1.30	10	-	10/15/14 02:24	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-08
Client ID: MW-43
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 14:05
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	404.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	530		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.154		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:20	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:12	44,353.2	DB
Nitrogen, Total Kjeldahl	0.58		mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:33	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:21	44,410.4	TL
BOD, 5 day	ND		mg/l	5.0	NA	2.5	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	2.67		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:11	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.250	0.081	5	-	10/15/14 02:36	44,300.0	AU
Chloride	21.4		mg/l	2.50	0.487	5	-	10/15/14 02:36	44,300.0	AU
Sulfate	73.0		mg/l	5.00	0.650	5	-	10/15/14 02:36	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-09
Client ID: EQ. BLANK EAST
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 14:45
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.045	J	mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:35	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:13	44,353.2	DB
Nitrogen, Total Kjeldahl	0.12	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:34	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:22	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.160	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 15:12	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 01:12	44,300.0	AU
Chloride	ND		mg/l	0.500	0.097	1	-	10/15/14 01:12	44,300.0	AU
Sulfate	0.421	J	mg/l	1.00	0.130	1	-	10/15/14 01:12	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-11
Client ID: MW-58
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 09:30
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	248.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	340		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.185		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:31	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:13	44,353.2	DB
Nitrogen, Total Kjeldahl	0.25	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:35	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:22	44,410.4	TL
BOD, 5 day	2.1		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.450	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:06	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.100	0.032	2	-	10/15/14 02:48	44,300.0	AU
Chloride	2.59		mg/l	1.00	0.195	2	-	10/15/14 02:48	44,300.0	AU
Sulfate	48.2		mg/l	2.00	0.260	2	-	10/15/14 02:48	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-12
Client ID: MW-27
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 10:00
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	203.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	350		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.029	J	mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:32	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:14	44,353.2	DB
Nitrogen, Total Kjeldahl	0.24	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:38	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:22	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	1.11		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:10	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.500	0.163	10	-	10/15/14 03:00	44,300.0	AU
Chloride	8.37		mg/l	5.00	0.974	10	-	10/15/14 03:00	44,300.0	AU
Sulfate	106.		mg/l	10.0	1.30	10	-	10/15/14 03:00	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-13
Client ID: MW-36
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 10:45
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	228.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	320		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.156		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:33	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:15	44,353.2	DB
Nitrogen, Total Kjeldahl	0.16	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:39	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:22	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.600		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:11	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.100	0.032	2	-	10/15/14 03:12	44,300.0	AU
Chloride	4.92		mg/l	1.00	0.195	2	-	10/15/14 03:12	44,300.0	AU
Sulfate	60.7		mg/l	2.00	0.260	2	-	10/15/14 03:12	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-14
Client ID: MW-57
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 11:05
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	225.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	300		mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
Nitrogen, Ammonia	0.117		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:34	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:35	44,353.2	DB
Nitrogen, Total Kjeldahl	0.25	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:40	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:22	44,410.4	TL
BOD, 5 day	2.2		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.460	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:14	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.100	0.032	2	-	10/15/14 04:00	44,300.0	AU
Chloride	4.15		mg/l	1.00	0.195	2	-	10/15/14 04:00	44,300.0	AU
Sulfate	45.6		mg/l	2.00	0.260	2	-	10/15/14 04:00	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-15
Client ID: MW-55
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 12:00
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	176.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	250		mg/l	10	3.6	1	-	10/09/14 15:35	30,2540C	DW
Nitrogen, Ammonia	0.142		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:35	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:36	44,353.2	DB
Nitrogen, Total Kjeldahl	0.38		mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:41	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	12.		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:23	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.440	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:15	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.100	0.032	2	-	10/15/14 04:12	44,300.0	AU
Chloride	0.906	J	mg/l	1.00	0.195	2	-	10/15/14 04:12	44,300.0	AU
Sulfate	40.1		mg/l	2.00	0.260	2	-	10/15/14 04:12	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-16
Client ID: MW-37
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 12:30
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	149.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	190		mg/l	10	3.6	1	-	10/09/14 15:35	30,2540C	DW
Nitrogen, Ammonia	0.099		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:39	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:37	44,353.2	DB
Nitrogen, Total Kjeldahl	0.19	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:41	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:23	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.480	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:15	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 04:24	44,300.0	AU
Chloride	2.65		mg/l	0.500	0.097	1	-	10/15/14 04:24	44,300.0	AU
Sulfate	21.6		mg/l	1.00	0.130	1	-	10/15/14 04:24	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-17
Client ID: MW-56A
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 14:40
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	199.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	240		mg/l	10	3.6	1	-	10/09/14 15:35	30,2540C	DW
Nitrogen, Ammonia	0.225		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:40	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:37	44,353.2	DB
Nitrogen, Total Kjeldahl	0.35		mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:42	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:23	44,410.4	TL
BOD, 5 day	2.5		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.350	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:16	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 04:36	44,300.0	AU
Chloride	0.659		mg/l	0.500	0.097	1	-	10/15/14 04:36	44,300.0	AU
Sulfate	21.0		mg/l	1.00	0.130	1	-	10/15/14 04:36	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-18
Client ID: FDWEST
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 14:00
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	203.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	220		mg/l	10	3.6	1	-	10/09/14 15:35	30,2540C	DW
Nitrogen, Ammonia	0.219		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:41	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:38	44,353.2	DB
Nitrogen, Total Kjeldahl	0.36		mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:43	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:23	44,410.4	TL
BOD, 5 day	2.4		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.350	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:17	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 04:48	44,300.0	AU
Chloride	0.673		mg/l	0.500	0.097	1	-	10/15/14 04:48	44,300.0	AU
Sulfate	21.0		mg/l	1.00	0.130	1	-	10/15/14 04:48	44,300.0	AU

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

SAMPLE RESULTS

Lab ID: L1423827-19
Client ID: MW-28
Sample Location: READING, NY
Matrix: Water

Date Collected: 10/08/14 15:15
Date Received: 10/08/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Alkalinity, Total	178.		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
SALINITY	ND		SU	2.0	2.0	1	-	10/09/14 20:15	30,2520B	AS
Solids, Total Dissolved	240		mg/l	10	3.6	1	-	10/09/14 15:35	30,2540C	DW
Nitrogen, Ammonia	0.027	J	mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:41	44,350.1	AT
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 03:39	44,353.2	DB
Nitrogen, Total Kjeldahl	0.18	J	mg/l	0.30	0.093	1	10/09/14 23:33	10/14/14 22:44	4,351.3/.1 (M)	AT
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:23	44,410.4	TL
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
Total Organic Carbon	0.410	J	mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:18	4,420.1	MP
Anions by Ion Chromatography - Westborough Lab										
Bromide	ND		mg/l	0.050	0.016	1	-	10/15/14 05:00	44,300.0	AU
Chloride	1.67		mg/l	0.500	0.097	1	-	10/15/14 05:00	44,300.0	AU
Sulfate	37.2		mg/l	1.00	0.130	1	-	10/15/14 05:00	44,300.0	AU

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 15-19 Batch: WG729472-1										
Solids, Total Dissolved	ND		mg/l	10	3.6	1	-	10/09/14 15:35	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-09 Batch: WG729535-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/09/14 12:15	10/09/14 14:56	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG729604-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	10/09/14 13:35	10/09/14 20:08	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 01-09,11-19 Batch: WG729648-1										
Alkalinity, Total	ND		mg CaCO3/L	2.00	NA	1	-	10/09/14 09:03	30,2320B	SG
General Chemistry - Westborough Lab for sample(s): 01-09,11-19 Batch: WG729685-1										
BOD, 5 day	ND		mg/l	2.0	NA	1	10/09/14 21:05	10/14/14 15:30	30,5210B	SE
General Chemistry - Westborough Lab for sample(s): 01-09,11-19 Batch: WG729701-1										
Nitrogen, Nitrate	ND		mg/l	0.10	0.021	1	-	10/11/14 02:26	44,353.2	DB
General Chemistry - Westborough Lab for sample(s): 09,11-19 Batch: WG729702-1										
Nitrogen, Ammonia	ND		mg/l	0.075	0.021	1	10/09/14 19:27	10/13/14 21:18	44,350.1	AT
General Chemistry - Westborough Lab for sample(s): 04-09,11-19 Batch: WG729742-1										
Nitrogen, Total Kjeldahl	ND		mg/l	0.30	0.031	1	10/09/14 23:33	10/14/14 22:27	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 12-14 Batch: WG729850-1										
Solids, Total Dissolved	6.0	J	mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 01-09,11 Batch: WG729853-1										
Solids, Total Dissolved	6.0	J	mg/l	10	3.6	1	-	10/10/14 13:00	30,2540C	DW
General Chemistry - Westborough Lab for sample(s): 11-19 Batch: WG729858-1										
Phenolics, Total	ND		mg/l	0.030	0.009	1	10/10/14 11:15	10/10/14 14:03	4,420.1	MP
General Chemistry - Westborough Lab for sample(s): 01-09,11-19 Batch: WG730050-1										
Chemical Oxygen Demand	ND		mg/l	10	3.5	1	10/10/14 18:40	10/10/14 21:20	44,410.4	TL
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG730104-1										
Nitrogen, Total Kjeldahl	0.14	J	mg/l	0.30	0.031	1	10/10/14 22:42	10/14/14 22:00	4,351.3/.1 (M)	AT
General Chemistry - Westborough Lab for sample(s): 01-09,11-19 Batch: WG730928-1										
Total Organic Carbon	ND		mg/l	0.500	0.118	1	-	10/14/14 07:20	30,5310C	DW

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827

Project Number: 08.8696 **Report Date:** 10/17/14

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Anions by Ion Chromatography - Westborough Lab for sample(s): 01-09,11-19 Batch: WG731491-1										
Bromide	ND		mg/l	0.050	0.016	1	-	10/14/14 23:36	44,300.0	AU
Chloride	ND		mg/l	0.500	0.097	1	-	10/14/14 23:36	44,300.0	AU
Sulfate	ND		mg/l	1.00	0.130	1	-	10/14/14 23:36	44,300.0	AU

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 15-19 Batch: WG729472-2								
Solids, Total Dissolved	99		-		80-120	-		
General Chemistry - Westborough Lab Associated sample(s): 01-09 Batch: WG729535-2								
Phenolics, Total	102		-		70-130	-		
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG729604-2								
Nitrogen, Ammonia	100		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 Batch: WG729648-3								
Alkalinity, Total	104		-		90-110	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 Batch: WG729685-2								
BOD, 5 day	**118**	Q	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 Batch: WG729701-2								
Nitrogen, Nitrate	94		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 09,11-19 Batch: WG729702-2								
Nitrogen, Ammonia	100		-		80-120	-		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 Batch: WG729711-1					
SALINITY	99	-		-	
General Chemistry - Westborough Lab Associated sample(s): 04-09,11-19 Batch: WG729742-2					
Nitrogen, Total Kjeldahl	102	-	78-122	-	
General Chemistry - Westborough Lab Associated sample(s): 12-14 Batch: WG729850-2					
Solids, Total Dissolved	103	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 01-09,11 Batch: WG729853-2					
Solids, Total Dissolved	103	-	80-120	-	
General Chemistry - Westborough Lab Associated sample(s): 11-19 Batch: WG729858-2					
Phenolics, Total	100	-	70-130	-	
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 Batch: WG730050-2					
Chemical Oxygen Demand	96	-	95-105	-	
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG730104-2					
Nitrogen, Total Kjeldahl	100	-	78-122	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 Batch: WG730928-2					
Total Organic Carbon	98	-	90-110	-	
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-09,11-19 Batch: WG731491-2					
Bromide	92	-	90-110	-	
Chloride	96	-	90-110	-	
Sulfate	101	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696
Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG729535-4 QC Sample: L1423827-01 Client ID: MW-50												
Phenolics, Total	ND	0.4	0.39	97		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG729604-4 QC Sample: L1423827-08 Client ID: MW-43												
Nitrogen, Ammonia	0.154	4	4.25	102		-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG729648-4 QC Sample: L1423827-06 Client ID: MW-45												
Alkalinity, Total	406.	100	513	107		-	-		86-116	-		10
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG729685-4 QC Sample: L1423827-09 Client ID: EQ. BLANK EAST												
BOD, 5 day	ND	100	130	130		-	-		50-145	-		35
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG729701-4 QC Sample: L1423827-01 Client ID: MW-50												
Nitrogen, Nitrate	0.40	4	3.4	**75**	Q	-	-		83-113	-		6
General Chemistry - Westborough Lab Associated sample(s): 09,11-19 QC Batch ID: WG729702-4 QC Sample: L1400010-54 Client ID: MS Sample												
Nitrogen, Ammonia	34.0	4	39.4	**135**	Q	-	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 04-09,11-19 QC Batch ID: WG729742-4 QC Sample: L1423827-19 Client ID: MW-28												
Nitrogen, Total Kjeldahl	0.18J	8	8.3	104		-	-		77-111	-		24
General Chemistry - Westborough Lab Associated sample(s): 11-19 QC Batch ID: WG729858-4 QC Sample: L1423827-11 Client ID: MW-58												
Phenolics, Total	ND	0.4	0.38	95		-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG730050-3 QC Sample: L1423827-02 Client ID: MW-49												
Chemical Oxygen Demand	9.5J	47.6	50	105		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG730104-4 QC Sample: L1424008-01 Client ID: MS Sample									
Nitrogen, Total Kjeldahl	0.42	8	8.3	98	-	-	77-111	-	24
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG730928-4 QC Sample: L1424008-01 Client ID: MS Sample									
Total Organic Carbon	0.870	4	4.22	84	-	-	80-120	-	20
Anions by Ion Chromatography - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG731491-3 WG731491-4 QC Sample: L1424008-01 Client ID: MS Sample									
Bromide	ND	10	8.34	83	8.36	85	77-119	0	20
Chloride	148.	100	258	110	258	110	40-151	0	18
Sulfate	147.	200	390	122	379	116	60-140	3	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 15-19 QC Batch ID: WG729472-3 QC Sample: L1423756-01 Client ID: DUP Sample						
Solids, Total Dissolved	10000	10000	mg/l	0		17
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG729535-3 QC Sample: L1423827-01 Client ID: MW-50						
Phenolics, Total	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG729604-3 QC Sample: L1423827-08 Client ID: MW-43						
Nitrogen, Ammonia	0.154	0.171	mg/l	10		20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG729648-2 QC Sample: L1423827-06 Client ID: MW-45						
Alkalinity, Total	406.	400	mg CaCO3/L	1		10
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG729685-3 QC Sample: L1423730-01 Client ID: DUP Sample						
BOD, 5 day	180	190	mg/l	5		35
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG729701-3 QC Sample: L1423827-01 Client ID: MW-50						
Nitrogen, Nitrate	0.40	ND	mg/l	NC		6
General Chemistry - Westborough Lab Associated sample(s): 09,11-19 QC Batch ID: WG729702-3 QC Sample: L1400010-54 Client ID: DUP Sample						
Nitrogen, Ammonia	34.0	34.8	mg/l	2		20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG729711-2 QC Sample: L1423827-19 Client ID: MW-28						
SALINITY	ND	ND	SU	NC		
General Chemistry - Westborough Lab Associated sample(s): 04-09,11-19 QC Batch ID: WG729742-3 QC Sample: L1423827-19 Client ID: MW-28						
Nitrogen, Total Kjeldahl	0.18J	0.17J	mg/l	NC		24

Lab Duplicate Analysis
Batch Quality Control

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 12-14 QC Batch ID: WG729850-3 QC Sample: L1423904-01 Client ID: DUP Sample					
Solids, Total Dissolved	82.	78	mg/l	5	17
General Chemistry - Westborough Lab Associated sample(s): 01-09,11 QC Batch ID: WG729853-3 QC Sample: L1423827-01 Client ID: MW-50					
Solids, Total Dissolved	3400	3300	mg/l	3	17
General Chemistry - Westborough Lab Associated sample(s): 11-19 QC Batch ID: WG729858-3 QC Sample: L1423827-11 Client ID: MW-58					
Phenolics, Total	ND	ND	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG730050-4 QC Sample: L1423827-02 Client ID: MW-49					
Chemical Oxygen Demand	9.5J	14	mg/l	NC	20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG730104-3 QC Sample: L1424008-01 Client ID: DUP Sample					
Nitrogen, Total Kjeldahl	0.42	0.43	mg/l	2	24
General Chemistry - Westborough Lab Associated sample(s): 01-09,11-19 QC Batch ID: WG730928-3 QC Sample: L1424008-01 Client ID: DUP Sample					
Total Organic Carbon	0.870	0.940	mg/l	8	20

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler	
A	Absent
D	Absent
B	Absent
C	Absent
E	Absent
F	Absent
G	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-01A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-01B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-01C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-01D	Vial H2SO4 preserved	E	N/A	3.8	Y	Absent	TOC-5310(28)
L1423827-01E	Vial H2SO4 preserved	E	N/A	3.8	Y	Absent	TOC-5310(28)
L1423827-01F	Plastic 250ml unpreserved	E	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1423827-01G	Plastic 250ml NaOH preserved	E	>12	3.8	Y	Absent	HOLD-WETCHEM(0)
L1423827-01H	Plastic 250ml HNO3 preserved	E	<2	3.8	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-01I	Plastic 500ml unpreserved	E	7	3.8	Y	Absent	BOD-5210(2)
L1423827-01J	Plastic 500ml H2SO4 preserved	E	<2	3.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-01K	Amber 250ml unpreserved	E	7	3.8	Y	Absent	SALINITY(28)
L1423827-01L	Amber 500ml H2SO4 preserved	E	<2	3.8	Y	Absent	TPHENOL-420(28)
L1423827-01M	Plastic 1000ml unpreserved	E	7	3.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-02A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-02B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-02C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-02D	Vial H2SO4 preserved	E	N/A	3.8	Y	Absent	TOC-5310(28)
L1423827-02E	Vial H2SO4 preserved	E	N/A	3.8	Y	Absent	TOC-5310(28)
L1423827-02F	Plastic 250ml unpreserved	E	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1423827-02G	Plastic 250ml NaOH preserved	E	>12	3.8	Y	Absent	HOLD-WETCHEM(0)
L1423827-02H	Plastic 250ml HNO3 preserved	E	<2	3.8	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-02I	Plastic 500ml unpreserved	E	7	3.8	Y	Absent	BOD-5210(2)
L1423827-02J	Plastic 500ml H2SO4 preserved	E	<2	3.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-02K	Amber 250ml unpreserved	E	7	3.8	Y	Absent	SALINITY(28)
L1423827-02L	Amber 500ml H2SO4 preserved	E	<2	3.8	Y	Absent	TPHENOL-420(28)
L1423827-02M	Plastic 1000ml unpreserved	E	7	3.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-03A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-03B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-03C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-03D	Vial H2SO4 preserved	E	N/A	3.8	Y	Absent	TOC-5310(28)
L1423827-03E	Vial H2SO4 preserved	E	N/A	3.8	Y	Absent	TOC-5310(28)
L1423827-03F	Plastic 250ml unpreserved	E	N/A	3.8	Y	Absent	ALK-T-2320(14)
L1423827-03G	Plastic 250ml NaOH preserved	E	>12	3.8	Y	Absent	HOLD-WETCHEM(0)
L1423827-03H	Plastic 250ml HNO3 preserved	E	<2	3.8	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-03I	Plastic 500ml unpreserved	E	7	3.8	Y	Absent	BOD-5210(2)
L1423827-03J	Plastic 500ml H2SO4 preserved	E	<2	3.8	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-03K	Amber 250ml unpreserved	E	7	3.8	Y	Absent	SALINITY(28)
L1423827-03L	Amber 500ml H2SO4 preserved	E	<2	3.8	Y	Absent	TPHENOL-420(28)
L1423827-03M	Plastic 1000ml unpreserved	E	7	3.8	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-04A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-04B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-04C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-04D	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1423827-04E	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1423827-04F	Plastic 250ml unpreserved	B	N/A	4.9	Y	Absent	ALK-T-2320(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-04G	Plastic 250ml NaOH preserved	B	>12	4.9	Y	Absent	HOLD-WETCHEM(0)
L1423827-04H	Plastic 250ml HNO3 preserved	B	<2	4.9	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-04I	Plastic 500ml unpreserved	B	7	4.9	Y	Absent	BOD-5210(2)
L1423827-04J	Plastic 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-04K	Amber 250ml unpreserved	B	7	4.9	Y	Absent	SALINITY(28)
L1423827-04L	Amber 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TPHENOL-420(28)
L1423827-04M	Plastic 1000ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-05A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-05B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-05C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-05D	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1423827-05E	Vial H2SO4 preserved	B	N/A	4.9	Y	Absent	TOC-5310(28)
L1423827-05F	Plastic 250ml unpreserved	B	N/A	4.9	Y	Absent	ALK-T-2320(14)
L1423827-05G	Plastic 250ml NaOH preserved	B	>12	4.9	Y	Absent	HOLD-WETCHEM(0)
L1423827-05H	Plastic 250ml HNO3 preserved	B	<2	4.9	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-05I	Plastic 500ml unpreserved	B	7	4.9	Y	Absent	BOD-5210(2)
L1423827-05J	Plastic 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-05K	Amber 250ml unpreserved	B	7	4.9	Y	Absent	SALINITY(28)
L1423827-05L	Amber 500ml H2SO4 preserved	B	<2	4.9	Y	Absent	TPHENOL-420(28)
L1423827-05M	Plastic 1000ml unpreserved	B	7	4.9	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-06A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-06B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-06C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-06D	Vial H2SO4 preserved	C	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-06E	Vial H2SO4 preserved	C	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-06F	Plastic 250ml unpreserved	C	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1423827-06G	Plastic 250ml NaOH preserved	C	>12	5.2	Y	Absent	HOLD-WETCHEM(0)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-06H	Plastic 250ml HNO3 preserved	C	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-06I	Plastic 500ml unpreserved	C	7	5.2	Y	Absent	BOD-5210(2)
L1423827-06J	Plastic 500ml H2SO4 preserved	C	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-06K	Amber 250ml unpreserved	C	7	5.2	Y	Absent	SALINITY(28)
L1423827-06L	Amber 500ml H2SO4 preserved	C	<2	5.2	Y	Absent	TPHENOL-420(28)
L1423827-06M	Plastic 1000ml unpreserved	C	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-07A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-07B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-07C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-07D	Vial H2SO4 preserved	C	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-07E	Vial H2SO4 preserved	C	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-07F	Plastic 250ml unpreserved	C	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1423827-07G	Plastic 250ml NaOH preserved	C	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1423827-07H	Plastic 250ml HNO3 preserved	C	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-07I	Plastic 500ml unpreserved	C	7	5.2	Y	Absent	BOD-5210(2)
L1423827-07J	Plastic 500ml H2SO4 preserved	C	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-07K	Amber 250ml unpreserved	C	7	5.2	Y	Absent	SALINITY(28)
L1423827-07L	Amber 500ml H2SO4 preserved	C	<2	5.2	Y	Absent	TPHENOL-420(28)
L1423827-07M	Plastic 1000ml unpreserved	C	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-08A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-08B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-08C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-08D	Vial H2SO4 preserved	C	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-08E	Vial H2SO4 preserved	C	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-08F	Plastic 250ml unpreserved	C	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1423827-08G	Plastic 250ml NaOH preserved	C	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1423827-08H	Plastic 250ml HNO3 preserved	C	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-08I	Plastic 500ml unpreserved	C	7	5.2	Y	Absent	BOD-5210(2)
L1423827-08J	Plastic 500ml H2SO4 preserved	C	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-08K	Amber 250ml unpreserved	C	7	5.2	Y	Absent	SALINITY(28)
L1423827-08L	Amber 500ml H2SO4 preserved	C	<2	5.2	Y	Absent	TPHENOL-420(28)
L1423827-08M	Plastic 1000ml unpreserved	C	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-09A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-09B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-09C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-09D	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-09E	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-09F	Plastic 250ml unpreserved	G	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1423827-09G	Plastic 250ml NaOH preserved	G	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1423827-09H	Plastic 250ml HNO3 preserved	G	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-09I	Plastic 500ml unpreserved	G	7	5.2	Y	Absent	BOD-5210(2)
L1423827-09J	Plastic 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-09K	Amber 250ml unpreserved	G	7	5.2	Y	Absent	SALINITY(28)
L1423827-09L	Amber 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TPHENOL-420(28)
L1423827-09M	Plastic 1000ml unpreserved	G	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-10A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-10B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-10C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-11A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-11B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-11C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-11D	Vial H2SO4 preserved	F	N/A	5.7	Y	Absent	TOC-5310(28)
L1423827-11E	Vial H2SO4 preserved	F	N/A	5.7	Y	Absent	TOC-5310(28)
L1423827-11F	Plastic 250ml unpreserved	F	N/A	5.7	Y	Absent	ALK-T-2320(14)
L1423827-11G	Plastic 250ml NaOH preserved	F	>12	5.7	Y	Absent	HOLD-WETCHEM(0)
L1423827-11H	Plastic 250ml HNO3 preserved	F	<2	5.7	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-11I	Plastic 500ml unpreserved	F	7	5.7	Y	Absent	BOD-5210(2)
L1423827-11J	Plastic 500ml H2SO4 preserved	F	<2	5.7	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-11K	Amber 250ml unpreserved	F	7	5.7	Y	Absent	SALINITY(28)
L1423827-11L	Amber 500ml H2SO4 preserved	F	<2	5.7	Y	Absent	TPHENOL-420(28)
L1423827-11M	Plastic 1000ml unpreserved	F	7	5.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-12A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-12B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-12C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-12D	Vial H2SO4 preserved	F	N/A	5.7	Y	Absent	TOC-5310(28)
L1423827-12E	Vial H2SO4 preserved	F	N/A	5.7	Y	Absent	TOC-5310(28)
L1423827-12F	Plastic 250ml unpreserved	F	N/A	5.7	Y	Absent	ALK-T-2320(14)
L1423827-12G	Plastic 250ml NaOH preserved	F	>12	5.7	Y	Absent	HOLD-WETCHEM(0)
L1423827-12H	Plastic 250ml HNO3 preserved	F	<2	5.7	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-12I	Plastic 500ml unpreserved	F	7	5.7	Y	Absent	BOD-5210(2)
L1423827-12J	Plastic 500ml H2SO4 preserved	F	<2	5.7	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-12K	Amber 250ml unpreserved	F	7	5.7	Y	Absent	SALINITY(28)
L1423827-12L	Amber 500ml H2SO4 preserved	F	<2	5.7	Y	Absent	TPHENOL-420(28)
L1423827-12M	Plastic 1000ml unpreserved	F	7	5.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-13A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-13B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-13C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-13D	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-13E	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-13F	Plastic 250ml unpreserved	G	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1423827-13G	Plastic 250ml NaOH preserved	G	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1423827-13H	Plastic 250ml HNO3 preserved	G	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-13I	Plastic 500ml unpreserved	G	7	5.2	Y	Absent	BOD-5210(2)
L1423827-13J	Plastic 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-13K	Amber 250ml unpreserved	G	7	5.2	Y	Absent	SALINITY(28)
L1423827-13L	Amber 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TPHENOL-420(28)
L1423827-13M	Plastic 1000ml unpreserved	G	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-14A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-14B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-14C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-14D	Vial H2SO4 preserved	F	N/A	5.7	Y	Absent	TOC-5310(28)
L1423827-14E	Vial H2SO4 preserved	F	N/A	5.7	Y	Absent	TOC-5310(28)
L1423827-14F	Plastic 250ml unpreserved	F	N/A	5.7	Y	Absent	ALK-T-2320(14)
L1423827-14G	Plastic 250ml NaOH preserved	F	>12	5.7	Y	Absent	HOLD-WETCHEM(0)
L1423827-14H	Plastic 250ml HNO3 preserved	F	<2	5.7	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-14I	Plastic 500ml unpreserved	F	7	5.7	Y	Absent	BOD-5210(2)
L1423827-14J	Plastic 500ml H2SO4 preserved	F	<2	5.7	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-14K	Amber 250ml unpreserved	F	7	5.7	Y	Absent	SALINITY(28)
L1423827-14L	Amber 500ml H2SO4 preserved	F	<2	5.7	Y	Absent	TPHENOL-420(28)
L1423827-14M	Plastic 1000ml unpreserved	F	7	5.7	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-15A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-15B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-15C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-15D	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-15E	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-15F	Plastic 250ml unpreserved	G	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1423827-15G	Plastic 250ml NaOH preserved	G	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1423827-15H	Plastic 250ml HNO3 preserved	G	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-15I	Plastic 500ml unpreserved	G	7	5.2	Y	Absent	BOD-5210(2)
L1423827-15J	Plastic 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-15K	Amber 250ml unpreserved	G	7	5.2	Y	Absent	SALINITY(28)
L1423827-15L	Amber 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TPHENOL-420(28)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-15M	Plastic 1000ml unpreserved	G	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-16A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-16B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-16C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-16D	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-16E	Vial H2SO4 preserved	G	N/A	5.2	Y	Absent	TOC-5310(28)
L1423827-16F	Plastic 250ml unpreserved	G	N/A	5.2	Y	Absent	ALK-T-2320(14)
L1423827-16G	Plastic 250ml NaOH preserved	G	>12	5.2	Y	Absent	HOLD-WETCHEM(0)
L1423827-16H	Plastic 250ml HNO3 preserved	G	<2	5.2	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-16I	Plastic 500ml unpreserved	G	7	5.2	Y	Absent	BOD-5210(2)
L1423827-16J	Plastic 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-16K	Amber 250ml unpreserved	G	7	5.2	Y	Absent	SALINITY(28)
L1423827-16L	Amber 500ml H2SO4 preserved	G	<2	5.2	Y	Absent	TPHENOL-420(28)
L1423827-16M	Plastic 1000ml unpreserved	G	7	5.2	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-17A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-17B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-17C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-17D	Vial H2SO4 preserved	D	N/A	4.6	Y	Absent	TOC-5310(28)
L1423827-17E	Vial H2SO4 preserved	D	N/A	4.6	Y	Absent	TOC-5310(28)
L1423827-17F	Plastic 250ml unpreserved	D	N/A	4.6	Y	Absent	ALK-T-2320(14)
L1423827-17G	Plastic 250ml NaOH preserved	D	>12	4.6	Y	Absent	HOLD-WETCHEM(0)
L1423827-17H	Plastic 250ml HNO3 preserved	D	<2	4.6	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-17I	Plastic 500ml unpreserved	D	7	4.6	Y	Absent	BOD-5210(2)
L1423827-17J	Plastic 500ml H2SO4 preserved	D	<2	4.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-17K	Amber 250ml unpreserved	D	7	4.6	Y	Absent	SALINITY(28)
L1423827-17L	Amber 500ml H2SO4 preserved	D	<2	4.6	Y	Absent	TPHENOL-420(28)
L1423827-17M	Plastic 1000ml unpreserved	D	7	4.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-18A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: US SALT-BRINE PONDS
Project Number: 08.8696

Lab Number: L1423827
Report Date: 10/17/14

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1423827-18B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-18C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-18D	Vial H2SO4 preserved	D	N/A	4.6	Y	Absent	TOC-5310(28)
L1423827-18E	Vial H2SO4 preserved	D	N/A	4.6	Y	Absent	TOC-5310(28)
L1423827-18F	Plastic 250ml unpreserved	D	N/A	4.6	Y	Absent	ALK-T-2320(14)
L1423827-18G	Plastic 250ml NaOH preserved	D	>12	4.6	Y	Absent	HOLD-WETCHEM(0)
L1423827-18H	Plastic 250ml HNO3 preserved	D	<2	4.6	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-18I	Plastic 500ml unpreserved	D	7	4.6	Y	Absent	BOD-5210(2)
L1423827-18J	Plastic 500ml H2SO4 preserved	D	<2	4.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-18K	Amber 250ml unpreserved	D	7	4.6	Y	Absent	SALINITY(28)
L1423827-18L	Amber 500ml H2SO4 preserved	D	<2	4.6	Y	Absent	TPHENOL-420(28)
L1423827-18M	Plastic 1000ml unpreserved	D	7	4.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)
L1423827-19A	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-19B	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-19C	Vial HCl preserved	A	N/A	2.6	Y	Absent	NYTCL-8260(14)
L1423827-19D	Vial H2SO4 preserved	D	N/A	4.6	Y	Absent	TOC-5310(28)
L1423827-19E	Vial H2SO4 preserved	D	N/A	4.6	Y	Absent	TOC-5310(28)
L1423827-19F	Plastic 250ml unpreserved	D	N/A	4.6	Y	Absent	ALK-T-2320(14)
L1423827-19G	Plastic 250ml NaOH preserved	D	>12	4.6	Y	Absent	HOLD-WETCHEM(0)
L1423827-19H	Plastic 250ml HNO3 preserved	D	<2	4.6	Y	Absent	FE-6020T(180),K-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),CD-6020T(180),MG-TI(180),CA-TI(180),HARDT(180)
L1423827-19I	Plastic 500ml unpreserved	D	7	4.6	Y	Absent	BOD-5210(2)
L1423827-19J	Plastic 500ml H2SO4 preserved	D	<2	4.6	Y	Absent	TKN-351(28),COD-410-LOW(28),NH3-350(28)
L1423827-19K	Amber 250ml unpreserved	D	7	4.6	Y	Absent	SALINITY(28)
L1423827-19L	Amber 500ml H2SO4 preserved	D	<2	4.6	Y	Absent	TPHENOL-420(28)
L1423827-19M	Plastic 1000ml unpreserved	D	7	4.6	Y	Absent	SO4-300(28),CL-300(28),BR-300(28),NO3-353(2),TDS-2540(7)

*Values in parentheses indicate holding time in days

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: DU Report with 'J' Qualifiers

Project Name:	US SALT-BRINE PONDS	**Lab Number:**	L1423827
Project Number:	08.8696	**Report Date:**	10/17/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: US SALT-BRINE PONDS **Lab Number:** L1423827
Project Number: 08.8696 **Report Date:** 10/17/14

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

4 Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

44 Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE_____ OF _____

Date Rec'd in Lab: 10/9/14

ALPHA Job #: L1423527

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: CT Male Associates
Address: 50 Century Hill Dr Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: s.bieber@ctmale.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt-Brine Ponds
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Moline
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: ~~10/15/14~~ 10/16/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Baseline Parameters	VOCs	Salinity								Sample Specific Comments	Total # Bottles
23827.1	MW-50	10/8/14	0930	W	SB	✓	✓	✓									13
.2	MW-49		1010	W	SB	✓	✓	✓									13
.3	MW-22		1050	W	SB	✓	✓	✓									13
.4	MW-23		1140	W	SB	✓	✓	✓									13
.5	MW-44		1210	W	SB	✓	✓	✓									13
.6	MW-45		1310	W	SB	✓	✓	✓									13
.7	Dup East			W	SB	✓	✓	✓									13
.8	MW-43		1405	W	SB	✓	✓	✓									13
.9	Eq. Blank East		1445	W	SB	✓	✓	✓									13
.10	WL-East		1620	W	SB		✓										3

Container Type	O	V	A
Preservative	O	B	A

SAMPLE HANDLING
*Filtration*_____
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/8/14 1625	[signature] KAL	10/8/14 1625
[signature]	10/8/14 2144	[signature]	10/8/14 2144
[signature]	10/9/14 00:24	[signature]	10/9/14 00:24

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

CHAIN OF CUSTODY

PAGE_____ OF _____

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/9/14

ALPHA Job #: L1427627

Client Information

Client: CT Male Associates
Address: 50 Century Hill Drive, Latham, NY 12110
Phone: 518-786-7400
Fax: 518-786-7299
Email: S. Bieber@ctmale.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: US Salt - Brine Ponds
Project Location: Reading, NY
Project #: 08.8696
Project Manager: Kirk Milne
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10/15/14 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #: 08.8696

Regulatory Requirements/Report Limits

State /Fed Program	Criteria

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Part 360 Routine Parameters			VOC	Salinity							Sample Specific Comments	Total # Bottles
23527-11	MW-58	10/8/14	0930	GW	JD	X			X	X								13
12	MW-27		1000		JD	X			X	X								13
13	MW-36		1045		JD	X			X	X								13
14	MW-57		1105		JD	X			X	X								13
15	MW-55		1200		JD	X			X	X								13
16	MW-37		1230		JD	X			X	X								13
17	MW-56A		1440		JD	X			X	X								13
18	FDWEST		1400		JD	X			X	X								13
19	MW-28		1515		JD	X			X	X								13
					Container Type	O			V	A								
					Preservative	O			B	A								

SAMPLE HANDLING
Filtration_____
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/8/14 1625	[signature]	10/8/14 1625
[signature]	10/8/14 2144	[signature]	10/8/14 2144
[signature]	10/9/14 00:24	[signature]	10/8/14 00:24

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 14-OCT-07)

EXHIBIT 1

Alpha Laboratory Quality Assurance Manual

Quality Systems Manual

Alpha Analytical, Inc.

D/B/A

Alpha Analytical
Eight Walkup Drive
Westborough, MA 01581-1019
Telephone: (508) 898-9220
Facsimile: (508) 898-9193

Alpha Analytical
Woods Hole Labs Facility
320 Forbes Blvd
Mansfield, MA 02048
Telephone: (508) 822-9300
Facsimile: (508) 822-3288

Email: info@alphalab.com
Web site: www.alphalab.com

President: Mark Woelfel, 508-439-5115
Quality Assurance Officer: James Todaro, Ext 508-439-5101
Laboratory Technical Manager (Director) Westboro: Christopher Wakefield, 508-439-5124
Laboratory Technical Manager (Director) Mansfield: Joseph Watkins, 508-844-4125
Laboratory Technical Manager (Director) Air-Mansfield: Andy Rezendes, 508-844-4181

1 Mission Statement

The mission of Alpha Analytical is quite simply to provide our customers with the greatest value in analytical service available. For the 'greatest value' is not only found in the data that is delivered, it is also found in the services provided.

- Data must be of the highest integrity, accuracy and precision.
- Consultation and educational services must be provided to support the customer in establishing data quality objectives and interpretation of the final data package.
- Support services such as sample containers, courier service and electronic data deliverables must be available to the customer.

Alpha's mission continues with an established commitment to our community and environment. We must ensure that we do not produce any additional contamination to our environment or harm our neighbors and community in any way.

The value of Alpha's product is in the honesty and integrity with which each chemist, courier, login staff member, or office staff member performs their tasks. The customer or employee must always feel satisfied that they received the greatest value in their lab experience at Alpha.

Alpha Analytical will vigorously pursue its mission into the next millennium.

Mark Woelfel

President

2 Table of Contents

Section Description Page

1 MISSION STATEMENT 2

2 TABLE OF CONTENTS 3

3 INTRODUCTION 6

3.1 SCOPE 6
3.2 POLICY STATEMENT 6
3.3 REFERENCES 8
3.4 DEFINITIONS 8

4 ORGANIZATION AND MANAGEMENT 9

4.1 LEGAL DEFINITION OF LABORATORY 9
4.2 ORGANIZATION 9
4.3 BUSINESS PRACTICES 11

5 QUALITY SYSTEM 11

5.1 ESTABLISHMENT 11
5.2 QUALITY SYSTEMS MANUAL 11
5.3 AUDITS 12
5.4 AUDIT REVIEW 12
5.5 PERFORMANCE AUDITS 13
5.6 CORRECTIVE ACTIONS/PREVENTATIVE ACTIONS (CAPA) 13
5.7 MANAGERIAL REVIEW 13
5.8 ESSENTIAL QUALITY CONTROL PROCEDURES 13
5.9 DATA REDUCTION 15
5.10 DOCUMENT CONTROL 18
5.11 DETECTION LIMITS 19
5.12 LOD/LOQ STUDIES 19
5.13 RANGE OF LOGS PRECISION OF QUANTITATIVE METHODS - MICROBIOLOGY 20

6 PERSONNEL 21

6.1 LABORATORY MANAGEMENT RESPONSIBILITIES 21
6.2 LABORATORY STAFF REQUIREMENTS 21
6.3 TRAINING 22
6.4 RECORDS 22

7 PHYSICAL FACILITIES – ACCOMMODATION AND ENVIRONMENT 24

7.1 ENVIRONMENT 24
7.2 WORK AREAS 25
7.3 SECURITY 25

8 EQUIPMENT AND REFERENCE MATERIALS 26

8.1 MAINTENANCE 26
8.1.1 Microbiology General Equipment Maintenance 27
8.2 EQUIPMENT LISTING 27
8.3 LABORATORY WATER 27

8.4 REFERENCE MATERIALS 28

9 MEASUREMENT TRACEABILITY AND CALIBRATION 29

9.1 GENERAL REQUIREMENTS 29
9.2 TRACEABILITY OF CALIBRATION 29
9.3 REFERENCE STANDARDS AND MATERIALS 29
9.4 CALIBRATION GENERAL REQUIREMENTS 29
9.5 EQUIPMENT CALIBRATION 30
9.5.1 Gas Chromatography/Mass Spectrometry (GC/MS) 30
9.5.2 Gas Chromatography (GC) 30
9.5.3 Cold Vapor Atomic Absorption Spectrophotometry (CVAA) 31
9.5.4 Inductively Coupled Plasma Emission Spectrophotometry-Mass Spectrometry (ICP-MS) 31
9.5.5 Inductively Coupled Plasma Emission Spectrophotometry (ICP) 31
9.5.6 Thermometers 31
9.5.7 Balances 32
9.5.8 Mechanical volumetric pipettes 32
9.5.9 Ion Chromatography 32
9.5.10 pH Meters 32
9.5.11 Conductivity Meters 32
9.5.12 Autoclave 33

10 TEST METHODS AND STANDARD OPERATING PROCEDURES 34

10.1 METHODS DOCUMENTATION 34
10.2 STANDARD OPERATING PROCEDURES (SOPS) 35
10.3 LABORATORY METHOD MANUAL (S) 35
10.4 TEST METHODS 35
10.5 METHOD VALIDATION/INITIAL DEMONSTRATION OF METHOD PERFORMANCE 36
10.6 SAMPLE ALIQUOTS 36
10.7 DATA VERIFICATION 36
10.8 LABELING OF STANDARDS AND REAGENTS 36
10.9 COMPUTERS AND ELECTRONIC DATA RELATED REQUIREMENTS 37

11 SAMPLE HANDLING, SAMPLE ACCEPTANCE POLICY AND SAMPLE RECEIPT 38

11.1 SAMPLING SUPPLIES 38
11.1.1 Sample Containers 38
11.1.2 Chain of Custody 38
11.1.3 Reagent Water 38
11.2 SAMPLE TRACKING 38
11.3 SAMPLE ACCEPTANCE POLICY 40
11.4 SAMPLE RECEIPT PROTOCOLS 40
11.5 STORAGE CONDITIONS 40
11.6 SAMPLE DISPOSAL 41

12 RECORDS 42

12.1 RECORD KEEPING SYSTEM AND DESIGN 42
12.2 RECORDS MANAGEMENT AND STORAGE 42
12.3 LABORATORY SAMPLE TRACKING 43

13 LABORATORY REPORT FORMAT AND CONTENTS 45

13.1 DATA QUALIFIERS 46

14 OUTSIDE SUPPORT SERVICES AND SUPPLIES 49

14.1 SUBCONTRACTING ANALYTICAL SAMPLES 49

15 CUSTOMER RELATIONS 50

15.1 CUSTOMER SERVICE 50
15.2 PROJECT MANAGEMENT 50
15.3 COMPLAINT PROCESSING 50

16 APPENDIX A – DEFINITIONS/REFERENCES 51

17 APPENDIX B – ORGANIZATION CHARTS 67

UPDATED 10/29/2013 67
UPDATED 10/29/2013 68
UPDATED 10/29/2013 70
UPDATED 10/29/2013 ..... ERROR! BOOKMARK NOT DEFINED.

18 APPENDIX C – LIST OF KEY PERSONNEL 71

19 APPENDIX D – PREVENTIVE MAINTENANCE PROCEDURES 72

20 APPENDIX E – LIST OF ANALYTICAL METHODS 73

21 APPENDIX F – ALPHA CODE OF ETHICS AGREEMENT 80

22 APPENDIX G – FLOOR PLAN WESTBORO FACILITY 82

23 APPENDIX H– FLOOR PLAN MANSFIELD FACILITY 83

24 APPENDIX I – JOB TITLES AND REQUIREMENTS 84

25 APPENDIX J – STANDARD OPERATING PROCEDURES 88

3 Introduction

The Quality Systems Manual, referred to as Corporate Quality Systems Manual (CQSM) of Alpha Analytical describes the quality program in use at the laboratory for both Westboro and Mansfield facilities. This Quality Systems Manual provides employees, customers and accrediting agencies with the necessary information to become familiar with how the quality system operates within Alpha Analytical. The quality program includes quality assurance, quality control, and the laboratory systems including feedback mechanisms for the automated continuous improvement of the laboratory operations to meet customer needs.

Implementation of the laboratory operations is by documenting procedures, training personnel and reviewing operations for improvement. Written procedures are maintained as Standard Operating Procedures (SOPs). The SOPs are available to the staff as an uncontrolled, electronic, secure copy. The provisions of the QSM are binding on all temporary and permanent personnel assigned responsibilities. All laboratory personnel must adhere strictly to the QSM and SOPs.

All policies and procedures have been structured in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) 2009 TNI standards, applicable EPA requirements, and applicable Department of Defense (DOD) Quality Systems Manual, standards.

Twenty-five (25) sections comprise the QSM. Related quality documentation including the listing of SOPs, forms, floor plan, equipment, personnel and laboratory qualifications are available. The QSM sections provide overview descriptions of objectives, policies, services and operations.

3.1 Scope

The QSM describes the requirements of the Laboratory to demonstrate competency in the operations for performing environmental tests for inorganic, organic, air and microbiological testing. The basis for the environmental tests is the methods found in documents published by the United States Environmental Protection Agency (EPA), ASTM, AOAC, APHA/AWWA/WEF, Standard Methods, DOD-QSM, and other procedures and techniques supplied by customers.

The QSM includes requirements and information for assessing competence and determining compliance by the laboratory to the quality system. When more stringent standards or requirements are included in a mandated test method, by regulation, or specified in a project plan the laboratory demonstrates achievement of the customer specified requirements through its documented processes.

The QSM is for use by Alpha Analytical for developing and implementing the quality system. Accrediting authorities and customers use the QSM for assessing the competence of Alpha Analytical. Alpha Analytical is committed to continually improving the quality system. Meeting customer needs, operating within regulatory requirements and adhering to Alpha's Data Integrity and Ethics policy are several of the mechanism used to continually improve the quality system.

3.2 Policy Statement

This Quality Systems Manual summarizes the policies, responsibilities and operational procedures associated with Alpha Analytical. This manual applies to all associates of the laboratory and is intended for use in the on-going operations at Alpha Analytical. Specific protocols for sample handling and storage, chain-of-custody, laboratory analyses, data reduction, corrective action, and reporting are described. All policies and procedures have been structured in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) TNI 2009 standards, applicable EPA requirements regulations, guidance, and technical

standards and current DOD QSM standards. This Quality Systems Manual, laboratory Standard Operating Procedures (SOPs). and related documentation describe the quality systems, policies and procedures for Alpha Analytical.

Alpha Analytical performs chemical analyses for inorganic and organic constituents in water, seawater, soil, sediment. oil. tissue and air matrices. Alpha Analytical's goal is to produce data that is scientifically valid. technically defensible, and of known and documented quality in accordance with standards developed by NELAC and any applicable state or EPA regulations or requirements. It is the commitment of the President, Operations Director, Laboratory Technical Manager and Quality Assurance Officer to work towards continuous improvement of the operation, and towards meeting our customer's needs, requirements, and intended data usage. This continued commitment is built into every activity of the laboratory. It is the responsibility of Senior Management and the Department Managers to ensure that all associates familiarize themselves with, and comply at all times with, the quality systems, procedures and policies set forth in this manual. laboratory SOPs, and related documentation.

Alpha Analytical analyzes Proficiency Test (PT) samples. in accordance with NELAC and other regulatory programs. from a National Institute of Standards and Technology (NIST)-approved PT provider for the analytes established by EPA for water samples, and for other analytes and matrices. The specific analytes and matrices analyzed are based on the current scope of the laboratory services as documented in the laboratory SOPs and state certifications.

The technical and service requirements of all requests to provide analyses are thoroughly evaluated before commitments are made to accept the work. This includes a review of facilities and instrumentation, staffing, and any special QC or reporting requirements to ensure that analyses can be performed correctly and within the expected schedule. All measurements are made using published reference methods or methods developed by Alpha Analytical. Competence with all methods is demonstrated according to the procedure described in SOP/ 1739 prior to use.

Alpha Analytical has developed a proactive program for prevention and detection of improper, unethical or illegal actions. Components of this program include: internal proficiency testing, electronic data audits and post-analysis data review by the QA Officer; a program to improve employee vigilance and co-monitoring; and Ethics Training program identifying appropriate and inappropriate laboratory practices, instrument manipulation practices and consequences. Additionally. all associates are required to sign the Alpha Analytical *Ethics Agreement* form upon commencement of employment and each year following. This form clearly outlines the possible consequences of unethical or improper behavior, or data misrepresentation.

It is the policy of the laboratory to discourage and reject all influence or inducements (whether commercial, financial or personal) offered either by customers or suppliers, which might adversely affect results or otherwise compromise the judgment or impartiality of the staff It is the responsibility of the Operations Director and Laboratory Technical Manager to inform customers and suppliers of this policy when necessary.

> In the event that any such influences or inducements are encountered, the staff is instructed to inform management immediately. It is the responsibility of the Operations Director and the Laboratory Technical Manager to take appropriate action to prevent recurrence.

3.3 References

External reference documents are available electronically in the Qualtrax system for staff to access the latest edition or version of the reference methods, regulations or national standards. The Quality Assurance Department maintains the electronic files in the Qualtrax system. Management purchases automated update services, where available, to provide the laboratory with the latest hardcopy edition, where electronic means is not available.

3.4 Definitions

Appendix A lists the definitions as adopted by the laboratory. The definitions are from the 2009 TNI and DoD QSM standards.

4 Organization and Management

4.1 Legal Definition of Laboratory

Alpha Analytical is a full service analytical laboratory. Testing services include Drinking Water, Waste Water, Ground Water, Waste material and Air. Alpha Analytical is a privately held corporation incorporated in the state of Massachusetts. Alpha Analytical, Inc. does business as (D/B/A) Alpha Analytical.

Alpha Analytical has been in business since 1985. The types of businesses served include:

Consulting firms,
Engineering firms,
Waste Management Companies,
Industrial sites,
Municipal agencies
Department of Defense projects.

4.2 Organization

The laboratory operates a quality system approach to management in order to produce data of known quality. The laboratory organization provides effective communication and lines of authority to produce analytical data meeting customer specifications. The organizational design provides open communication while ensuring that pressures and day to day operating circumstances do not compromise the integrity of the reporting of the final data.

The President is responsible for directing all areas of the company. The following job functions report to the President:

Operations Manager
Quality Assurance Officer
Customer Services Manager
Marketing / Business Development / Sales
Financial Services
Human Resources

The Operations Manager is responsible for directing all laboratory operational areas of the company. The following job functions report to the Operations Manager:

- Laboratory Technical Manager(s)
- Department Managers

The Laboratory Technical Manager(s) is(are) responsible for the laboratory data generated by the organics testing, inorganics testing and metals testing areas and the Air Technical Director is responsible for laboratory data generated by air analyses.

The Departmental Managers (Supervisors) have the following responsibilities:

The organics managers direct personnel in the organics extraction and instrumental laboratories.

The wet chemistry manager directs personnel and team leaders in the wet chemistry and/or microbiological testing areas.

The metals manager directs personnel and team leaders in the metals sample preparation and instrumental laboratories.

The Quality Assurance Officer is a member of the staff and reports directly to the President and has defined responsibility and authority for ensuring that the quality system is implemented and adhered to at all times. The Quality Assurance (QA) Officer is responsible for interacting and communicating certification requirements, implementing the Quality Systems Manual and reporting to the Laboratory Technical Manager and Senior Management the status of the quality program. The QAO oversees the Quality Systems Specialists and is responsible for oversight and/or review of quality control data and function independently from laboratory operations.

The Customer Services Manager is responsible for customer interactions, project coordination and laboratory personnel notification of project requirements.

The Marketing, Business Development and Sales personnel are responsible for increasing the volume of work from current customers and adding new customers to the base business of Alpha Analytical. The Marketing and Business Development personnel review all new work with the Laboratory Technical Manager, Operations Manager, President and/or Quality Assurance Officer before contractual commitment.

The Controller is responsible for maintaining and reporting on the financial status of the company. The Controller directs financial personnel on proper accounting procedures and maintaining the list of approved suppliers and subcontractors. The Controller reports directly to the President.

The Human Resource Director is responsible for personnel recruitment, hiring, performance reviews.

Personnel job descriptions define the operational function duties and responsibilities. Administration and Laboratory personnel assignments may include cross-functional training and work performance in multiple areas of the operations. Multiple function training ensures laboratory back up personnel during peak workloads.

During the absence of any staff member, assignment of alternative personnel occurs by memo or e-mail. The Manager or Supervisor authorizes the assignment. The naming of alternative personnel assures the continuing performance of critical tasks during the primary person's absence and ensures that lines of communication remain open for continued decision making. The deputy for the Laboratory Technical Manager is the Quality Assurance (QA) Officer. The deputies for the Quality Assurance (QA) Officer are the Quality Systems Specialists.

For the purposes of NELAC and DoD QSM Accreditation, the Lead Laboratory Technical Manager is the Laboratory Technical Manager. The deputies for the Lead Technical Manager are the Quality Assurance (QA) Officer, and the Departmental Managers. The Laboratory Technical Manager meets the requirements specified in the Section 4.1.7.2 Volume 1, Module 2 of the 2009 TNI standards. If the Laboratory Technical Manager is absent for a period of time exceeding 15 consecutive calendar days, a full-time staff member meeting the qualifications of Laboratory Technical Manager will be designated to temporarily perform this function. The primary Accrediting Body shall be notified in writing if the Technical Manager's absence exceeds 35 consecutive calendar days.

4.3 Business Practices

Alpha maintains certification for the programs and analytes required by regulatory programs. The listing of qualifications from the various certifications, registrations and accreditation programs are available upon request. Alpha Analytical operates Monday to Friday from 7:30 a.m. to 5:30 p.m. Management prepares and posts the holiday schedule for the year indicating closed operations. Sample delivery occurs during normal operating hours unless arranged in advance.

Alpha's reputation depends upon timely reporting and quality data. The standard turnaround time for engineering and consulting firms is five business days from time of sample receipt. Standard turnaround for all other customers is ten business days from time of sample receipt. The time of sample receipt is when the verification of the chain of custody and samples meets the laboratory sample acceptance policy. Laboratory management must approve any special arrangements for rush or expedited turnaround time. The basis for data quality depends on customer, regulation and method performance criteria. Accuracy, precision, sensitivity and comparability are expressions of method performance criteria.

All work is performed in the strictest confidence. New and contract employees must review corporate policy and practice requirements for protecting customer confidentiality and proprietary rights. The review occurs during orientation and ethics training. It is the policy of the laboratory to release data to the customer authorized contact. Personnel assigned the duties of interacting with customers review project files and discuss data related only to the project. Personnel whose duties do not include routine customer contact must check with the customer service manager before discussing data with regulators or third parties

5 Quality System

Establishment, Audits, Essential Quality Controls and Data Verification

5.1 Establishment

The Mission Statement presents the policy and objectives for Alpha Analytical. The Quality Systems Manual provides the framework for the processes and operations to implement the Mission. The Quality Systems Manual and documentation controlled by the laboratory system detail the management authorized operations for achieving the objectives of the company.

The laboratory operates a quality system approach to management in order to produce data of known quality. Alpha Analytical is a full service laboratory designed to provide its customers with accurate, precise and reliable data within the best turn-around time and at the most reasonable prices. Alpha employs chemists of the highest training, ethics and caliber in the field of analytical chemistry. This and state-of-the-art instrumentation and automation combine to insure data of known and documented quality.

5.2 Quality Systems Manual

The QA Officer is responsible for the publication and distribution of the Quality Systems Manual. Management reviews and authorizes the manual. Implementation of major changes in the quality system occurs after revision of the appropriate Quality Systems Manual section and authorization by management.

The authorization of the Quality Systems Manual is documented electronically in Qualtrax. Updates of this manual occur at any time throughout the year. Document control procedures (SOP1729) apply to the distribution of the Quality Systems Manual. Controlled copies of the manual are maintained electronically within Qualtrax. Persons or organizations outside of Alpha

Analytical may receive uncontrolled copies. Copies are distinctly indicated "Uncontrolled Documents" within the footer of each page.

5.3 Audits

Laboratory audits, both internal and external, review and examine the operations performed in the laboratory. Internal audits are conducted by qualified QA Specialists and external audits are reviews by external organizations to evaluate the ability of the laboratory to meet regulatory or project requirements.

A QA designee schedules internal process audits to ensure the completion of the annual audit of each operational area. The process audits are a more detailed review of the operations. Personnel from areas other than the one audited perform process audits.

The internal system audit is a review of the implementation of the documented quality system. The system audit includes sample tracking from receipt to disposal, a data audit of a completed report, and all operations not audited during the process audit.

The purpose of the internal system audit is:

- Verification that adequate written instructions are available for use;
- Analytical practices performed in the laboratory are consistent with SOPs;
- The quality control practices are applied during production;
- Corrective actions are applied as necessary;
- Deviations from approved protocols are occurring only with proper authorization and documentation;
- Reported data is correct and acceptable for reporting;
- SOPs, quality records, analytical records, electronic data files are maintained properly; and
- Personnel training files and records are satisfactory and current.

Before a scheduled internal audit, the assigned auditor reviews checklists, if used, and/or the SOP specific to the area. The checklist may be from an external source or prepared by the auditor. . After the audit, the auditor submits a summary or notes from the audit to the Laboratory Technical Manager or QAO as part of the audit report. The summary identifies discrepancies found during the audit. Technical personnel are responsible for the inspection and monitoring of in-process and final data. Personnel independent of those having direct responsibility for the work performed audit the quality system and processes.

Representatives sent by customers and government or accrediting agencies often perform external audits. These audits are most often announced inspections, but sometimes are not announced. The Quality Assurance Officer, Laboratory Technical Manager or assigned deputy, and/or appropriate Department Manager accompany the external audit team through the laboratory. The auditors receive a brief overview of company objectives, activities, and facilities. Interviews with essential supervisory staff and technical staff are arranged, along with retrieval of any documentation pertinent to the audit. Auditors usually provide a report on their findings shortly after the audit. The OA Officer receives the audit report and copies are provided to laboratory personnel for review. Corrective actions are identified and distributed to responsible parties for implementation in response to any cited deficiencies.

5.4 Audit Review

Management reviews internal and external audit reports to evaluate system effectiveness at the annual management review meeting. Tracking of the audit findings occurs through the

nonconformance action process. The management and staff work together to establish a time line for resolving the audit findings. The Quality Assurance team tracks the time line and reports to the Laboratory Technical Manager on any outstanding audit findings.

5.5 Performance Audits

Alpha Analytical participates in inter-laboratory comparisons and proficiency test programs required by customers and certifying agencies. The performance audits provide information on the data comparability of results generated by the laboratory. Test samples received by the laboratory are handled following routine laboratory procedures. Proficiency test samples are unpacked, checked against the packing slip and examined for damage. Reporting requirements and deviations to routine practices are noted as would be required for any project.

Analysts demonstrate proficiency by analyzing either an external proficiency test sample, an internally prepared blind test sample or Initial Demonstration of Capability (IDC) before independent operation of a test method. The results of performance audits serve several purposes. The QA Officer may use performance audits for evaluating analyst proficiency, laboratory performance in a specified area to facilitate laboratory improvement efforts, and/or to provide information to an accrediting agency on correction of past performance of an external performance audit.

5.6 Corrective Actions/Preventative Actions (CAPA)

The corrective action process at Alpha Analytical is detailed in SOP 1736. The corrective action program at Alpha Analytical uses the Nonconformance workflow in Qualtrax to document and follow through the corrective action/preventative action process for three main areas: nonconformance's within the laboratory, customer complaints and failed PT studies. The process ensures continuous improvement of company performance by preventing the recurrence of quality problems.

Nonconformance reports are tracked for closure date and the type. Reports to management include the listing of open nonconformance reports and the frequency of the type of nonconformance occurring. A QA designee monitors the completeness of the forms, as well as verifies the actions are complete and acceptable.

Customers will be notified within 5 days of any question(s) regarding validity of results.

5.7 Managerial Review

The management review occurs at least once per year as part of the strategic planning process. Documentation of the management review meeting is by recording the meeting minutes and listing the attendees. The focus of the quality management review is the frequency of the type of nonconformance, closure status, audit progress and other quality assurance actions. Meetings include discussion and progress on quality system initiatives since the last meeting.

Prior to the meeting, an agenda is distributed to all personnel expected to be in attendance. The meeting is chaired by the President. Minutes are taken and distributed at the conclusion of the meeting by a QA designee. If action is necessary on any issue, a Summary Report is generated and distributed to responsible parties for implementation. Actions are monitored by the QAO or designee until completion.

5.8 Essential Quality Control Procedures

The following general quality control principles apply to all tests. The manner implemented is dependent on the type of test performed. The laboratory SOP presents the specific quality control checks undertaken to ensure precision, accuracy and sensitivity of each test method.

Alpha Analytical uses quality control samples to evaluate the following:

1. Adequate positive and negative controls to monitor blanks, spikes, reference toxicants, zero blanks;
2. Adequate tests to define the variability and/or reproducibility of laboratory results.
3. Measures to ensure the accuracy of the test data including sufficient calibration and/or continuing calibrations, use of certified reference materials, proficiency test samples;
4. Measures to evaluate test performance, such as detection limits and quantitation limits or range of applicability such as linearity;
5. Selection of appropriate formulae to reduce raw data to final results such as linear regression, internal standards, or statistical packages;
6. Selection and use of reagents and standards of appropriate quality;
7. Measures to assure the selectivity of the test for its intended purpose;
8. Measures to assure constant and consistent test conditions for the method such as temperature, humidity, light, or specific instrument conditions.

All quality control measures are assessed and evaluated on an on-going basis, and quality control acceptance limits are used to determine the usability of the data. Control charts and/or calculated control limits monitor the long-term method performance by analyte, by instrument for water matrices. Routine evaluation and reporting of the control chart performance provides supervisors and management with additional performance measures to ensure data comparability. Control limits are recalculated when trends are observed.

Where no reference method or regulatory criteria exist, the laboratory specifies the acceptance/rejection criteria in the SOP. The test SOP specifies the QC samples performed per batch of samples. The quality control samples are categorized into the following, as appropriate to the method

- Method Blank
- Laboratory Duplicate
- Laboratory Control Sample (LCS)
- Laboratory Control Sample Duplicate (LCSD)
- Matrix Spike (MS)
- Matrix Spike Duplicate (MSD)

Selection of samples for Duplicate, Matrix Spike (MS) & Matrix Spike Duplicate (MSD)

2. Duplicate samples
   a. Samples will be selected if identified and requested by customer
   b. If no samples are identified by the customer then random samples will be analyzed within the batch as defined by the method, program or at a minimum batch of 20 samples.

3. Matrix Spike (MS) / Matrix Spike Duplicate (MSD) samples
   a. Samples will be selected if identified and requested by customer

b. If no samples are identified by the customer then random samples will be selected and analyzed within the batch as defined by the method, program or at a minimum batch of 20 samples.

c. If MS/MSD is not required, LCS/LCSD may be substituted for precision and accuracy evaluation.

The frequency is dependent on the reference method and test protocol. The following is the default requirement for quality control checks in lieu of any other guidance. The frequency for each quality control sample is generally one (1) per every 20 samples.

5.9 Data Reduction

After completion of the test procedure, the data reduction process begins.

Chromatography data may require the manual integration of peak areas or heights before reporting of results. The analyst must perform manual integration when software does not properly integrate or identify the peak. Manual integration must not occur for the purpose of achieving acceptable quality control or calibration. The analyst and reviewer sign and date the hardcopy of all manual integration. The analyst notes the rationale for performing the manual integration on the hardcopy printout and ensures the "TIC" marks from the software represent the integration area used for reporting the results. The analyst must minimize and avoid manual integration. The establishment of the proper integration parameters in the software reduces the number of manual integration occurrences.

The SOP for each test presents the formulas used for the specific test method. The formulas for the data calculations used throughout the laboratory are the following:

% Recovery (LCS)

$$\frac{MV}{TV} * 100 = \%R_{LCS}$$

where: MV = Measured Value
TV = True Value

% Recovery (MS or MSD)

$$\frac{MV - SV}{TV} * 100 = \%R_{MS}$$

where: MV = Measured Value
TV = True Value
SV = Amount found in sample

Average ($\bar{X}$)

$$\sum_{i=1}^{n} X_i \Big/ n = \bar{X}$$

where: $\bar{X}$ = Average of all values
X = Result of each measurement
n = Number of values

Relative Percent Difference (% RPD)

$$\frac{R_1 - R_2}{\frac{(R_1 + R_2)}{2}} * 100 = \%RPD$$

where: R_1 = Larger of two observed values
R_2 = Smaller of two observed values

% Difference (%D)

$$\frac{X - \overline{X}}{\overline{X}} * 100 = \%D$$

where: $\overline{X}$ = Average of all values
X = Result of measurement

Standard Deviation of the sample (S_x)

$$\sqrt{\frac{\sum (X - \overline{X})^2}{n - 1}} = S_x$$

where: $\overline{X}$ = Average of all values
X = Result of each measurement
n = Number of values

Relative Standard Deviation (%RSD)

$$\frac{S_x}{\overline{X}} * 100 = \%RSD$$

where: $\overline{X}$ = Average of all values
Sx = Standard Deviation (n - 1)

Range of Logs (for microbiological enumeration analysis)

10% of routine samples are analyzed in duplicate and the range of logs is determined.

MDL (See 40CFR Part 136 for details)

$$\left| \sqrt{\frac{\sum_{i=1}^{n} x_i^2 - \left(\sum_{i=1}^{n} x_i\right)^2 / n}{n-1}} \right| * t_{(n-1,.99)} = MDL$$

where: *MDL* = The method detection limit
X = Result of each measurement
n = Number of values
t(n-1,1 = .99) = The students' T value appropriate for a 99% confidence level and a standard deviation estimate with n-1 degrees of freedom. (See Students t Test Table)

Reporting Limit (RL)

Lowest calibration standard or greater

Control Limits

Upper Control Limit: $\overline{X} + 3 * S_x = UCL$
Lower Control Limit: $\overline{X} - 3 * S_x = LCL$

Warning Limits

Upper Warning Limit: $\overline{X} + 2 * S_x = UWL$
Lower Warning Limit: $\overline{X} - 2 * S_x = UWL$

Method of Standard Additions (MSA): (See EPA 7000A for details)

The simplest version of this technique is the single-addition method, in which two identical aliquots of the sample solution, each of volume Vx, are taken. To the first (labeled A) is added a known volume Vs of a standard analyte solution of concentration Cs. To the second aliquot (labeled B) is added the same volume Vs of the solvent. The analytical signals of A and B are measured and corrected for non-analyte signals. The unknown sample concentration Cx is calculated

$$C_x = \frac{SB\ V_S\ C_s}{(SA - SB)\ V_x}$$

where SA and SB are the analytical signals (corrected for the blank) of solutions A and B, respectively. V_S and C_s should be chosen so that SA is roughly twice SB on the average, avoiding excess dilution of the sample. If a separation or concentration step is used, the additions are best made first and carried through the entire procedure.

Improved results can be obtained by employing a series of standard additions. To equal volumes of the sample are added a series of standard solutions containing different known quantities of the analyte, and all solutions are diluted to the same final volume.

For example, addition 1 should be prepared so that the resulting concentration is approximately 50 percent of the expected absorbance from the endogenous analyte in the sample. Additions 2 and 3 should be prepared so that the concentrations are approximately 100 and 150 percent of the expected endogenous sample absorbance.

The absorbance of each solution is determined and then plotted on the vertical axis of a graph, with the concentrations of the known standards plotted on the horizontal axis. When the resulting line is extrapolated to zero absorbance, the point of interception of the abscissa is the endogenous concentration of the analyte in the sample. The abscissa on the left of the ordinate is scaled the same as on the right side, but in the opposite direction from the ordinate. A linear regression program may be used to obtain the intercept concentration.

5.10 Document Control

The Document Control Procedure (SOP/1729) describes the process for controlled and uncontrolled documents. The use of the revision number allows for the retention of a previous document for historical information purposes.

Every document is assigned a unique identification number, which is present on each page of the document. A master list of documents includes the unique identification. Each controlled copy includes the revision number, published date and page number.

Full document control includes the status of each document: active, inactive or superseded/archived. Inactive documents are procedures not currently requested, but may be in the future. Archived documents are procedures replaced with a later revision. Authorized personnel must review and approve each document and any subsequent revisions before use in the laboratory. Personnel authorized to review and approve a document have access to all necessary information on which to base their review and approval. The history section of the document in Qualtrax includes a description of the nature of the document change.

Standard Operating Procedures (SOPs) are instructions for repetitive or standard operations performed by the laboratory. The SOP author is the person familiar with the topic. The standard format for writing SOPs is set-up as a template for administration and technical SOPs. Each SOP is peer reviewed, authorized by management, and QA before final publication and implementation. Authorized signatories for controlled documentation include one or more of the following personnel. Company President, Quality Assurance Officer, Laboratory Technical Manager, Department Manager, Department Team Leader. Personnel acknowledge approved documents as read, understood and agreed to through electronic attestation forms associated with each document as SOP Attestation Tests which reside in Qualtrax.

SOPs must receive evaluation and input by laboratory supervisors and key technical personnel. The content of each SOP must conform to applicable requirements of analytical methods and certification agencies. Within these constraints, the content of a SOP meets the needs of a particular area of the laboratory. A new or revised SOP is needed when regulatory programs update or add methods, the scope of the existing method is extended, or when activities are being performed without adequate documentation.

Updating, modifying and changing SOPs, forms and the contents of this QSM are prompt and part of the routine practices. The prompt modification of these documents ensures the documents reflect the current practices and operations of the laboratory. During annual review of a document, (including but not limited to: SOPs, Ethics Policy, Quality Systems Manual), requested changes are reviewed and the document reissued using the information and a new revision number is assigned and published in Qualtrax.

The laboratory maintains control over the possession and distribution of all documents that directly affect the quality of data. This includes, but is not limited to, documents such as the Quality Systems Manual, Standard Operating Procedures, customer instructions, Laboratory Work Instructions, data sheets, check lists and forms.

5.11 Detection Limits

Detection Limits (DLs), previously referred to as Method Detection Limits (MDLs), are determined for all analytes as specified in the NELAC TNI 2009 standards and DoD QSM standards. DLs are determined for all new instrumentation, whenever there is a change in the test method or instrumentation that affects performance or sensitivity of the analysis. From these, detection limits, Reporting Limits (RLs), are established. The RL is the minimum concentration of an analyte that can be identified and quantified within specified limits of precision and bias during routine and analytical operating conditions.

Laboratory reporting limits lie within the calibration range, at or above the RL. For methods that require only one standard, the reporting limit is no lower than the low-level check standard, which is designed to verify the integrity of the curve at lower levels. If reporting limits are required below the lower level of the calibration curve, RL, or low-level check standard, method modifications are required. Refer to DL/LOD/LOQ SOP/1732. Note:."J" Estimated value: Upon customer request, the Target analyte concentration can be reported below the quantitation limit (RL), but above the Detection Limit (DL) with a "J" qualifier as long as there is a LOD study on file.

5.12 LOD/LOQ Studies

A. LOD (Limit of Detection) Verification

1. LOD (Limit of Detection) verification is required annually for each target analyte in which test results are to be reported below the lowest calibration standard ("J" values) for each instrument, matrix and prep procedure.
    a. Quarterly LOD Verification is required for DOD projects unless option of analyzing an LOD with a DoD project batch is employed. In this case quarterly verification is not necessary.

2. All sample-processing steps of the analytical method shall be included in the determination of the LOD.

3. The validity of the LOD shall be confirmed by ***qualitative*** identification of the analyte(s) in a QC sample in each quality system matrix containing the analyte at no more than 2-3X the LOD for single analyte tests and >1 up to 4X the LOD for multiple analyte tests. This verification must be performed on every instrument that is to be used for analysis of samples and reporting of data.

4. An LOD study is not required for any component for which spiking solutions or quality control samples are not available such as temperature Where an LOD study is not performed, the laboratory may not report a value below the limit of quantitation.

B. LOQ (Limit of Quantitation) Verification

1. LOQ (Limit of Quantitation) verification is required annually for each target analyte that is not reported below the lowest calibration standard for each matrix and prep procedure. LOQ is not required if an annual LOD verification is performed. LOQ is required quarterly for all DoD projects unless option of analyzing an LOQ with a DoD project batch is employed. In this case quarterly verification is not necessary.

2. The validity of the LOQ shall be confirmed by successful analysis of a QC sample containing the analytes of concern in each quality system matrix 1-2 times the claimed LOQ. A successful analysis is one where the recovery of each analyte is within the established test method acceptance criteria for accuracy.

The LOQ study is not required for any component or property for which spiking solutions or quality control samples are not commercially available or otherwise inappropriate (e.g., pH).

The LOQ acceptance criteria are based on the established acceptance criteria for Laboratory Control Samples.

Refer to DL/LOD/LOQ SOP/1732

5.13 Range of Logs – Precision of Quantitative Methods - Microbiology

A. Precision of duplicate analyses is calculated for samples examined by enumerative microbiological methods according to the following procedure:

   a. Perform duplicate analyses on first 15 positive samples.

   b. Record duplicate analyses as D1 and D2 and calculate the logarithm of each result.

   c. If either of a set of duplicate results is <1, add 1 to both values before calculating the logarithms.

   d. Calculate the range (R) for each pair of transformed duplicates as the mean of these ranges.

6 Personnel

6.1 Laboratory Management Responsibilities

Management is responsible for communicating the requirements of the quality system, customer specifications and regulatory needs to all personnel. Management job descriptions detail the responsibilities of each position.

The H.R. Director has job descriptions for all positions in the laboratory defining the level of qualifications, training, and experience and laboratory skills. During initial training, management provides access to documented operations procedures, observes personnel performance, and evaluates personnel proficiency. Management documents technical laboratory staff's proficiency initially and on a continuing basis through use of laboratory control samples and purchased proficiency evaluation standards.

Management is responsible for verification of proper sample management and all aspects of data reporting. The communication of the operating practices of the laboratory is through the document control and attestation process.

Either the Quality Assurance Officer, Operations Director and/or Technical Managers have the authority to stop work due to non-conformances and have the authority to resume work after it has been stopped.

6.2 Laboratory Staff Requirements

Recruitment is the responsibility of the Operations Manager and HR Department, with input from other personnel as required. The Training Program procedure SOP/1565 details the process for completing requirements and training to ensure personnel have adequate skills and competence for the job function.

A job description details the necessary requirements for each job and includes position title, minimum educational requirements, skills, responsibilities and reporting relationships and any supervisory responsibility.

Initial training of new employees and contract staff includes laboratory ethics and quality policies, as well as execution of an Ethics Agreement. Any employee found to knowingly violate the Ethics Policy Agreement, report data values, that are not actual values obtained or improperly manipulated, or intentionally report dates and times of data analyses that are not the actual dates and times of analysis, will lead to disciplinary action, including termination, as outlined in Section K of the Employee Handbook. Each employee must report personally or anonymously to the Laboratory Technical Manager, QA Officer and/or Ethics Team Member any accidental or suspected intentional reporting of non-authentic data by others for follow up action. The review of the laboratory ethics policy occurs annually with all personnel. The annual review includes annual renewals of the Ethics Agreement.

The Ethics program consists of the following key components:

- Ethics Policy /Agreement (Appendix F)
- Initial and annual ethics training
- Internal audits conducted annually
- Adherence to Manual Integration SOP/1731
- Ethical or Data Integrity issues reported to Lab Managers, OAO or HR Director

- Anonymous reporting to HR Director - This is accomplished by writing a detailed description of the suspected ethics breach and submitting the information, anonymously, to the Human Resource Director.

- "No-fault" policy encouraging reporting of incidences without fear of retribution

- Electronic tracking and audit trails through LIMs and instruments enable where available.

6.3 Training

The Quality Systems Manual and related documentation is available to all employees. Cross training, supervisory training and other related training takes place on a scheduled and as-needed basis. Training ensures the communication and understanding of all personnel in the laboratory-documented procedures and practices.

All personnel undertake orientation-training sessions upon initial employment. Orientation training includes laboratory business practices, employment specifications, Ethics Policy, Quality Systems Manual, Chemical Hygiene Plan, and all SOPs required for the job function.

Managers ensure the training for new employees and review the continuing training for current employees. Training includes on-site and off-site programs presented by staff members, contractors, equipment manufacturers, and institutions of higher learning.

Training of new personnel to any job assignment takes place on-site according to the Training Program procedure. Laboratory personnel may perform their assigned methods/protocols without supervision only after documentation of acceptable proficiency. Training records lists the current training status.

On-the-job training includes demonstration of skills during job performance, initial demonstration of proficiency, and review of SOPs. Health and Safety training takes place on an annual basis with careful introduction to new principles. Personnel have access to the Chemical Hygiene Plan and Material Safety Data Sheets. On-site training includes side-by-side hands-on training, formal classroom type instruction on the SOP or a meeting to discuss procedural changes or to address questions related to the laboratory operation. All training is documented via the Training Attestation Form, which is signed by all in attendance that they understood and will implement what was presented to them.

Training is an on-going opportunity to evaluate the laboratory operations. The updating of SOPs, Quality Systems Manual and other related information documents all changes to the quality system. Training is documented via the Training Attestation Form or in Qualtrax with training test records.

Off-site training takes place on an as-needed basis. Recommendations and suggestions regarding educational programs come from all levels of staff. It is the employee's responsibility to present a copy of any certificates or attendance information to the HR Director. The information is added to the individual's training record.

6.4 Records

The QA Department is responsible for maintaining training records. Certificates, demonstration of capability forms and other records of training are placed in the individual's training file.

Appropriate personnel are notified through email and/or Qualtrax or by the QA department when a revision is complete for the controlled version of a document. The manager of the area determines when a change is significant to require training.

Job descriptions are included in the training record files. The Human Resources Department reviews the job descriptions, Resumes and/or biosketches are kept on file with the Human Resources Department and the QA Department.

7 Physical Facilities – Accommodation and Environment

This laboratory facility has a total area of 25,000 square feet for each of the Westboro and Mansfield Facilities

The laboratory functional areas include:

- Administration and offices
- Sample receiving
- Sample management
- Air analysis (Mansfield Facility only)
- Microbiological (Westboro Facility only)
- General analytical chemistry
- Metals sample preparation
- Organic sample preparation
- Metals analysis
- Volatiles gas chromatography (GC)
- Volatiles gas chromatography/mass spectrometry (GC/MS)
- Volatiles air analysis (Mansfield Facility only)
- Semivolatiles gas chromatography/mass spectrometry (GC/MS)
- Semivolatiles gas chromatography (GC)
- Miscellaneous facility mechanical and storage areas.

All chemicals are stored in appropriate cabinets and properly disposed of as required. All flammable solvents are stored in OSHA and NFPA approved cabinets. Acids are stored in OSHA acid cabinets. Separate waste areas houses the sample and chemical waste before pickup by a licensed waste hauler.

7.1 Environment

Lighting, noise, humidity, heating, ventilation and air conditioning satisfy the needs of the testing performed on the premises. The laboratory building design ensures regulated temperature control for analytical equipment. Air-handling systems minimize airborne contaminants that may jeopardize sample integrity or analytical performance.

The analytical instrumentation is in separate rooms from laboratory activities that involve the use of large quantities of organic solvents or inorganic acids. A separate room, in the Westboro facility, provides the facilities for the microbiological testing.

Standards and other materials requiring below 0°C storage temperatures are placed in freezers and separated from samples or potential contaminating materials. Refrigerators provide cooling needs for samples and materials with temperature requirements of below room temperature and greater than freezing. Sample and standard storage areas are monitored and controlled for temperature and recorded in the data logger system. Sample storage areas for volatiles are separated from other samples and monitored for any effects due to cross contamination.

Bulk hazardous waste containers are located away from the testing activities. Waste disposal uses lab pack procedures and those designated by the regulatory authorities. The Chemical Hygiene Plan and the Waste Management and Disposal SOPs (Westboro: SOP/1728 and Mansfield SOP/1797)) include the procedures for handling and disposing of chemicals used in the laboratory.

The working and storage environments are maintained in a safe and appropriate manner. A Chemical Hygiene Plan details the requirements for safety and chemical handling. Safety measures that protect property and personnel from injury or illness include: fume hoods, fire extinguishers, fire blankets, alarm systems, safety training, protective clothing, emergency showers, eyewashes, and spill control kits.

7.2 Work Areas

Good housekeeping is the responsibility of all personnel. Each person is responsible for assuring clean and uncluttered work areas. The job descriptions list specific housekeeping duties. Records, samples and waste materials are the common cause for clutter in the laboratory.

. Removal of administration and laboratory records to the record storage area occurs to reduce clutter and ensure traceability. The individual filling the laboratory record box, labels the box with a number, the contents, date and laboratory area. Authorized personnel assign and record into a permanent record the box number, discard date and box contents. Authorized personnel review the box label for number, discard date and contents. Boxes are stored onsite and off-site for the record retention period identified in the NELAC and EPA regulations, whichever is more stringent.

Sample management personnel remove samples to the sample storage area after all data is correct and complete. Sample coolers are removed to a designated storage area for recycling. Samples are stored in the designated process storage areas until testing is complete. Sample removal from the process storage occurs after mailing of the final report. The sample management staff places the samples in the archive storage area for thirty days after report release. The archive sample storage area is not controlled or monitored. Based on customer specifications, samples are properly disposed or returned to the customer.

Waste materials, expired reagents, expired standards and materials are disposed of and not stored in the laboratory. Hazardous waste labeled accumulation containers in the laboratory collect designated waste streams for later bulk disposal. Laboratory personnel remove the less than five-gallon accumulation containers when full from the laboratory and place the containers in the bulk hazardous waste area. Refer to the Waste Management and Disposal SOPS for Westboro: SOP/1728 and Mansfield SOP/1797. Personnel identifying out of date reagents and standards remove the materials to the proper disposal area.

7.3 Security

Alpha Analytical provides a secure environment for our employees, guests, customers, samples and analytical data. Security procedures require that all exterior doors remain locked unless manned. Access to the laboratory is limited to employees and contractors. Visitors not under signed contract are required to sign the Visitors Log and must be accompanied by a laboratory employee at all times within the testing areas.

The defined high security area is the sample management area. Identification card locks on the internal doors control entry into the laboratory area.

All doors are locked after hours and require a key for entry. The security alarm continuously monitors for smoke and fire related heat. When the alarm is activated, the appropriate emergency response officers are notified. The local emergency offices have the emergency contact list for the laboratory.

8 Equipment and Reference Materials

8.1 Maintenance

The laboratory has a proactive equipment maintenance program. The laboratory maintains service contracts for most major equipment, which include routine preventative maintenance visits by the service provider. Technical personnel perform manufacturer's specified maintenance on a routine basis to ensure equipment operates at peak performance.

A brief summary of some common preventive maintenance procedures is provided in Appendix E. All instrument preventative and corrective maintenance is recorded in the maintenance logbook assigned to the equipment. After maintenance or repair, the instrument must successfully calibrate following the method SOP. Laboratory personnel must demonstrate quality control performance before sample analysis.

The laboratory maintains a stock of spare parts and consumables for analytical equipment. Backup instrumentation for some analytical equipment is available on site for use in case of major equipment failure. The person discovering or suspecting an equipment maintenance problem or failure tags the equipment with 'out of service' tag. If routine maintenance measures do not eliminate the problem, the Laboratory Technical Manager or Operations Director is notified and the appropriate equipment service provider is contacted.

All major laboratory equipment has individual and traceable maintenance logbooks in which to document manufacturer's recommended maintenance procedures, specific cleaning procedures, comments on calibration, replacement of small worn or damaged parts, and any work by outside contractors. The person performing routine or non-routine maintenance signs and dates the maintenance logbook. If an instrument is down for maintenance, a complete record of all steps taken to put it back into service is recorded including reference to the new calibration and quality control checks. Any equipment service providers working on the equipment are recorded in the logbook.

Record repetitive or on-going equipment problems other than normal maintenance requirements on nonconformance action forms. The nonconformance action form notifies management and the Quality Assurance Officer of a problem affecting the performance and data quality.

The laboratory groups some equipment into a single laboratory equipment maintenance logbook. Examples include: autopipets, thermometer calibration. The identity of each item is by serial number or a laboratory-designated item number. The same data recorded for major equipment applies to this documentation.

The maintenance records shall include:

- Equipment name;
- Manufacturer's name, type identification, serial number or other unique identification;
- Date received, date put into service, condition when received;
- Current location;
- Details of past maintenance and future schedule;
- A history of any damage, malfunction, modification or repair;
- Dates and results of calibration or verification.

The maintenance logbook may include the reference to the location of the equipment operational and maintenance manuals. The logbook may include the reference to laboratory run logbook or data files for the calibration and quality checks of daily or frequent calibrations.

The Courier Supervisor ensures that maintenance and records for transportation vehicles are complete. The purchasing process is used for ordering garage maintenance, the garage work order is reviewed, and the vehicle checked for condition. The Controller receives all paperwork for completion of the maintenance process.

8.1.1 Microbiology General Equipment Maintenance

Optics of the Quebec colony counter and microscope are cleaned prior to each use. The stage of the microscope is also cleaned and the microscope is kept covered when not in use.

Glassware is checked for residual alkaline or acid residue utilizing bromthymol blue (BTB) on each day of media preparation.

8.2 Equipment Listing

A listing of the major equipment used for testing is available upon request. The equipment list details the unique identification number, equipment location, serial number, model number, and purchase date. The unique identification number is attached to the piece of equipment.

The laboratory performs analyses using state of the art equipment. In addition to the major equipment, the most common equipment used in the laboratory are: thermometers, balances, autopipets, water baths, hot plates, autoclaves, pH meters, conductivity meters and a variety of labware. The SOPs list the calibration and verification requirements for all laboratory equipment used in measurements.

8.3 Laboratory Water

Laboratory water is purified from central DI water systems and piped to all laboratory areas. In Westboro, the QA Department samples the laboratory grade water and submits the samples for analysis by the lab to document the water meets the drinking water certification criteria. The Laboratory Water Logbook lists the daily conductivity checks and acceptance criteria for the laboratory water. The laboratory documents the daily, monthly and annual water quality checks. Please refer to Table 8-1 for tested parameters, monitoring frequency and control limits for each parameter (SOP/1738). Additional parameters may be tested for at the laboratory's discretion.

When additional treatment occurs in the test area, that test area records the water quality checks from the most frequently used tap. At a minimum the quality of the laboratory grade water is monitored daily by conductivity measurements. Records of the daily checks are found in the Laboratory Water Logbook. If out of specification results occur, a nonconformance action form is submitted.

TABLE 8-1

Parameter	Monitoring Frequency	Control Limits
Conductivity	Daily	<2 µmhos/cm @ 25°C
pH	Daily	5.5 - 7.5
Total Organic Carbon (Westboro only)	Monthly	< 1.0 mg/L
Total Residual Chlorine	Monthly	< detection limit
Ammonia Nitrogen (Westboro only)	Monthly	< 0.1 mg/L
Metals: Cd, Cr, Cu, Pb, Ni and Zn (Westboro only)	Monthly (Required Annually)	< 0.05 mg/L
Total Metals (Westboro only)	Monthly (Required Annually)	< 0.1 mg/L
Heterotrophic Plate Count (Westboro only)	Monthly	< 500 CFU/mL

Parameter	Monitoring Frequency	Control Limits
Conductivity	Daily	<2 µmhos/cm @ 25°C
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Total Metals (Westboro only)	Monthly (Required Annually)	< 0.1 mg/L
Heterotrophic Plate Count (Westboro only)	Monthly	< 500 CFU/mL
Water Quality Test (Biosuitability) (Westboro only)	Annually	0.8 – 3.0 ratio

8.4 Reference Materials

Reference materials include. Class 1 weights, NIST thermometers and reference standards. Logbooks record the reference materials used for calibration and verification. The Department Manager or QA Department maintains any certificates received with the reference materials. Laboratory personnel record in the standards logbook the reference standards date received, unique identification number, expiration date and number of containers. Each laboratory area records the unique identifier on the reference standard certificate and the Department Manager maintains the certificate. The identifier allows traceability from the certificate to the analytical data.

9 Measurement Traceability and Calibration

9.1 General Requirements

All measuring operations and testing equipment having an effect on the accuracy or validity of tests are calibrated and/or verified before put into service and on a continuing basis. The results are recorded in the instrument specific logbook. The laboratory has a program for the calibration and verification of its measuring and test equipment. The program includes all major equipment and minor equipment such as balances, thermometers and control standards. The Quality Systems Manual and method SOP describe the calibration records, frequency and personnel responsibilities.

9.2 Traceability of Calibration

The program of calibration and/or verification and validation of equipment is such that measurements are traceable to national standards, where available. Calibration certificates indicate the traceability to national standards, provide the results, and associated uncertainty of measurement and/or a statement of compliance with identified metrological specifications. A body that provides traceability to a national standard calibrates reference standards. The laboratory maintains a permanent file of all such certifications.

9.3 Reference Standards and Materials

Alpha Analytical has a program for calibration and verification of reference standards. The results and program are recorded in the appropriate instrument logbook. Required in-service checks between calibrations and verifications are described in method SOPs and are recorded in the appropriate instrument logbook.

Calibration standards are maintained within the area of consumption. A logbook of use is maintained and use is limited strictly to method required calibrations. Each calibration standard is identified as to test method used, date received, date opened, and expiration date. Calibrations are verified by using a second source or lot number of the calibration standard. Calibration check procedures are stated in applicable test method SOPs.

Reference standards of measurement in the laboratory's possession (such as calibration weights or traceable thermometers) are used for calibration only and for no other purpose.

Standards and reagents are uniquely identified as outlined in Westboro SOP 1745 and Mansfield SOP 1816.

9.4 Calibration General Requirements

Each calibration record is dated and labeled with method, instrument, analysis date, analyst(s) and each analyte name, concentration and response. For electronic processing systems that compute the calibration curve, the equation for the curve and the correlation coefficient are recorded in the appropriate instrument logbook. This is also true for manually prepared curves.

Initial calibration requires a standard curve that brackets the expected sample concentration. Initial calibration generally uses three to five standards depending on the equipment and reference method specifications. Before the start of each analytical sequence, initial calibration is verified by using a continuing calibration standard. Calibration verification or continuing calibration uses a standard from a second source or lot number than that used for initial calibration. The acceptance criteria for the continuing calibration standard must meet acceptance criteria before analysis of any samples. When the acceptance criteria is not within limits, review maintenance protocols and perform any necessary maintenance before starting the initial calibration sequence.

9.5 Equipment Calibration

The SOP used for the analysis defines the instrument and equipment calibration required. The following defines the general practices for equipment calibration of selected equipment.

9.5.1 Gas Chromatography/Mass Spectrometry (GC/MS)

The GC/MS is hardware tuned before performing the initial and continuing calibrations. Results must meet the peak ratio specifications of the analytical methods. For volatiles analyses, bromofluorobenzene (BFB) is used, and for semivolatiles analyses, decafluorotriphenylphosphine (DFTPP) is used for instrument tuning.

The mass spectrometer response is calibrated by analyzing a set of five or more initial calibration solutions, as appropriate, for each GC/MS method. Each solution is analyzed once, unless the method or the customer requires multiple analyses. The relative response factor for each analyte is calculated for internal standard calibration. The calibration factor for external standard calibration is calculated using the expressions found in the laboratory method SOP. Calibration is acceptable when all acceptance criteria are within control limits.

The initial calibration is verified through the analysis of a continuing calibration standard every 12 hours. The concentration of the continuing calibration standard is dependent on the requirements of the specific method. The relative response factors for all analytes of interest are calculated and verified against the initial calibration mean relative response factors. The percent difference (%D) for each analyte is calculated and must be less than the acceptance criteria stated in the method.

An acceptable continuing calibration run must have measured percent differences for the analytes within method specified ranges. If any criteria for an acceptable calibration are not met, either instrument maintenance must be performed until the continuing calibration analysis meets all criteria or a new initial calibration is established before any samples are analyzed. No samples may be analyzed unless the acceptance criteria are met for the initial and continuing calibration.

Additional quality control samples are part of the GC/MS analysis. These include internal standards, surrogates, method blanks, instrument blanks, laboratory control samples, matrix spikes and matrix spike duplicates. The frequency and control criteria are defined in the laboratory SOP.

9.5.2 Gas Chromatography (GC)

Internal standard calibration or external standard calibration is utilized for analysis by GC. The method-specified number of calibration standards is used. Each solution is analyzed once and the analyte relative response factors or calibration factors are calculated. The mean relative response factor for each analyte is then obtained by using the expression in the formula listed in the SOP. Integrated areas are utilized for these expressions.

For multiple response pesticides, PCBs or hydrocarbons the quantitation consists of the average of selected peaks or the integration of the area defined by a reference standard. The SOP details the integration criteria for each compound.

The initial calibration is verified through the analysis of a continuing calibration standard every 12 hours or 20 samples. The concentration of the continuing calibration standard is dependent on the requirements of the specific method. The relative response factors for all analytes of interest are calculated and verified against the initial calibration mean relative response factors. The percent difference (%D) for each analyte is calculated. The percent drift (%d) may be calculated when calibration factors are used for quantitation.

An acceptable continuing calibration must have measured percent differences or percent drift for the analytes within method specified ranges. Should any criteria for an acceptable calibration not be met, either instrument maintenance is performed until the continuing calibration analysis meets all criteria, or a new calibration is established before any samples are analyzed. No

samples may be analyzed unless the acceptance criteria are met for the initial and continuing calibration.

Other standard checks may be required for a specified reference method. Instrument performance checks specified in the reference method must be performed and be within the acceptance limits stated in the reference method. Additional quality control samples are part of the GC analysis. These include internal standards, surrogates, method blanks, instrument blanks, laboratory control samples, matrix spikes and matrix spike duplicates. The frequency and control criteria are defined in the laboratory SOP.

9.5.3 Cold Vapor Atomic Absorption Spectrophotometry (CVAA)

An initial calibration is performed daily with freshly prepared working standards that bracket the expected concentration range of the sample. A minimum of a three-point calibration curve is acquired which must have a correlation coefficient of 0.995 or better. The initial calibration is verified every 10 samples. The continuing calibration is required to be within method-defined criteria, depending on the analytical method employed. Continuing calibration blanks are run at the same frequency. Analysis of samples cannot begin until an initial calibration verification has been performed and is found to be within ± 10% of the true value.

9.5.4 Inductively Coupled Plasma Emission Spectrophotometry-Mass Spectrometry (ICP-MS)

Initial calibration and instrument tune is performed daily, not to exceed 24 hours, and continuing calibrations are performed every 10 samples. Initial calibration consists of a minimum of three standards and a Blank that bracket the expected concentration range of the samples. Analysis of samples cannot begin until an initial calibration verification has been performed and is found to be within method-defined criteria. The continuing calibration is required to be within method-defined criteria. Interference check standards are performed at the beginning of the sequence. Acceptance criteria are stated in the SOP.

9.5.5 Inductively Coupled Plasma Emission Spectrophotometry (ICP)

Initial calibration is performed daily, not to exceed 24 hours, and continuing calibrations are performed every 10 samples. Initial calibration consists of one standard and a Blank that bracket the expected concentration range of the samples. Analysis of samples cannot begin until an initial calibration verification has been performed and is found to be within 5% of the true value for EPA Method 200.7 and 10% for SW846 6010 methods. The continuing calibration is required to be within 10% of the true value. Interference check standards are performed at the beginning and end of the sequence. Acceptance criteria are stated in the SOP.

9.5.6 Thermometers

Laboratory thermometers are checked annually for accuracy against certified, NIST traceable thermometers. Correction factors derived from the annual calibrations are applied to temperature readings where applicable. The analyst records the corrected temperature for all observations.

NIST traceable thermometers are calibrated professionally and re-certified every year. Records of thermometer calibrations are retained by the QA Department. All thermometers are tagged with the ID number, correction factor to be applied and the expiration of the calibration check.

NOTE: Electronic-based thermometers are calibrated on an annual basis and quarterly if associated with DoD projects. Thermometers are tagged with calibration information by the vendor, including the ID number, correction factor to be applied and the expiration of the calibration check. Certificates are kept on file in the QA Department.

Thermometers are not used past the calibration expiration date or if the thermometer is not reading properly. Replacement thermometers are calibrated and the maintenance logbook is

updated when a change in the thermometer is required due to breakage, damage or expired calibration.

9.5.7 Balances

Calibration checks are performed for each day of use, for each balance. The calibration consists of a minimum of two weights, which bracket the weight to be measured. Additional calibration check procedures are performed on balances utilized in Microbiology laboratory. This additional procedure consists of a deflection test, which is performed to ensure that 100mg is detectable at a weight of 150 grams.

The balance logbook lists the acceptance criteria and performance criteria for the various balances used in the laboratory. Calibration weight measurements must meet the acceptance criteria listed on the record form.

Each balance is serviced and calibrated by a professional semi-annually. Balances are labeled with the balance number, date of service and the expiration date for the annual service check. The balance number used for any measurements requiring traceability is recorded with measurement data. Balances are not used past the expiration date or when the weight check is not within acceptable criteria. The accuracy of the calibration weights used by Alpha Analytical is verified annually by an accredited calibration service.

9.5.8 Mechanical volumetric pipettes

Delivery volumes for the mechanical volumetric pipettes (i.e Eppendorf) are checked and recorded gravimetrically before use and on a quarterly basis. The verification is performed at the volume of use or bracketing the volume range of use. The check must be within the criteria stated in the laboratory logbook. If used for DoD projects, then these pipettes are checked by comparing 10 measurements. For future DoD projects using QSM 5.0, these pipettes will be checked daily using 3 measurements.

Pipettes failing acceptance criteria are tagged and removed from service until repaired and the criteria are met, or discarded and replaced. Automatic pipettes are labeled with a unique ID number, volumes verified and expiration date.

9.5.9 Ion Chromatography

The ion chromatograph calibration is by analyzing a set of five or more initial calibration solutions, with concentrations of analytes appropriate to the analytical methods. The concentrations must bracket the expected concentration range of the samples analyzed. Procedures for verifying the calibration curve are method specific. The initial calibration is performed at the start of each day. The calibration curve is verified at least after every 20 samples.

9.5.10 pH Meters

pH meters are calibrated prior to use for each day of use. The meter is calibrated following the procedure for pH analysis. The records of the calibration are recorded in an instrument logbook or in the raw data for the analysis being performed. At least two buffer solutions that bracket the measurement range for the analysis are used for calibration. A second source check standard is used at the end of a run to verify meter stability. Buffer solutions used for calibration are NIST certified. Standard buffer solutions are not retained or re-used. The lot number of the buffer solutions is recorded in the data record to ensure traceability of the measurement to NIST.

9.5.11 Conductivity Meters

Three calibration standards of potassium chloride (KCL) solutions are analyzed annually on each instrument range. The calibration standards are used to verify instrument performance. The

acceptance criteria are defined in the test SOP. If unacceptable performance is found, the cell is cleaned and rechecked. The cell is not used until satisfactory performance is achieved.

A single KCL standard solution is used to calibrate each range of the instrument. A second standard is used to check the calibration each day the meter is used. The check standard is near the measurement range for the samples to be analyzed. The acceptance criterion is ± 20% of the true value. The meter is labeled with expiration date for the annual calibration. A check standard that is NIST traceable is used to allow traceability. The check standard is performed at the end of the analysis run or at least after every 20 samples.

9.5.12 Autoclave

The date, contents, sterilization time and temperature, total cycle time and analyst's initials are recorded each time the autoclave is used. Autoclave cycles must be completed within 45 minutes when a 15 minute sterilization time is used. Autoclave timing mechanisms are checked quarterly with a stopwatch to verify timing controls. A maximum temperature thermometer is used with each cycle to ensure the sterilization temperature is reached.

Spore strips or ampoules are used weekly to confirm sterilization. BTSure ampoules are utilized as follows: An indicator ampoule is placed in most challenging area of sterilizer. Load is processed according to standard operating instructions. Remove from sterilizer and allow to cool for a minimum of 10 minutes. (Chemical indicator on label changes from green to black when processed.) Place the autoclaved indicator and un-autoclaved control indicator in an upright position in the plastic crusher provided. Gently squeeze crusher to break glass ampoules. Incubate both indicators at 55-60°C for 24 hours. Examine appearance for color change. Yellow color indicates bacterial growth. No color change indicates adequate sterilization.

Calibration is conducted and certified annually by an outside service provider and recorded. Certificates are kept on file. Routine maintenance includes cleaning the autoclave seal to ensure freedom of caramelized media and cleaning drain screens to remove any debris buildup. For the efficient operation of the unit, overcrowding is avoided.

10 Test Methods and Standard Operating Procedures

10.1 Methods Documentation

Analysis consists of setting up proper instrument operating conditions, executing acceptable calibrations, monitoring instrument performance tests, analyzing prepared samples, and collecting data from the analyses. The test method SOP describes the instrumental analysis procedures, quality control frequencies and acceptance criteria. EPA accepted methods, national recognized methods or customer-specified methods are the basis for performance criteria, instrument conditions and the steps of the procedure. The method performance requirements of the published methods are followed unless otherwise specified by the customer.

The reference methods define the instrument operating conditions. In many of the reference methods, a range or general guidance on the operating conditions is defined. Documented modifications to the operating conditions clarify the reference methods or improve the quality of the results. In all cases where the method modifications are adopted, the performance criteria from the reference method must be met. Modifications to the operating conditions are stated in the SOP. Changes in the operating conditions made at the time of the analysis are documented in the appropriate laboratory or sequence log. A revision to the SOP takes place. when a day to day change in the operating condition improves performance for all matrices.

The laboratory SOPs include the operation of measurement equipment. The SOPs contain the - following information, as applicable:

- The equipment used in the procedure, including equipment type
- Equipment calibration and process for obtaining the measurement from the calibration
- The step by step instructions to perform the measurement
- Acceptance criteria for the calibrations
- Corrective action for failed acceptance criteria, including assessment of previous calibration results
- The basis used for the calibration standards such as traceability to NIST or EPA or demonstration of comparability
- Frequency at which the equipment will be calibrated, adjusted and checked
- The records maintained to document the calibration and use of measurement equipment
- The calibration status for the equipment
- The environmental conditions necessary before measurement equipment may be calibrated or used for measurement
- Allowed adjustments to measurement equipment, including software, which will not invalidate the laboratory analysis
- Maintenance of the equipment and record keeping to track performance before and after maintenance is completed
- Define the standards, reagents and sample handling, interferences. preservation, and storage in order to assure measurement performance

10.2 Standard Operating Procedures (SOPs)

Alpha Analytical maintains SOPs that accurately reflect all phases of current laboratory activities such as assessing data integrity, nonconformance actions, handling customer complaints, sample receipt and storage, purchasing of all materials, and all test methods. These documents include equipment manuals provided by the manufacturer, internally written documents, and published methods with documented changes or modifications.

Copies of all SOPs are accessible to all personnel in electronic form through Qualtrax. Each SOP clearly indicates the published date of the document and the revision number.

10.3 Laboratory Method Manual (s)

All SOPs are posted as secure documents in the Alpha Qualtrax system. Directories are available for each laboratory area and administrative area in appropriate subfolders. Each SOP includes or references where applicable:

1) identification of the test method and where applicable;
2) applicable matrix or matrices;
3) method detection limit;
4) scope and application;
5) summary of method;
6) definitions;
7) interferences;
8) safety;
9) equipment and supplies
10) reagents and standards
11) sample collection, preservation, shipment and storage,
12) quality control;
13) calibration and standardization;
14) procedure;
15) calculations;
16) method performance;
17) pollution prevention;
18) data assessment and acceptance criteria for quality control measurements;
19) corrective actions for out-of-control data;
20) contingencies for handling out-of-control or unacceptable data,
21) waste management;
22) references; and
23) any tables, diagrams, flowcharts and validation data.

In cases where modifications to the published method have been made by the laboratory or where the referenced method is ambiguous or provides insufficient detail, these changes or clarifications are clearly described in the SOP.

10.4 Test Methods

The laboratory uses appropriate methods and procedures for all tests and related activities within its responsibility (including sampling, handling, transport and storage, preparation of items, estimation of uncertainty of measurement and analysis of test data). The method and procedures are consistent with the accuracy required, and with any standard specification relevant to the calibrations or tests concerned. When the use of mandated methods for a sample matrix is required, only those methods are used. Where methods are employed that are not required, the methods are fully documented and validated and are available to the customer and other recipients of the relevant reports.

The customer requests the reference method for sample analysis usually based on the regulatory program. The customer services staff may assist the customer with method selection when the customer specifies the regulatory program, but is unsure of the correct method required. The Laboratory Technical Manager or Quality Assurance Officer recommends methods for non-regulatory programs. In all cases, recommendation of methods is based on customer-defined method performance criteria. Customer services may recommend a procedure that meets the customer method performance criteria.

10.5 Method Validation/Initial Demonstration of Method Performance

Before acceptance and use of any method, satisfactory initial demonstration of method performance is required. In all cases, appropriate forms are completed and retained by the laboratory and made available upon request. All associated supporting data necessary to reproduce the analytical results is retained. Initial demonstration of method performance is completed each time there is a significant change in instrument type, personnel or method.

10.6 Sample Aliquots

The aliquot sampling process from a submitted sample is part of a test method. The laboratory uses documented and appropriate procedures and techniques to obtain representative sub-samples. Sample aliquots removed for analysis are homogenized and representative portions removed from the sample container. Personnel record observations made during aliquot sampling in the test method logbooks.

10.7 Data Verification

Calculations and data transfers are subject to appropriate checks. A second person recalculates all manual calculations. An independent qualified analyst also reviews the data. A Customer Services representative reviews data for project and method performance requirements where applicable. A QA representative reviews data for project and method performance requirements when requested by a Customer. Final report review is performed by an authorized company signatory.

For drinking water suppliers, every effort is made to notify the Customer within 24-hours of obtaining valid data of any results that exceed any established maximum contaminant level or reportable concentration. Analyst or Department Supervisor notifies the Customer Services Department of the sample number(s), Customer name, analysis and sample results (preliminary or confirmed). The Customer Services Department notifies the customer.

The laboratory Report Generation and Approval SOP describes the practices to ensure that the reported data is free of transcription errors and calculation errors. Manually entered data into the LIMS is dual entered and checked by the LIMS to minimize transcription errors. The laboratory test method SOP describes the quality control measures used to assure method performance before reporting data.

10.8 Labeling of Standards and Reagents

The purchase, receipt and storage of consumable materials used for the technical operations of the laboratory include the following:

a) The laboratory retains records of manufacturer's statement of purity, of the origin, purity and traceability of all chemical and physical standards.
b) Original reagent containers are labeled with the date opened and the expiration date.
c) Detailed records are maintained on reagent and standards preparation. These records indicate traceability to purchased stocks or neat compounds and include the date of preparation and preparer's initials.

d) Where calibrations do not include the generation of a calibration curve, records show the calibration date and type of calibration standard used.

e) All prepared reagents and standards are uniquely identified and the contents are clearly identified with preparation date, concentration and preparer's initials. These procedures are outlined in Westboro SOP/1745 and Mansfield SOP/1816.

10.9 Computers and Electronic Data Related Requirements

Computers or automated equipment are used for the capture, processing, manipulation, recording, reporting, storage or retrieval of test data. The laboratory ensures that computer software is documented and adequate. The goals of the software development methodology, existing system validations and the change control system are to ensure that:

the software systems perform the required functions accurately,

the users understand how to use the system, and

auditors can assure themselves of the validity of the analytical data.

The computer systems used at Alpha Analytical are purchased. A coordinated effort is made with the supplier to assure the computer operations meet the laboratory requirements for data integrity. Alpha Analytical has a formal validation program of its computer systems. The validation program is a comprehensive program to ensure data transmitted, reported or manipulated by electronic means is correct and free of errors. The validation and verification approach is separated into three areas.

1. New software is developed and validated using test data. Records of validation include the test data report, date and initials. Where formulas are part of the program, documentation includes manual verification of the final calculated values. New software includes the development of macros for spreadsheets and other tools using commercial software packages.

2. Reasons for changes to software are identified through flaws in existing documentation or the need to improve system processes and are documented on the Nonconformance Report. Final implementation of the change is documented on the nonconformance action form. The tracking and timelines of making the change is readily available. This process also provides the complete documentation of all software and electronic data reporting problems.

Verification of system integrity is through routine maintenance, protection from unauthorized access and electronic verification programs. Routine maintenance including system backups are performed on a scheduled basis. The backup process and password and access protections are defined in the Computer System Backup Control SOP/1562 and Computer Security SOP/1563. Electronic verification may be used to assure the commercially purchased software is performing at its original specifications. This includes virus checking of all network operation at least once per week. Documentation of all verification and maintenance operations is retained.

11 Sample Handling, Sample Acceptance Policy and Sample Receipt

The Sample Login and Custody procedures define the process for sample management from sample receipt through analysis and to disposal. These procedures detail the process for sample receipt, records and storage pending analysis.

Customers or Alpha's Couriers deliver samples to the laboratory during normal business hours. Sample receiving occurs in the sample management area.

Customer service personnel place bottle orders. The orders are filled following the bottle order instruction form. Blanks are prepared as needed with minimal storage. All glass containers are packed to minimize or prevent breakage. The containers are placed in plastic coolers or shipping packages and Chain-of Custody forms, seals (if requested) and labels enclosed. The bottle order is shipped by third party, picked up by the customer or customer representative or delivered by Alpha courier to the customer.

11.1 Sampling Supplies

11.1.1 Sample Containers

Sample containers provided by Alpha Analytical include labels, preservatives and a blank chain of custody form. Preservatives and containers are lot controlled and verified as appropriate for the indicated type of analysis.

Each lot of containers used for the collection of samples for microbiological analysis is checked for sterility prior to distribution. Sterility checks are performed by Microbiology staff and results recorded in Microbiology Sample Container Sterility Log.

11.1.2 Chain of Custody

Chain of custody forms must accompany all samples received by Alpha personnel. The chain of custody form indicates the sample origin and arrival at the laboratory and identifies the analyses requested.

11.1.3 Reagent Water

Alpha Analytical supplies laboratory pure water for field QC blanks. Water used for volatile organics must be free of volatile compounds below the method detection limit. The quality of the laboratory water is monitored for conductivity once per day. Additional water quality criteria may be monitored based on customer specific requests. The water quality in the laboratory is monitored for chemical parameters as required by the EPA certification manual for drinking water (Water Quality Monitoring SOP/1738).

11.2 Sample Tracking

Alpha Analytical uses an internal chain-of-custody in LIMs for sample tracking control purposes. When requested or required by regulation a legal custody program is used in addition to the routine laboratory practices. Legal custody practices must be arranged at the time of contractual commitment.

For legal custody the process must include complete and continuous records of the physical possession, storage, and disposal of sample containers, collected samples, sample aliquots, and sample extracts or digestates. For legal custody a sample is in someone's custody if:

1. It is in one's actual physical possession;
2. It is in one's view, after being in one's physical possession;

3. It is in one's physical possession and then locked up so that no one can tamper with it;
4. It is kept in a secured area, restricted to authorized personnel only.

The routine sample handling and tracking process includes unique identification of **all** sample containers, initials of the person removing the sample from the sample management area and documentation of the date of sample removal for disposal.

Samples are assigned a unique identification number from the LIMS program. Each sample container label includes a unique identifier for the container. The person handling the sample is recorded along with the unique identifier in the container tracking records in LIMS.

ALPHA ANALYTICAL utilizes a custom designed Laboratory Information Management System (LIMS) to uniquely identify and track samples and analytical data throughout the facility. The LIMS log-in, is initiated by the Sample Custodian when the following information is entered into the computer:

- Quote number (unique to the project if requested)
- Project name or description
- Analyses requested (per matrices received)
- Sample number (unique to this sample)
- Sample descriptions (customer ID, including number of received containers)
- Date received
- Date(s) and time(s) collected
- Date analytical results are due
- Customer's name and address
- Notation of special handling instructions
- Additional comments or instruction for the laboratory
- Purchase order number(s), if applicable

Alpha Job Numbers (Process for assigning numbers)

Alpha Job Numbers are unique #'s automatically designated by our LIMS computer system for every individual customer project.

There are 3 parts to this number:

- All numbers start with the letter "L"
- The next two numbers are the last two numbers of the current year.
- The last five numbers are pulled sequentially by the LIMS as each Login personnel requests a new number for a job.

  For example.... L0904165 ---- Year 2009 and 4,165th job to be logged in this year.

  The Alpha Job Number then may contain as many extensions as there are individual samples in a job. L0904165-01 is the first sample, L0904165-02 is the second and so on. Each sample may contain as many as 26 containers as the containers are designated with the letters of the Alphabet, and each container receives its own bar-coded label. For example, L0904165-09A is the first container of the 9th sample listed on a customer's Chain of Custody.

Each container is labeled with a unique identifier, a label with a unique identifier number is placed on each sample container. Once labeled, the sample containers are placed in the appropriate storage area.

11.3 Sample Acceptance Policy

The sample management personnel check for proper sample labeling, preservation and handling at the time of arrival at the laboratory. The customer and customer services manager specifies the proper sample preservation, containers, cooling and other criteria on the project review form and in the LIMS. Sample management staff record all observations and immediate notify customer services of any discrepancies or questions arising during sample receipt.

It is possible for samples or sample containers to be lost, damaged, or determined to be unsuitable, for whatever reason, after initial receipt at Alpha Analytical. The problem is brought to the attention of a customer services manager who reports it to the customer. Plans for disposition of the affected samples or container are agreed upon with the customer, carried out, and recorded in the project records.

11.4 Sample Receipt Protocols

The sample management staff receives all samples. A unique job number is assigned to each shipment of samples received from a customer. The in-house records for the incoming job, including the internal Chain-of -Custody, are initiated with a Sample Delivery Group (SDG) form. The customer, and Alpha courier and/or the sample management personnel sign the sample custody form at the time of receipt at the laboratory. Samples received via overnight courier are signed on the bill of lading. The bill of lading. SDG form and the sample custody form are completed for external courier delivered samples.

The sample management staff examines the shipping containers, their contents, and accompanying customer documentation. Information about the sample identification, the location, date and time of collection, collector's name, preservation type, sample type, presence and condition of custody seals, the state of preservation of the samples and other required information is noted on the SDG form. Any discrepancies in documentation or problems with sample condition such as appropriate sample containers, thermal preservation variation, holding times and adequate sample volumes are noted and brought to the attention of the customer via the nonconformance action form. The Customer Services Manager provides clarification or further instruction to the sample management staff on the processing of the samples that are incomplete or missing required information.

The sample management staff logs the samples in the LIMs and a durable label for each container is printed. The custodian attaches each label to the appropriate sample container. The following information is recorded for tracking internal custody: laboratory sample ID, customer sample ID, sample matrix and storage location. Sample receipt and log-in specifically requires: date and time of laboratory receipt of sample(s); sample collection date; unique laboratory ID code; field ID code supplied by sample submitter; requested analyses; signature or initials of data logger; comments from inspection for sample acceptance or rejection and in some cases, sample bottle codes.

11.5 Storage Conditions

Alpha Analytical stores samples under proper environmental conditions to ensure their integrity and security. Samples are stored at temperatures that meet specifications of the methodology, regulatory agencies and customer directives. Refrigerators are monitored and controlled to be within 4 ± 2°C. Chemical. temperature, holding times and container storage requirements are listed in the LIMS project database.

Customer Quality Assurance Project Plans may list preservation requirements differing from the laboratory. The sample management staff reviews project information for projects specific handling. Addition of chemical preservative to sample containers normally is done in the field at the time of sampling. Chemical preservation and temperature preservation checks at the time of receipt are recorded except for volatile organic compounds, bacteria, sulfite, and dissolved oxygen preservation. Any differences from laboratory or customer specific requirements are recorded on nonconformance action forms and contact made with the customer by the Customer Services Manager or designee.

Sample storage facilities are located within the sample management area or in designated sample storage areas within the analytical departments. Internal chain-of-custody procedures and documentation pertaining to sample possession, removal from storage, and transfer are outlined in the sample custody procedure. Samples are returned to the sample storage area after the sample portion is removed for analysis. Extracts and digestates are tracked and follow the same internal custody operation. Extracts and digestates are removed to the waste disposal area after analysis for proper disposal.

Sample storage precautions are used to ensure that cross contamination does not occur during sample storage. Refrigerator storage blanks are monitored for volatile compounds as necessary. The storage blank information allows the assessment of potential cross contamination in the sample storage refrigerator.

Temperatures of cold storage areas are recorded continuously in the data logger system. Corrective action is done as necessary when temperatures are not within the control criteria. In both the Westboro and Mansfield facilities, Automated Data loggers are linked to thermocouples in custody refrigerators and freezers in the Sample Storage areas as well as department standards/storage refrigerators and freezers. The Data logger is calibrated and certified by an outside vendor on a quarterly basis. Refrigerators and/or freezers not connected to the Data Logger system have temperatures measured with NIST traceable thermometers. Temperature records indicate the thermometer or sensor (Data logger) used for obtaining the measurement.

11.6 Sample Disposal

Samples are held for 21 calendar days after the report is released to the customer. Upon written customer request samples may be held longer in an uncontrolled area. Requests for controlled sample storage must be arranged at the time of contractual commitment. Air canister samples are held for 3 days after the report is released to the customer.

An authorized waste carrier is contracted to pick up waste as needed and dispose of it, in accordance with all regulatory requirements. Post-analysis disposition of samples is dependent upon project specific requests. Remaining sample material may be returned to the customer, safely discarded, or archived for a specific time prior to disposal. The waste disposal SOP defines the specific requirements for sample disposal and other waste disposal operations.

The sample management staff are responsible for the archival and disposal of raw samples, extracts and digestates. Raw and prepared samples may not be archived or disposed until all of the designated analyses are complete and resultant analytical data is sent to customers. Samples in storage are retained a minimum of 21 calendar days after reporting the results to the customer. Any samples requiring more than 21 calendar days are archived. Air canister samples requiring storage more than 3 business days require prior approval.

When a customer has requested the return of samples, the sample management staff prepares and ships the samples according to the same custody procedures in which the samples were received and following any customer specified requirements. Protection of the samples during delivery is ensured by the implementation of special packaging procedures. Packages are delivered by a commercial carrier whose procedures for protecting the samples are not within the

control of this laboratory. Customers are informed that a commercial carrier will deliver their samples if required.

12 Records

Alpha Analytical has a record system that produces accurate records, which document all laboratory activities. The laboratory retains records of all original observations, calculations and derived data, calibration records and a copy of the test for ten years minimum. The system retains records longer than the minimum upon the request of authorized customers, agencies or another regulator.

12.1 Record Keeping System and Design

The record keeping system allows reconstruction of laboratory processes that produced the analytical data of the sample.

a) The records include the names of personnel involved in sampling, preparation, calibration or testing.

b) Information relating to laboratory facilities equipment, analytical methods, and activities such as sample receipt, preparation, or data verification are documented.

c) The record keeping system provides retrieval of working files and archived records for inspection and verification purposes.

d) Documentation entries are signed or initialed by responsible staff.

e) Generated data requiring operator logging on appropriate logsheets or logbooks are recorded directly and legibly in permanent ink

f) Entries in records are not obliterated by any method. Corrections to errors are made by one line marked through the error. The person making the correction signs and dates the correction.

g) Data entry is minimized by electronic data transfer and ensuring the number of manual data transcriptions is reduced.

12.2 Records Management and Storage

1. Records including calibration and test equipment, certificates and reports are safely stored, held secure and in confidence to the customer.
2. The laboratory maintains hardware and software necessary for reconstruction of data.
3. Records that are stored or generated by computers have hard copy or write-protected backup copies.
4. Alpha Analytical has established a record management system, for control of hard copy laboratory notebooks.
5. Access to archived information is carefully controlled and is limited to authorized personnel. These records are protected against fire, theft, loss, environmental deterioration, vermin, and in the case of electronic records, electronic or magnetic sources.

6. In the event that Alpha Analytical transfers ownership or goes out of business, there is a plan to ensure that the records are maintained or transferred according to the customer's instructions. A plan will be developed to maintain continuity of our record keeping systems as requested and/or required by both state and federal laws.

Alpha Analytical retains all original hard copy or electronic raw data for calibrations, samples, and quality control measures for ten years, including:

1. Analysts work sheets and data output records,
2. Reference to the specific method,
3. Calculation steps including definition of symbols to reduce observations to a reportable value.
4. Copies of all final reports
5. Archived SOPs,
6. Correspondence relating to laboratory activities for a specific project,
7. All nonconformance action reports, audits and audit responses,
8. Proficiency test results and raw data.
9. Data review and cross checking.

The basic information to tie together analysis and peripherals such as strip charts, printouts, computer files, analytical notebooks and run logs for Alpha Analytical includes:

1. Unique ID code for each Laboratory sample or QC sample;
2. Date of analysis;
3. Instrument identification and operating conditions;
4. SOP reference and version;
5. Calculations;
6. Analyst or operator's initials/signature.

In addition, Alpha Analytical maintains records of:

1. Personnel qualifications, experience and training
2. Initial and continuing demonstration of proficiency for each analyst
3. A log of names, initials and signatures for all individuals who are responsible for signing or initialing any laboratory records.

12.3 Laboratory Sample Tracking

A record of all procedures to which a sample is subjected while in the possession of the laboratory is maintained. These include but are not limited to records pertaining to

a) Sample preservation including appropriate sample container and compliance with holding time requirement; If the time of the sample collection is not provided, the laboratory must assume the most conservative time of day (i.e., earliest).

b) Sample identification, receipt, acceptance or rejection and log-in:

c) Sample storage and tracking including shipping receipts, transmittal forms, and internal routing and assignment records; this includes inter-laboratory transfers of samples, extracts and digestates.

d) Sample preparation including cleanup and separation protocols, ID codes, volumes, weights, instrument printouts, meter readings, calculations, reagents;

e) Sample analysis;

f) Standard and reagent origin, receipt, preparation, and use;

g) Equipment receipt, use, specification, operating conditions and preventative maintenance;

h) Calibration criteria, frequency and acceptance criteria;

i) Data and statistical calculations, review, confirmation, interpretation, assessment and reporting conventions;

j) Method performance criteria including expected quality control requirements;

k) Quality control protocols and assessment;

l) Electronic data security, software documentation and verification, software and hardware audits, backups, and records of any changes to automated data entries;

m) Automated sample handling systems;

n) Records storage and retention; and

o) Disposal of hazardous samples including the date of sample or sub-sample disposal and the name of the responsible person.

p) The COC records account for all time periods associated with the samples.

q) The COC records include signatures of all individuals who had access to individual samples. Signatures (written or electronic) of all personnel who physically handle the samples. Time of day and calendar date of each transfer or handling procedure.

r) Common carrier documents.

13 Laboratory Report Format and Contents

The Process Planning and Control Procedure details the recording and reporting of data as required by the customer and in accordance with relevant environmental regulations.

Customers specify the report delivery and deliverables required for the work submitted. Report delivery includes standard turnaround and rush turnaround. Customers specify the delivery address or multiple addresses and method of delivery such as U.S. Mail, facsimile or electronic at the start of the project. Alpha Analytical provides data deliverables in hardcopy or electronic format. At the start of any project, the electronic deliverable formats required must be received before sample arrival.

Reporting packages are available for routine regulatory reporting requirements. Regulatory reporting packages include only the information requested by the regulatory agency. In addition to regulatory report packages, Alpha Analytical prepares a standard report format. The standard report format includes:

1. Title: "Certification of Analysis"
2. Name and address of the laboratory
3. Laboratory Job Number, page number and total number of pages included in the report.
4. Name and address of the customer
5. Alpha sample number, Customer identification, Sample location
6. Samples identified that do not meet the sample acceptance requirements for project.
7. Date of sample receipt, sample collection, analysis date and time, report date and analyst
8. Identification of data reported by subcontractors
9. Test name and EPA reference method number
10. Delivery method and sampling procedures when collected by lab personnel
11. Deviations or modifications that affect data quality
12. Statement that results relate only to the sample tested
13. Statement that report must be copied in full unless the laboratory provides written permission for partial copies
14. Glossary, References and limits of liability
15. Units of measure and reporting detection limit
16. Quality control data for: % Recovery surrogates, % Recovery of LCS, % RPD of LCSD, Blank analysis, % Recovery Matrix Spike, %RPD of Laboratory Duplicates, as applicable
17. Signature, title and date of report
18. A "Certificate/Approval Program Summary" page is included at the end of the report that identifies analytes for which Alpha Analytical holds certification and for those analytes reported that it does not. This summary also includes the certification numbers for either NELAP certified states, State certifications (e.g. Massachusetts

laboratory certification identification number) and DoD certification identifications.

19. Alpha Analytical does not accept samples from private residents for drinking water analysis and therefore maximum contaminant levels are not necessary. If Alpha were to change its policy and report drinking water samples, MCLs would be included with the report.

Results transmitted by facsimile or other electronic means include a statement of confidentiality and return of the materials at the laboratory's expense.

The laboratory notifies the customer in writing of any circumstance that causes doubt on the validity of the results. The amended or modified report lists the change, reason for the change, affected page numbers, date of the amendment and authorized signature.

13.1 Data Qualifiers

The following data qualifiers are used in conjunction with analytical results depending on the definition, state or regulatory program and report type.

Note: "J" Estimated value: Upon customer request, the Target analyte concentration can be reported below the quantitation limit (RL), but above the Method Detection Limit (DL) with a "J" qualifier as long as there is a LOD study on file. (See section 5.11)

Data Qualifier	Report Format	Qualifier Information	Regulatory Requirement
A	All DU	Spectra identified as "Aldol Condensation Product".	CT RCP, NC
B	All DU	The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.	EPA Functional Guidelines 'MassDEP MCP, CT RCP, DoD, NJ-TO15/LL-TO15
C		Pesticide and Aroclor results identified have been confirmed by GC/MS	DE HSCA
C		Co-elution: target analyte co-elutes with a known lab standard (i.e. surrogates, internal standards, etc.) for co-extracted analyses.	Forensics
C		Co-eluting Congener	NJ

D	All DU	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.	NJ-TO15/LL-TO15 - Air only EPA Functional Guidelines; EPA Region 2.5
E	All DU	Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.	EPA Region 2.5 CT RCP, NJ-TO15/LL-TO15
EMPC		Estimated maximum possible concentration. Indicates that a peak is detected but did not meet all the method required criteria.	NJ
G	All DU	The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.	In-house/Forensics.
G		A single quality control failure occurred during BOD analysis. Results should be used with caution	NC
H	All	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.	NELAC
H		Sample result is estimated and biased high.	EPA Region 5
I	All DU	The lower value for the two columns has been reported due to obvious interference..	In-house.
J	DU	Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).	CT RCP (for TICs), DoD
J	DU-J	Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (DL). This represents an estimated concentration for Tentatively Identified Compounds (TICs).	CT RCP (for TICs). DoD

J	DU-JRDL	Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above one half the RL. This represents an estimated concentration for Tentatively Identified Compounds (TICs).	CT RCP (for TICs), DoD
JN (NJ)	All DU	Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICD), where the identification is based on a mass spectral library search.	EPA Functional Guidelines 'NJ-TO15-LL
N	All DU	The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)	ASP
ND	DU-J	Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for same-related analysis	In-house
ND	DU-JRDL	Not detected at one half the reporting limit (RL) for the sample.	In-house
P	All DU	The RPD between the results for the two columns exceeds the method-specified criteria.	MassDEP MCP, CT RCP
P		Elevated PQL due to matrix interference and/or sample dilution.	NC
Q	All DU	The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)	DoD
Q		Holding time exceeded. Does not meet NPDES requirements	NC
R	All DU	Analytical results are from sample re-analysis	DoD, Customer-specific
RE	All DU	Analytical results are from sample re-extraction.	DoD, Customer-specific

S		Not enough sample provided to prepare and/or analyze a method-required matrix spike (MS) and/or duplicate (MSD)	NC
U	NA	The analyte was analyzed for but not detected at or above the reporting limit.	EDD formats, DoD, NJDEP, NJ-TO15/LL-TO15, EPA Functional Guidelines

14 Outside Support Services and Supplies

When Alpha Analytical purchases outside services and supplies in support of tests, the laboratory uses only those outside services and supplies that are of adequate quality to maintain confidence in the tests.

The Purchasing SOP/1726 describes approval and monitoring of all suppliers and subcontractors used by the laboratory. Where no independent assurance of the quality of outside support services or supplies is available, the laboratory ensures that purchased equipment, materials, and services comply with specifications by evaluating method performance before routine use.

The laboratory checks shipments upon receipt as complying with purchase specifications. The use of purchased equipment and consumables is only after the evaluation and compliance to the specifications is complete. The Purchasing SOP/1726 describes the details for receipt and inspection of purchased product.

The Purchasing SOP describes the process for raising, review and placement of purchase orders. It is company policy to purchase from third party certified suppliers and subcontractors wherever possible. Purchases must be from suppliers approved by the Laboratory. Laboratory or sampling subcontractors specified by the customer are noted as "Trial" on the purchase order. This identifies the subcontractor as a non-approved subcontractor.

The laboratory maintains list of approved vendors (Form 13-01) and subcontractors from whom it obtains support services or supplies required for tests.

14.1 Subcontracting Analytical Samples

Customers are advised, verbally and/or in writing, if any analyses will be subcontracted to another laboratory. Any testing covered under NELAC that requires subcontracting, will be subcontracted to another NELAC accredited laboratory for the tests to be performed. Any testing covered under the DOD QSM that requires subcontracting, will be subcontracted to another accredited DOD laboratory and must be project-specific approved from the DOD customer before analysis begins. These requirements for DOD projects pertain to both Westboro and Mansfield facilities. The laboratory approves testing and sampling subcontractors by review of current state, national or other external parties' certifications or approvals. This document must indicate current approval for the subcontracted work. Any sample(s) needing special reports (*i.e.*, MCL exceedence) will be identified on the chain of custody when the laboratory subcontracts with another laboratory. Subcontractor Laboratory Certifications are located in Qualtrax under Customer Services folder

The Sample Receipt and Login Procedure describes the process for sample handling when subcontracting samples. The quotation form lists the subcontractor in order to notify the customer of any subcontracted work. Customer notification of subcontracted work is in writing before releasing samples to the subcontractor.

The review of subcontractor documents for completeness and meeting the specifications defined for the project follows the laboratory process for reporting and verification of process data. The person responsible for receiving the order reviews the information supplied by the subcontractor instead of the Department Supervisor.

15 Customer Relations

15.1 Customer Service

The majority of the customer services occur from personnel in the administration, sample receiving and sampling areas. Customer service involves inquiries into services offered, technical consulting, placing orders, and receiving orders, providing updates on the status of orders and completing orders. Personnel interacting with customers must document and review customer specific project requirements. Call Tracker is used to document communications with customers (SOP/1723). Personnel must document customer interactions following the appropriate laboratory procedures. Each person must communicate deviations, modifications and customer requests following the laboratory defined procedures.

15.2 Project Management

During staff meetings the laboratory management reviews requests for new work. The Operations Director and/or Laboratory Technical Manager address all capacity and capability issues. Where conflicts in workload arise, customer notification is immediate. The Project Communication Form (PCF) contains the documentation of all project information. Cooperation between laboratory and customer services staff allows direct communication and scheduling. Management arranges complex scheduling and coordination between departmental areas.

15.3 Complaint Processing

The laboratory staff documents all customers or other parties' complaints or concerns regarding the data quality or laboratory operations. The Nonconformance Report records complaints, correcting the concern, and resolving the concern with the customer or other party. The process uses the same form and process as the nonconformance action process. Where repetitive corrective actions indicate a problem, an audit of the area, Customer Inquiry and Complaint SOP/1722 is immediate to ensure the corrective action has effectively solved the concern.

16 Appendix A – Definitions/References

The following definitions are from Section 3.0 of the 2009 TNI Standard. The laboratory adopts these definitions for all work performed in the laboratory. In addition, there are clarifications to certain definitions according to the DoD QSM.

Acceptance Criteria: specified limits placed on characteristics of an item, process, or service defined in requirement documents. (ASQC)

Accreditation: the process by which an agency or organization evaluates and recognizes a laboratory as meeting certain predetermined qualifications or standards, thereby accrediting the laboratory. (TNI)

Accuracy: the degree of agreement between an observed value and an accepted reference value. Accuracy includes a combination of random error (precision) and systematic error (bias) components which are due to sampling and analytical operations; a data quality indicator. (TNI)

Aliquot: A discrete, measured, representative portion of a sample taken for analysis. (DoD; EPA QAD glossary)

Analyst: The designated individual who performs the "hands-on" analytical methods and associated techniques and who is the one responsible for applying required laboratory practices and other pertinent quality controls to meet the required level of quality. (TNI)

Analyte: The specific chemicals or components for which a sample is analyzed; it may be a group of chemicals that belong to the same chemical family, and which are analyzed together. (EPA Risk Assessment Guide for Superfund; OSHA Glossary)

Analytical Uncertainty: A subset of Measurement Uncertainty that includes all laboratory activities performed as part of the analysis. (TNI)

Assessment: The evaluation process used to measure or establish the performance, effectiveness, and conformance of an organization and/or its systems to defined criteria (to the standards and requirements of laboratory accreditation. (TNI)

Assessment (Clarification): The evaluation process used to measure the performance or effectiveness of a system and its elements against specific criteria. (DoD)

Assessment Criteria: the measures established by NELAC and applied in establishing the extent to which an applicant is in conformance with NELAC requirements. (NELAC)

Audit: A systematic and independent examination of facilities, equipment, personnel, training, procedures, record-keeping, data validation, data management, and reporting aspects of a system to determine whether QA/QC and technical activities are being conducted as planned and whether these activities will effectively achieve quality objectives. (TNI)

Batch: environmental samples. which are prepared and/or analyzed together with the same process and personnel, using the same lot(s) of reagents. A **preparation batch** is composed of one (1) to twenty (20) environmental samples of the same quality systems matrix, meeting the above mentioned criteria and with a maximum time between the start of processing of the first and last sample in the batch to be 24 hours. An **analytical batch** is composed of prepared environmental samples (extracts, digestates or concentrates), which are analyzed together as a group. An analytical batch can include prepared samples originating from various quality system matrices and can exceed 20 samples. (TNI)

Bias: The systematic or persistent distortion of a measurement process, which causes errors in one direction (i.e., the expected sample measurement is different from the sample's true value). (TNI)

Blank: a sample that has not been exposed to the analyzed sample stream in order to monitor contamination during sampling, transport, storage or analysis. The blank is subjected to the usual analytical and measurement process to establish a zero baseline or background value and is sometimes used to adjust or correct routine analytical results. (TNI)

Blanks include:

Equipment Blank: a sample of analyte-free media, which has been used to rinse common sampling equipment to check effectiveness of decontamination procedures.

Field Blank: blank prepared in the field by filling a clean container with pure de-ionized water and appropriate preservative, if any, for the specific sampling activity being undertaken. (EPA OSWER)

Instrument Blank: a clean sample (e.g. distilled water) processed through the instrumental steps of the measurement process, used to determine instrument contamination. (EPA-QAD)

Method Blank: A sample of a matrix similar to the batch of associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses. (TNI)

Reagent Blank: (method reagent blank): a sample consisting of reagent(s), without the target analyte or sample matrix, introduced into the analytical procedure at the appropriate point and carried through all subsequent steps to determine the contribution of the reagents and of the involved analytical steps. (QAMS)

Blind Sample: a sub-sample for analysis with a composition known to the submitter. The analyst/laboratory may know the identity of the sample but not its composition. It is used to test the analyst or laboratory's proficiency in the execution of the measurement process.

Calibration: set of operations which establish, under specified conditions, the relationship between values of quantities indicated by a measuring instrument or measuring system, or values represented by a material measure or a reference material, and the corresponding values realized by standards. (TNI)

1) In calibration of support equipment the values realized by standards are established through the use of Reference Standards that are traceable to the International System of Units (SI).

2) In calibration according to test methods, the values realized by standards are typically established through the use of Reference Materials that are either purchased by the Laboratory with a certificate of analysis or purity, or prepared by the Laboratory using support equipment that has been calibrated verified to meet specifications.

Calibration Range: The range of values (concentrations) between the lowest and highest calibration standards of a multi-level calibration curve. For metals analysis with a single-point calibration, the low-level calibration check standard and the high standard establish the linear calibration range, which lies within the linear dynamic range.

Calibration Curve: the graphical relationship between the known values, such as concentrations, of a series of calibration standards and their instrument response. (TNI)

Calibration Method: A defined technical procedure for performing a calibration.

Calibration Standard: A substance or reference material used to calibrate an instrument. (TNI)

Certified Reference Material (CRM): Reference material, accompanied by a certificate, having a value, measurement uncertainty, and stated metrological traceability chain to a national metrology institute. (TNI)

Chain of Custody Form: Record that documents the possession of the samples from the time of collection to receipt in the laboratory. This record generally includes: the number and types of containers; the mode of collection; collector; time of collection; preservation; and requested analyses. See also Legal Chain of Custody Protocols (TNI)

Clean Air Act: the enabling legislation in 42 U.S.C. 7401 *et seq.*, Public Law 91-604, 84 Stat. 1676 Pub.L. 95-95, 91 Stat., 685 and Pub. L. 95-190, 91 Stat., 1399, as amended, empowering EPA to promulgate air quality standards, monitor and to enforce them.

Confirmation: Verification of the identity of a component through the use of an approach with a different scientific principle from the original method. These may include, but are not limited to: Second column confirmation, Alternate wavelength, Derivatization, Mass spectral interpretation, Alternative detectors, or Additional cleanup procedures (TNI)

Customer: Any individual or organization for which items or services are furnished or work performed in response to defined requirements and expectations. (ANSI/ASQ E4-2004)

Congener: A member of a class of related chemical compounds (e.g., PCBs PCDDs)

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA/Superfund): the enabling legislation in 42 U.S.C. 9601-9675 et seq., as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), 42 U.S.C. 9601 et seq., to eliminate the health and environmental threats posed by hazardous waste sites.

Conformance: an affirmative indication or judgment that a product or service has met the requirements of the relevant specifications, contract, or regulation; also the state of meeting the requirements. (ANSI/ASQC E4-1994)

Consensus Standard: A standard established by a group representing a cross-section of a particular industry or trade, or a part thereof. (ANSI/ASQ ANSI/ASQ E4-2004)

Continuing calibration verification: The verification of the initial calibration that is required during the course of analysis at periodic intervals. Continuing calibration verification applies to both external standard and internal standard calibration techniques, as well as to linear and non-linear calibration models. (IDQTF)

Corrective Action: the action taken to eliminate the causes of an existing nonconformity, defect or other undesirable situation in order to prevent recurrence. (ISO 8402)

Data Quality Objectives (DQO):

Data Reduction: the process of transforming raw data by arithmetic or statistical calculations, standard curves, concentration factors, etc., and collation into a more useable form. (TNI)

Definitive Data: Analytical data of known quality, concentration, and level of uncertainty. The levels of quality and uncertainty of the analytical data are consistent with the requirements for the decision to be made. Suitable for final decision-making. (UFP-QAPP)

Demonstration of Capability: a procedure to establish the ability of the analyst to generate analytical results of acceptable accuracy and precision. (TNI)

Detection Limit: (previously referred to as Method Detection Limit –MDL) the lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. See Method Detection Limit.

Detection Limit (DL) (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%. (DoD)

Document Control: the act of ensuring that documents (and revisions thereto) are proposed, reviewed for accuracy, approved for release by authorized personnel, distributed properly and controlled to ensure use of the correct version at the location where the prescribed activity is performed. (ASQC)

Environmental Data: Any measurements or information that describe environmental processes, locations, or conditions; ecological or health effects and consequences; or the performance of environmental technology. (ANSI/ASQ E4-2004)

False Negative: An analyte incorrectly reported as absent from the sample, resulting in potential risks from their presence.

False Positive: An item incorrectly identified as present in the sample, resulting in a high reporting value for the analyte of concern.

Federal Insecticide, Fungicide and Rodenticide Act (FIFRA): the enabling legislation under 7 U.S.C. 135 *et seq.*, as amended, that empowers the EPA to register insecticides, fungicides, and rodenticides.

Federal Water Pollution Control Act (Clean Water Act, CWA): the enabling legislation under 33 U.S.C 1251 et seq., Public Law 92-50086 Stat. 8.16, that empowers EPA to set discharge limitations, write discharge permits, monitor, and bring enforcement action for non-compliance.

Field Measurement: The determination of physical, biological, or radiological properties, or chemical constituents; that are measured on-site, close in time and space to the matrices being sampled/measured, following accepted test methods. This testing is performed in the field outside of a fixed-laboratory or outside of an enclosed structure that meets the requirements of a mobile laboratory.

Field of Accreditation: Those matrix, technology/method, and analyte combinations for which the accreditation body offers accreditation. (TNI)

Finding: an assessment conclusion, referenced to a laboratory accreditation standard and supported by objective evidence that identifies a deviation from a laboratory accreditation standard requirement. (TNI)

Finding (Clarification): An assessment conclusion that identifies a condition having a significant effect on an item or activity. An assessment finding may be positive or negative and is normally accompanied by specific examples of the observed condition (ANSI/ASQ E4-2004).

Holding Times: The maximum time that can elapse between two (2) specified activities. (TNI)

The maximum times that samples may be held prior to analysis and still be considered valid or not compromised. (40 CFR part 136)

Holding Times (DoD Clarification): The time elapsed from the time of sampling to the time of extraction or analysis, or from extraction to analysis, as appropriate.

Inspection: An activity such as measuring, examining, testing, or gauging one or more characteristics of an entity and comparing the results with specified requirements in order to establish whether conformance is achieved for each characteristic. (ANSI/ASQC E4-1994)

Internal Standard: A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method. (TNI)

Isomer: One of two or more compounds, radicals, or ions that contain the same number of atoms of the same elements but differ in structural arrangement and properties. For example. hexane (C6H14) could be n-hexane, 2-methylpentane, 3-methylpentane, 2,3-dimethylbutane, 2,2-dimethylbutane.

Laboratory: Body that calibrates and/or tests. (ISO 25)

Laboratory Control Sample (however named, such as laboratory fortified blank, spiked blank or QC check sample): a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes. It is generally used to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. (TNI).

Laboratory Duplicate: aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently.

Legal Chain of Custody Protocols: procedures employed to record the possession of samples from the time of sampling until analysis and are performed at the special request of the customer. These protocols include the use of a Chain of Custody Form that documents the collection, transport, and receipt of compliance samples by the laboratory. In addition, these protocols document all handling of the samples within the laboratory. (TNI)

Limit of Detection (LOD): A laboratory's estimate of the minimum amount of an analyte in a given matrix that an analytical process can reliably detect in their facility. (TNI)

Limit of Detection (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%. (DoD)

Limits of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g. target analyte) that can be reported with a specified degree of confidence. (TNI)

Limit of Quantitation (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOO shall be set at or above the concentration of the lowest initial calibration standard. (DoD)

Management: Those individuals directly responsible and accountable for planning, implementing, and assessing work. (ANSI/ASQ E4-2004)

Management System: System to establish policy and objectives and to achieve those objectives (ISO 9000)

Matrix: The substrate of a test sample. (TNI)

Matrix Spike (spiked sample, fortified sample): A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of Target analyte concentration is available. Matrix spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency. (TNI).

Matrix Spike Duplicate (spiked sample or fortified sample duplicate): a second replicate matrix spike prepared in the laboratory and analyzed to obtain a measure of the precision of the recovery for each analyte. (TNI).

Measurement System: A test method, as implemented at a particular laboratory, and which includes the equipment used to perform the test and the operator(s). (TNI)

Method: A body of procedures and techniques for performing an activity (e.g., sampling, chemical analysis, quantification), systematically presented in the order in which they are to be executed. (TNI)

Method Detection Limit: (now referred to as Detection Limit) one way to establish a Detection Limit, defined as the minimum concentration of a substance (an analyte) that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.

Method Detection Limit (MDL) (Clarification): The MDL is one way to establish a Detection Limit, not a Limit of Detection. (DoD)

Method of Standard Additions: A set of procedures adding one or more increments of a standard solution to sample aliquots of the same size in order to overcome inherent matrix effects. The procedures encompass the extrapolation back to obtain the sample concentration. (This process is often called spiking the sample.) (Modified Skoog, Holler, and Nieman. Principles of Instrumental Analysis. 1998)

Mobile Laboratory: A portable enclosed structure with necessary and appropriate accommodation and environmental conditions for a laboratory, within which testing is performed by analysts. Examples include but are not limited to trailers, vans and skid-mounted structures configured to house testing equipment and personnel. (TNI)

National Institute of Standards and Technology (NIST): A federal agency of the US Department of Commerce's Technology Administration that is designed as the United States national metrology institute. (NMI). (TNI)

National Environmental Laboratory Accreditation Program (NELAP): The overall National Environmental Laboratory Accreditation Program of which TNI is a part.

Negative Control: Measures taken to ensure that a test, its components, or the environment do not cause undesired effects, or produce incorrect test results.

Positive Control: Measures taken to ensure that a test and/or its components are working properly and producing correct or expected results from positive test subjects.

Precision: The degree to which a set of observations or measurements of the same property, obtained under similar conditions, conform to themselves; a data quality indicator. Precision is usually expressed as standard deviation, variance or range, in either absolute or relative terms. (TNI).

Preservation: Any conditions under which a sample must be kept in order to maintain chemical and/or biological integrity prior to analysis. (TNI)

Procedure: A specified way to carry out an activity or a process. Procedures can be documented or not. (TNI)

Proficiency Testing: A means of evaluating a laboratory's performance under controlled conditions relative to a given set of criteria through analysis of unknown samples provided by an external source. (TNI)

Proficiency Testing Program: The aggregate of providing rigorously controlled and standardized environmental samples to a laboratory for analysis, reporting of results, statistical evaluation of the results and the collective demographics and results summary of all participating laboratories. (TNI)

Proficiency Test Sample (PT): A sample, the composition of which is unknown to the analyst and is provided to test whether the analyst/laboratory can produce analytical results within specified acceptance criteria. (TNI).

Protocol: A detailed written procedure for field and/or laboratory operation (e.g., sampling, analysis) which must be strictly followed. (TNI)

Quality Assurance: An integrated system of management activities involving planning, implementation, assessment, reporting and quality improvement to ensure that a process, item, or service is the type and quality needed and expected by the customer. (TNI)

Quality Assurance [Project] Plan (QAPP): A formal document describing the detailed quality control procedures by which the quality requirements defined for the data and decisions pertaining to a specific project are to be achieved. (EPA-QAD)

Quality Control: The overall system of technical activities that measures the attributes and performance of a process, item, or service against defined standards to verify that they meet the stated requirements established by the customer; operational techniques and activities that are used to fulfill requirements or quality; also the system of activities and checks used to ensure that measurement systems are maintained within prescribed limits, providing protection against "out of control" conditions and ensuring that the results are of acceptable quality. (TNI)

Quality Control Sample. A sample used to assess the performance of all or a portion of the measurement system. One of any number of samples, such as Certified Reference Materials, a quality system matrix fortified by spiking, or

actual samples fortified by spiking intended to demonstrate that a measurement system or activity is in control. (TNI)

Quality Manual: A document stating the management policies, objectives, principles, organizational structure and authority, responsibilities, accountability, and implementation of an agency, organization, or laboratory, the ensure the quality of its product and the utility of its product to the users. (TNI)

Quality Manual Clarification: Alpha Analytical refers to Quality Manual as Corporate Quality Systems Manual (CQSM). (Alpha)

Quality System: A structured and documented management system describing the policies, objectives, principles, organizational authority, responsibilities, accountability, and implementation plan of an organization for ensuring quality in its work processes, products (items), and services. The quality system provides the framework for planning, implementing, and assessing work performed by the organization and for carrying out required quality assurance (QA) and quality control (QC) activities. (TNI)

Quality System Matrix: These matrix definitions are to be used for purposes of batch and quality control requirements: (TNI)

Air and Emissions: Whole gas or vapor samples including those contained in flexible or rigid wall containers and the extracted concentrated analytes of interest from a gas or vapor that are collected with a sorbent tube, impinger solution, filter, or other device.

Aqueous: Any aqueous sample excluded from the definition of Drinking Water or Saline/Estuarine. Includes surface water, ground water effluents, and TCLP or other extracts.

Biological Tissue: Any sample of a biological origin such as fish tissue, shellfish, or plant material. Such samples shall be grouped according to origin.

Chemical Waste: A product or by-product of an industrial process that results in a matrix not previously defined.

Drinking Water: Any aqueous sample that has been designated a potable or potential potable water source.

Non-Aqueous Liquid: Any organic liquid with <15% settleable solids.

Saline/Estuarine: Any aqueous sample from an ocean or estuary, or other salt water source such as the Great Salt Lake.

Solids: Includes soils, sediments, sludges and other matrices with >15% settleable solids.

Raw Data: The documentation generated during sampling and analysis. This documentation includes, but is not limited to, field notes, electronic data, magnetic tapes, untabulated sample results, QC sample results, print outs of chromatograms, instrument outputs, and handwritten records. (TNI)

Reference Material: Material or substance one or more properties of which are sufficiently well established to be used for the calibration of an apparatus, the assessment of a measurement method, or for assigning values to materials. (TNI)

Reference Standard: Standard used for the calibration of working measurement standards in a given organization or at a given location. (TNI)

Resource Conservation and Recovery Act (RCRA): the enabling legislation under 42 USC 321 *et seq.* (1976), that gives EPA the authority to control hazardous waste from the "cradle-to-grave", including its generation, transportation, treatment, storage and disposal.

Safe Drinking Water Act (SDWA): the enabling legislation, 42 USC 300f *et seq.* (1974), (Public Law 93-523), that requires the EPA to protect the quality of drinking water in the U.S. by setting maximum allowable contaminant levels, monitoring, and enforcing violations.

Sample Tracking: procedures employed to record the possession of the samples from the time of sampling until analysis, reporting and archiving. These procedures include the use of a Chain of Custody Form that documents the collection, transport, and receipt of compliance samples to the laboratory. In addition, access to the laboratory is limited and controlled to protect the integrity of the samples.

Sampling: Activity related to obtaining a representative sample of the object of conformity assessment, according to a procedure. (TNI)**Second source calibration verification (ICV):** A standard obtained or prepared from a source independent of the source of standards for the initial calibration. Its concentration should be at or near the middle of the calibration range. It is done after the initial calibration.

Selectivity: The ability to analyze, distinguish, and determine a specific analyte or parameter from another component that may be a potential interferent. (TNI)

Sensitivity: The capability of a test method or instrument to discriminate between measurement responses representing different levels (e.g., concentrations) of a variable of interest. (TNI)

Signal to Noise Ratio: The signal carries information about the analyte, while noise is made up of extraneous information that is unwanted because it degrades the accuracy and precision of an analysis and also places a lower limit on the amount of analyte that can be detected. In most measurements, the average strength of the noise is constant and independent of the magnitude of the signal. Thus, the effect of noise on the relative error of a measurement becomes greater and greater as the quantity being measured (producing the signal) decreases in magnitude. (Skoog, Holler, and Nieman. Principles of Instrumental Analysis. 1998)

Standard: The document describing the elements of laboratory accreditation that has been developed and established within the consensus principles of standard setting and meets the approval requirements of standard adoption organizations procedures and policies. (TNI)

Standard Operating Procedures (SOPs): A written document which details the method of an operation, analysis or action whose techniques and procedures are thoroughly prescribed and which is accepted as the method for performing certain routine or repetitive tasks. (TNI)

Standard Method: a test method issued by an organization generally recognized as competent to do so.

Standardized Reference Material (SRM): a certified reference material produced by the U.S. National Institute of Standards and Technology or other equivalent organization and characterized for absolute content, independent of analytical method.

Surrogate: a substance with properties that mimic the analyte of interest. It is unlikely to be found in environment samples and is added to them for quality control purposes.

Technology: a specific arrangement of analytical instruments, detection systems, and/or preparation techniques. (TNI)

Test: A technical operation that consists of the determination of one or more characteristics or performance of a given product, material, equipment, organism, physical phenomenon, process or service according to a specified procedure. The result of a test is normally recorded in a document sometimes called a test report or a test certificate. (ISO/IEC Guide 2 - 12.1, amended)

Test Method: An adoption of a scientific technique for performing a specific measurement, as documented in a laboratory SOP or as published by a recognized authority.

Toxic Substances Control Act (TSCA): the enabling legislation in 15 USC 2601 et seq. (1976), the provides for testing, regulating, and screening all chemicals produced or imported into the United States for possible toxic effects prior to commercial manufacture.

Traceability: The ability to trace the history, application, or location of an entity by means of recorded identifications. In a calibration sense, traceability relates measuring equipment to national or international standards, primary standards, basic physical constants or properties, or reference materials. In a data collection sense, it relates calculations and data generated throughout the project back to the requirements for the quality of the project. (TNI)

Tuning: A check and/or adjustment of instrument performance for mass spectrometry as required by the method.

United States Environmental Protection Agency (EPA): the federal governmental agency with responsibility for protecting public health and safeguarding and improving the natural environment (i.e. the air, water and land) upon which human life depends. (US-EPA)

Validation: the confirmation by examination and provision of objective evidence that the particular requirements for a specific intended use are fulfilled.

Verification: confirmation by examination and provision of evidence that specified requirements have been met. (TNI)

NOTE - In connection with the management of measuring equipment, verification provides a means for checking that the deviations between values indicated by a measuring instrument and corresponding known values of a measured quantity are consistently smaller than the maximum allowable error defined in a standard, regulation or specification peculiar to the management of the measuring equipment.

The result of verification leads to a decision either to restore in service, to perform adjustments, or to repair, or to downgrade, or to declare obsolete. In all cases, it is required that a written trace of the verification performed shall be kept on the measuring

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17 Appendix B – Organization Charts

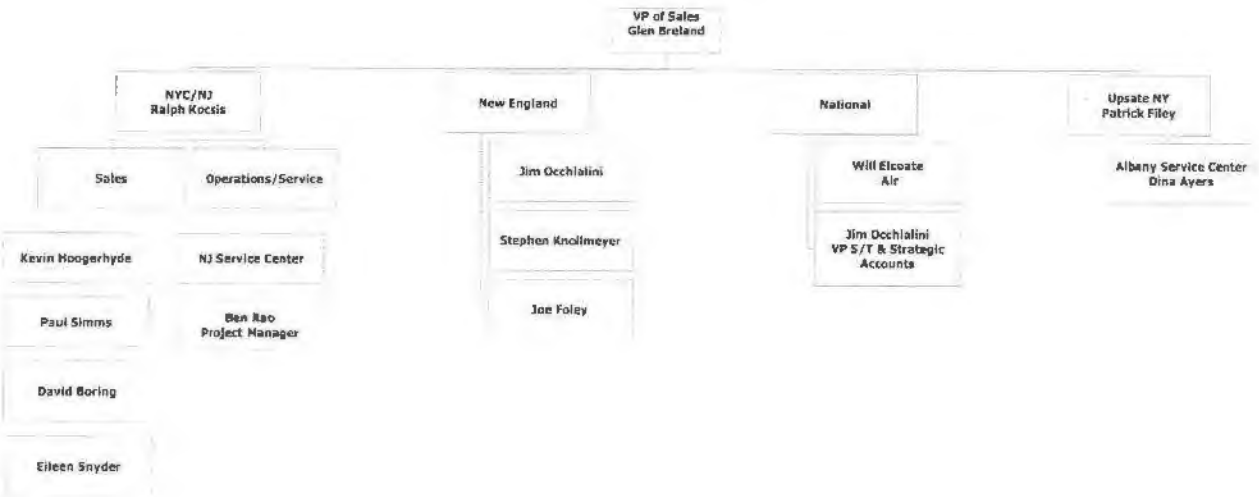
The following charts provide an overview of the organizational structure of Alpha Analytical. The chart also identifies the key personnel responsible for the listed positions. For the various laboratory areas, the individual departmental supervisors are noted. For a listing of all current key personnel, please refer to Section 18, Appendix C.

Updated 10/29/2013

Alpha Analytical
Company Organizational Chart

Updated 10/29/2013

2013 Sales Organization



Updated 10/29/2013

Alpha Analytical
Laboratory Organizational Chart
WESTBOROUGH

Christopher Ouellette
VP of Operations

Lisa Westerlind
Reporting/Sample Login Manager

Reporting

Sample Login

Jon Zygmuntowicz
Organic Extractions

Christopher Wakefield
Technical Dir.

Elena Dayn
Inorganic Manager

Wet Chemistry Analysis

Microbiology Analysis

Robert Stevenson
Metals Manager

Metals Prep

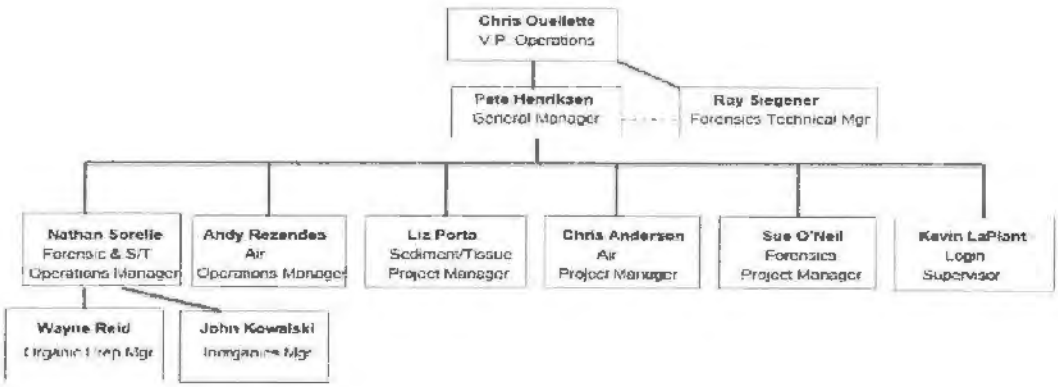
Metals Analysis

Mitchell Ostrowski
Organics Director

Semivolatile Organics Analysis

Volatile Analysis

Alpha Analytical
Laboratory Organization Chart
Mansfield



18 Appendix C – List of Key Personnel

The following is a listing of all current key personnel. If role is specific to a facility it is denoted by either Westboro or Mansfield following the position title. **Updated 7/25/2012.**

President / Sales Manager: Mark Woelfel

Director of Operations: Christopher Ouellette

Laboratory Technical Manager Westboro: Christopher Wakefield

Laboratory Technical Manager / Mansfield: Joseph Watkins

Laboratory Technical Manager- Air, Volatiles Manager, Mansfield: Andy Rezendes

Quality Assurance Officer: James C. Todaro

Quality Systems Specialists: Amy Rice, Rene Bennett, Jason Hebert

VP, Technical Projects: Ellen Collins

Human Resources Director: Cristie Plant

Vice Presidents, Technical Sales: Glen Breland, James Occhialini, Ralph Kocsis. Will Eloate, Pat Filey, Kevin Hoogerhyde

Technical Sales Reps: Paul Simms; Joe Foley; Steven Knollmeyer

Controller: Mark Johnson

A/P, Purchasing: Jennifer Walters

Credit & Collections Supervisor: Holly Palmer

Information Technology: Glenn Fitzgibbons

VP, Sales and Services: Glen Breland

Customer Services Manager, Westboro: Mary Davis

General Manager, Mansfield: Peter Henriksen

Inorganics Department Manager, Westboro: Elena Dayn

Metals Departmet Manager: Robert Stevenson

Organics Department Manager,Westboro: Mitch Ostrowski

Login Manager/ Reporting Manager Westboro Lisa Westerlind

Organic Extractions Supervisor, Westboro: John Zygmuntowicz

Forensic & S/T Operations Manager, Mansfield: Nathan Sorelle

Forensics Technical Manager, Mansfield: Ray Siegener

Equipment Maintenance: Chris Wakefield, Pat Sullivan, Greg Yogis

Environmental Health & Safety Coordinator: Jeanette Soucy

Courier Manager: Kevin Lento

Hazardous Materials Consultant: Triumvirate

19 Appendix D – Preventive Maintenance Procedures

Optimized Service-Calibration Intervals		
Equipment	**Frequency**	**Type of Calibration or Maintenance**
Balances	semiannually daily	cleaning & operations check by service technician (external) calibration verification using Class S-1 certified weights
COD Reactor	annually annually	complete operations check by service technician (external) reaction temperature verification
Conductivity Bridge	annually each use	verification of cell constant complete operations check by service technician (external) calibration verification
DI Water System	as needed monthly annually daily	complete operations check by service technician (external) Residual Chlorine check Biosuitability testing (external) pH and Conductivity check
DO Meter	annually each use	complete operations check by service technician (external) calibration against air as specified by manufacturer
Emergency/Safety Equipment	annually monthly	fire extinguishers and emergency exit lighting check eye washes, showers, fire blanket and first aid kits checked
Freezers	daily	temperature verification
Gas Chromatographs	as needed as needed beginning and end of batch and 10 to 20 samples as per method	injection port preparation; cleaning of detectors initial multi-point calibration continuing calibration verification (CCV) against initial calibration
ICP	Every other day Daily Annually Annually As needed	Change pump tubing Calibration, profile Complete operations check by service technician (external), Linear Dynamic Range determination Clean torch, clean nebulizer, clean spray chamber
Lachat analyzer	Daily As needed	Calibration, clean lines Change tubing, change O-rings
Mass Spectrometers (GC & ICP)	bi-annually as needed 12 hour or daily	change of mechanical pump oil by service technician (external) cleaning of source BFB, DFTPP or ICP-MS tune analysis followed by ICAL or CCV
Mercury Analyzer	monthly each use	clean cell and change pump windings calibration using multi-point curve
Auto-pipettes	Monthly Annually	verification of accuracy verification of precision
Microwave	Quarterly Annually	power and temperature verification RPM verification
Ovens	annually daily	complete operations check by service technician (external) temperature verification
pH Meters	annually each use	complete operations check by service technician (external) calibration using certified buffers
Refrigerators (General Use)	daily	temperature verification
Refrigerators (Sample Management)	daily	temperature verification
Spectrophotometer	Semi-annually Semi-annually daily	cleaning & operations check by service technician (external) wavelength verification (external) continuing calibration verification (CCV) against initial calibration
TCLP Rotator	annually	RPM verification
Thermometers (Mercury/Alcohol)	annually	calibration against NIST traceable thermometer (internal)
Thermometers (digital)	Quarterly	calibration against NIST traceable thermometer (external)
Thermometer (NIST Traceable)	annually	calibration and certification of conformance (external)
Turbidity meter	annually each use	cleaning & operations check by service technician (external) calibration using formazin
Weights (Class S-1)	annually	service/calibration and certification of conformance (external)

20 Appendix E – List of Analytical Methods

Certificate/Approval Program Summary

Last revised October 1, 2013 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. ***NELAP Accredited Solid Waste/Soil.***

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP) 504.1, Ethylene Dibromide (EDB) 504.1, 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223, Enumeration and P/A), E. Coli. – Colilert (SM9223, Enumeration and P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform-EC Medium (SM 9221E).

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), CT- Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), E. Coli – Colilert (SM9223 Enumeration), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E), Enterococcus - Enterolert.

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, CT-Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Dalapon, Volatile Organics (SW 8260), Acid Extractables (Phenols) (SW 8270), Benzidines (SW 8270), Phthalates (SW 8270), Nitrosamines (SW 8270), Nitroaromatics & Cyclic Ketones (SW 8270), PAHs (SW 8270), Haloethers (SW 8270), Chlorinated Hydrocarbons (SW 8270).)

State of Illinois Certificate/Lab ID: 003155. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM2120B, 2320B, 2510B, 2540C, SM4500CN-CE, 4500F-C, 4500H-B, 4500NO3-F, 5310C, EPA 200.7, 200.8, 245.1, 300.0. Organic Parameters: EPA 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: SM2120B, 2310B, 2320B, 2340B, 2510B, 2540B,

2540C, 2540D, SM4500CL-E, 4500CN-E, 4500F-C, 4500H-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-E, 4500S-D, 4500SO3-B, 5210B, 5220D, 5310C, 5540C, EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1. Organic Parameters: EPA 608, 624, 625.)

Hazardous and Solid Waste (Inorganic Parameters: EPA 1010A, 1030, 1311, 1312, 6010C, 6020A, 7196A, 7470A, 7471B, 9012B, 9014, 9038, 9040C, 9045D, 9050A, 9065, 9251. Organic Parameters: 8011 (NPW only), 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8315A, 8330.)

Maine Department of Human Services Certificate/Lab ID: 2009024.
Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 353.2, SM2120B, 2130B, 2320B, 2510C, 2540C, 4500Cl-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, 5310C, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 8315A, 9010C, SM2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500Cl-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-C, 4500NH3-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500P-B, 4500P-E, 4500S2-D, 4500SO3-B, 5540C, 5210B, 5220D, 5310C, 9010B, 9030B, 9040C, 7470A, 7196A, 2340B, EPA 200.7, 6010C, 200.8, 6020A, 245.1, 1311, 1312, 3005A, Enterolert, 9223B, 9222D. Organic Parameters: 608, 624, 625, 8011, 8081B, 8082A, 8330, 8151A, 8260C, 8270D, 3510C, 3630C, 5030B, ME-DRO, ME-GRO, MA-EPH, MA-VPH.)

Solid Waste/Soil (Inorganic Parameters: 9010B, 9012A, 9014, 9040B, 9045C, 6010C, 6020A, 7471B, 7196A, 9050A, 1010, 1030, 9065, 1311, 1312, 3005A, 3050B, 9038, 9251. Organic Parameters: ME-DRO, ME-GRO, MA-EPH, MA-VPH, 8260C, 8270D, 8330, 8151A, 8081B, 8082A, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5035.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.
Drinking Water (Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl) (EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate); (EPA 353.2 for: Nitrate-N, Nitrite-N); (SM4500NO3-F for: Nitrate-N and Nitrite-N); 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, 2320B, SM2540C, SM4500H-B. Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics); (504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), EPA 332. Microbiology Parameters: SM9215B; ENZ. SUB. SM9223, ColilertQT SM9223B; MF-SM9222D.)

Non-Potable Water (Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn); (EPA 200.7 for: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn); 245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH. (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.
Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics),(608 for: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs-Water), (EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables). 600/4-81-045-PCB-Oil. Microbiology Parameters: (ColilertQT SM9223B; Enterolert-QT: SM9222D-MF.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM 9222B, 9223B, 9215B, EPA 200.7, 200.8, 300.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 332.0. Organic Parameters: 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 3005A, 200.7, 200.8, 245.1, SW-846 6010C, 6020A, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 350.2, 351.1, 353.2, 410.4, 420.1, 426C, 1664A, SW-846 9010B, 9010C, 9030, 9040B, 9040C, SM2120B, 2310B, 2320B, 2340B, 2540B, 2540D, 4500H+B, 4500CL-E, 4500CN-E, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500P-E, 4500-S2-D, 4500SO3-B, 5210B, 5220D, 2510B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D, 3060A. Organic Parameters: SW-846 3510C, 3630C, 5030B, 8260C, 8270D, 8330, EPA 624, 625, 608, SW-846 8082A, 8081B, 8015C, 8151A, 8330, 8270D-SIM.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010C, 6020A, 7196A, 7471B, 1010, 1010A, 1030, 9010C, 9012B, 9014, 9030B, 9040C, 9045C, 9045D, 9050, 9065, 9251, 1311, 1312, 3005A, 3050B, 3060A. Organic Parameters: SW-846 3540C, 3546, 3050B, 3580A, 3620D, 3630C, 5030B, 5035, 8260C, 8270D, 8270D-SIM, 8330, 8151A, 8015B, 8015C, 8082A, 8081B.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2064. ***NELAP Accredited.***
Drinking Water (Organic Parameters: **EPA 524.2:** Di-isopropyl ether (DIPE), Ethyl-t-butyl ether (ETBE), Tert-amyl methyl ether (TAME)).

Non-Potable Water (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene. **EPA 8015C(M):** TPH.)

Solid & Chemical Materials (Organic Parameters: **EPA 8260C:** 1,3,5-Trichlorobenzene.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500CN-CE, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 200.8, 245.1, 2540C, SM2120B, 2320B, 2510B, 5310C, SM4500H-B. Organic Parameters: EPA 332, 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500Cl-E, EPA 300.0, SM2120B, 2340B, SM4500F-BC, EPA 200.7, 200.8, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310C, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, 9222D, 9221B, 9221C, 9221E, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, 4500SO4-E, EPA 350.1, 350.2, SW-846 1312, 7470A, 5540C, SM4500H-B, 4500SO3-B, SM3500Cr-D, 4500CN-CE, EPA 245.1, SW-846 9040B, 9040C, 3005A, 3015, EPA 6010B, 6010C, 6020, 6020A, 7196A, 3060A, SW-846 9010C, 9030B. Organic Parameters: SW-846 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3510C, EPA 608, 624, 625, SW-846 3630C, 5030B, 5030C, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 1,4-Dioxane by NJ Modified 8270, 8015B, NJ EPH.)

Solid & Chemical Materials (Inorganic Parameters: SW-846, 6010B, 6010C, 6020, 6020A, 7196A, 3060A, 9030B, 1010, 1010A, 1030, 1311, 1312, 3005A, 3050B, 7471A, 7471B, 9010C, 9012B, 9014, 9038, 9040B, 9040C, 9045C, 9045D, 9050A, 9065, 9251. Organic Parameters: SW-846 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8330, 8260B, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 3540C, 3546, 3580A, 3620C, 3630C, 5030B, 5030C, 5035L, 5035H, NJ EPH.)

New York Department of Health Certificate/Lab ID: 11148. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.1, SM5310C, EPA 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500NO3-F, 2540C, SM 2510B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, 5310C, EPA 410.4, SM5220D, 2310B, 2320B, EPA 200.7, 300.0, SM4500CL-E, 4500F-C, SM15 426C, EPA 350.1, SM4500NH3-BH, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2340B, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010C, 6020A, EPA 7196A, SM3500Cr-D,

EPA 245.1, 7470A, SM2120B, 4500CN-CE, EPA 1664A, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 8315A, 3005A, 9010C, 9030B. Organic Parameters: EPA 624, 8260C, 8270D, 8270D-SIM, 625, 608, 8081B, 8151A, 8330A, 8082A, EPA 3510C, 5030B, 5030C, 8015C, 8011.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010A, 1030, EPA 6010C, 6020A, 7196A, 7471B, 8315A, 9012B, 9014, 9065, 9050A, 9038, 9251, EPA 1311, 1312, 3005A, 3050B, 9010C, 9030B, 9040C, 9045D. Organic Parameters: EPA 8260C, 8270D, 8270D-SIM, 8015C, 8081B, 8151A, 8330A, 8082A, 3540C, 3546, 3580A, 5035A-H, 5035A-L.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. (Inorganic Parameters: SM2310B, 2320B, 4500Cl-E, 4500Cn-E, 9012B, 9014, Lachat 10-204-00-1-X, 1010A, 1030, 4500NO3-F, 353.2, 4500P-E, 4500SO4-E, 300.0, 4500S-D, 5310B, 5310C, 6010C, 6020A, 200.7, 200.8, 3500Cr-B, 7196A, 245.1, 7470A, 7471B, 1311,1312. Organic Parameters: 608, 8081B, 8082A, 624, 8260B, 625, 8270D, 8151A, 8015C, 504.1, MA-EPH, MA-VPH.)

Drinking Water Program Certificate/Lab ID: 25700. (Inorganic Parameters: Chloride EPA 300.0. Organic Parameters: 524.2)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: 200.7, 200.8, 300.0, 332.0, 2120B, 2320B, 2510B, 2540C, 4500-CN-CE, 4500F-C, 4500H+-B, 4500NO3-F, 5310C. Organic Parameters: EPA 524.2, 504.1)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1312, 3005A,3015, 3060A, 200.7, 200.8, 410.4, 1664A, SM2540D, 5210B, 5220D, 4500-P.BE, 245.1, 300.0, 350.1, 350.2, 351.1, 353.2, 420.1, 6010C, 6020A, 7196A, 7470A, 9030B, 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 3500Cr-D, 426C, 4500CN-CE, 4500Cl-E, 4500F-B, 4500F-C, 4500H+-B, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500S-D, 4500SO3-B, 5310BCD, 5540C, 9010C, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 625, 624, 608, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, 8015C, NJ-EPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 350.1, 1010, 1030, 1311, 1312, 3005A, 3050B, 3060A, 6010C, 6020A, 7196A, 7471B, 9010C, 9012B, 9014, 9040B, 9045D, 9050A, 9065, SM 4500NH3-BH, 9030B, 9038, 9251. Organic Parameters: 3540C, 3546, 3580A, 3620C, 3630C, 5035, 8015C, 8081B, 8082A, 8151A, 8260C, 8270D, 8270D-SIM, 8330, NJ-EPH.)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. ***NELAP Accredited via NJ-DEP.***
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NJ-DEP Certificate for Potable and Non-Potable Water.

Texas Commisson on Environmental Quality Certificate/Lab ID: T104704476. ***NELAP Accredited.***
Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S2¯D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID: 460195. ***NELAP Accredited.***
Drinking Water (Inorganic Parameters: EPA 200.7, 200.8, 300.0, 2510B, 2120B, 2540C, 4500CN-CE 245.1, 2320B, 4500F-C, 4500NO3-F, 4500H+B, 5310C. Organic Parameters: EPA 504.1, 524.2.)

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 200.7, 200.8, 245.1, 300.0, 350.1, 351.1, 351.2, 3005A, 3015, 1312, 6010B, 6010C, 3060A, 353.2, 420.1, 2340B, 6020, 6020A, SM4500S-D, SM4500-CN-CE, Lachat 10-204-00-1-X, 7196A, 7470A, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 3500Cr-D, 426C, 4500Cl-E, 4500F-B, 4500F-C, 4500NH3-H, 4500NO2-B, 4500NO3-F, 4500 SO3-B, 4500H-B, 4500PE, 510AC, 5210B, 5310B 5310C, 5540C, 9010Cm 9030B, 9040C. Organic Parameters: EPA 3510C, 3630C, 5030B, 8260B, 608, 624, 625, 8011, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8260C, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330,)

Solid & Hazardous Waste (Inorganic Parameters, EPA 1010A, 1030, 3060A, 3050B, 1311, 1312, 6010B, 6010C, 6020, , 7196A, 7471A, 7471B, 6020A, 9010C, 9012B, 9030B, 9014, 9038, 9040C, 9045D, 9251, 9050A, 9065. Organic Parameters: EPA 5030B, 5035, 3540C, 3546, 3550B, 3580A, 3620C, 3630C, 6020A, 8260B, 8260C, 8015B, 8015C, 8081A, 8081B, 8082, 8082A, 8151A, 8270C, 8270D, 8270C-SIM, 8270D-SIM, 8330.)

Department of Defense, L-A-B Certificate/Lab ID: L2217.
Drinking Water (Inorganic Parameters, SM 4500H-B, Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010C, 6020A, 245.1, 7470A, 9040B, 9010B, 180.1, 300.0, 332.0, 6860, 351.1, 353.2, 9060, 1664A, SM 4500CN-E, 4500H-B, 4500Norg-C, 4500NO3-F, 5310C, 2130B, 2320B, 2340B, 2540C, 5540C, 3005A, 3015, 9056, 7196A, 3500-Cr-D. Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A, 8082A, 8081B, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters, EPA 200.7, 6010C, 6020A, 7471A, 6860, 1311, 1312, 3050B, 7196A, 9040B, 9045C, 9010C, 9012B, 9251, SM3500-CR-D, 4500CN-CE, 2540G, Organic Parameters: EPA 8015C, 8151A, 8260C, 8270D, 8270D-SIM, 8330A/B-prep, 8082A, 8081B, 3540C, 3546, 3580A, 5035A, MassDEP EPH, MassDEP VPH.)

The following analytes are not included in our current NELAP/TNI Scope of Accreditation:
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether. **EPA 8260B:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8260 Non-potable water matrix:** Iodomethane (methyl iodide), Methyl methacrylate. **EPA 8260 Soil matrix:** Tert-amyl methyl ether (TAME), Diisopropyl ether (DIPE), Azobenzene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnapthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine. **EPA 625:** 4-Chloroanifine, 4-Methylphenol. Total Phosphorus in a soil matrix, TKN in a soil matrix, NO2 in a soil matrix, NO3 in a soil matrix. **EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

Certificate/Approval Program Summary

Last revised October 1 2013 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable). Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Titanium, Vanadium, Zinc, Total Organic Carbon, Corrosivity, TCLP 1311, SPLP 1312. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, SM2540G.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 245.7, 1631E, 3020A, 6020A, 7470A, 9040, 9050A, SM2320B, 2540D, 2540G, 4500H-B, Organic Parameters: EPA 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 5030B, 8015D, 3570, 8081B, 8082A, 8260B, 8270C, 8270D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 1311, 3050B, 3051A, 3060A, 6020A, 7196A, 7470A, 7471B, 7474, 9040B, 9045C, 9060. Organic Parameters: EPA 3540C, 3570, 3580A, 3630C, 3640A, 3660, 3665A, 5035, 8015D, 8081B, 8082A, 8260B, 8270C, 8270D.)

Biological Tissue (Inorganic Parameters: EPA 6020A. Organic Parameters: EPA 3570, 3510C, 3610B, 3630C, 3640A, 8270C, 8270D.)

Air & Emissions (EPA TO-15.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: EPA 180.1, 1631E, 6020A, 7470A, 9040B, 9050A, SM2540D, 2540G, 4500H+B, 2320B, 3020A, . Organic Parameters: EPA 3510C, 3630C, 3640A, 3660B, 8081B, 8082A, 8270C, 8270D, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 3050B, 3051A, 6020A, 7471B, 9040B, 9045C. Organic Parameters: SW-846 3540C, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8015D, 8082A, 8081B.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3020A, SM2320B, SM2540D, 2540G, 4500H-B, EPA 180.1, 1631E, SW-846 7470A, 9040C, 6020A, 9050A. Organic Parameters: SW-846 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D)

Solid & Chemical Materials (Inorganic Parameters: SW-846 1311, 1312, 3050B, 3051A, 6020A, 7471B, 7474, 9040B, 9040C, 9045C, 9045D, 9060, 9060A. Organic Parameters: SW-846 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8081B, 8082A, 8270C, 8270D, 8015D.)

Atmospheric Organic Parameters (EPA 3C, TO-15, TO-10A, TO-13A-SIM.)

Biological Tissue (Inorganic Parameters: SW-846 6020A. Organic Parameters: SW-846 8270C, 8270D, 3510C, 3570, 3610C, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters: SM2320B, SM2540D, 6020A, 1631E, 7470A, 9050A, EPA 180.1, 3020A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 3510C.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 6020A, 7471B, 7474, 9040C, 9045D, 9060A. Organic Parameters: EPA 8270C, 8270D, 8081B, 8082A, 1311, 3050B, 3580A, 3570, 3051A.)

Air & Emissions (EPA TO-15, TO-10A.)

Pennsylvania Certificate/Lab ID: 68-02089 ***NELAP Accredited***

Non-Potable Water (Inorganic Parameters: 1312, 1631E, 180.1, 3020A, 6020A, 7470A, 9040B, 9050A, 2320B, 2540D, 2540G, SM4500H+-B. Organic Parameters: 3510C, 3580A, 3630C, 3640A, 3660B, 3665A, 8015D, 8081B, 8082A, 8270C, 8270D .)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3051A, 6020A, 7471B, 7474 9040B, 9045C, 9060. Organic Parameters: EPA3050B, 3540C, 3570, 3580A, 3630C, 3640A, 3660B, 3665A, 8270C, 8270D, 8081B, 8015D, 8082A.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. ***NELAP Accredited via NJ-DEP.***

Refer to NJ-DEP Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. ***NELAP Accredited.***

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

Virginia Division of Consolidated Laboratory Services Certificate/Lab ID:460194. ***NELAP Accredited.***

Non-Potable Water (Inorganic Parameters:EPA 3020A, 6020A, 245.7, 9040B. Organic Parameters: EPA 3510C, 3640A, 3660B, 3665A, 8270C, 8270D, 8082A, 8081B, 8015D.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020A,7470A,7471B,9040B,9045C,3050B,3051, 9060. Organic Parameters: EPA 3540C, 3580A, 3630C 3640A, 3660B, 3665A, 3570, 8270C, 8270D, 8081B, 8082A, 8015D.)

Washington State Department of Ecology Certificate/Lab ID: C954. *Non-Potable Water* (Inorganic Parameters: SM2540D, 180.1, 1631E.)

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 7474, 9045C, 9050A, 9060. Organic Parameters: EPA 8081, 8082, 8015, 8270.)

U.S. Army Corps of Engineers

Department of Defense, L-A-B Certificate/Lab ID: L2217.01.

Non-Potable Water (Inorganic Parameters: EPA 6020A, SM4500H-B. Organic Parameters: 3020A, 3510C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH, 8082A, 8081B, 8015D-SHC, 8015D.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 3050B, 6020A, 7471A, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580A, 3570, 3540C, 8270C, 8270D, 8270C-ALK-PAH, 8270D-ALK-PAH 8082A, 8081B, 8015D-SHC, 8015D.

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP
Certification is not available by NELAP for the following analytes: **8270C:** Biphenyl. **TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 2-Methylnaphthalene, 1-Methylnaphthalene.

21 Appendix F – Alpha Code of Ethics Agreement

Alpha Analytical, Inc.
Ethical Conduct and Data Integrity Agreement

A. ***Personal Pledge:*** I understand that I am charged with meeting the highest degree of ethical standards in performing all of my duties and responsibilities and pledge to only report data, test results and conclusions that are accurate, precise and of the highest quality.

B. ***Protocol Pledges:*** I agree to adhere to the following protocols and principles of ethical conduct in fulfilling my work assignments at Alpha:

1. All work assigned to me will be performed using Standard Operating Procedures (SOPs) that are based on EPA approved methods or Alpha methods.

2. I will only report results or data that match the actual results observed or measured.

3. I will not intentionally nor improperly manipulate or falsify data in any manner, including both sample and QC data. Furthermore, I will not modify data values unless the modification can be technically justified through a measurable analytical process or method acceptable to Alpha. All such modifications will be clearly and thoroughly documented in the appropriate laboratory notebooks and raw data and include my initials or signature and date.

4. I will not intentionally report dates and times of analyses that are not the actual dates and times the analyses were conducted.

5. I will not intentionally represent another individual's work as my own or represent my work as someone else's.

6. I will not make false statements to or seek to otherwise deceive Alpha staff leaders or customers. I will not, through acts of commission, omission, erasure or destruction, improperly report measurements, standards results, data, test results or conclusions.

C. ***Guardian Pledge:***

1. I will not condone any accidental or intentional reporting of unauthentic data by other Alpha staff and will immediately report such occurrences to my supervisor, the QA Officer, the Laboratory Technical Manager or corporate leadership. I understand that failure to report such occurrences may subject me to immediate discipline, including termination.

2. If a supervisor or other member of the Alpha leadership group requests me to engage in, or perform an activity that I feel is compromising data validity or quality, I have the right to not comply with the request and appeal this action through Alpha's QA Officer, senior leadership or corporate officers, including the President of the company.

3. I understand that, if my job includes supervisory responsibilities, then I will not instruct, request or direct any subordinate to perform any laboratory practice that is unethical or improper. Also, I will not discourage, intimidate or inhibit a staff member who may choose to appropriately appeal my supervisory instruction, request or directive that may be perceived to be improper, nor retaliate against those who do so.

D. ***Agreement Signature:*** I have read and fully understand all provisions of the *Alpha Analytical Ethical Conduct and Data Integrity Agreement*. I further realize and acknowledge my responsibility as an Alpha staff member to follow these standards. I clearly understand that adherence to these standards is a requirement of continued employment at Alpha.

_____
Employee Signature

_____
Printed Name

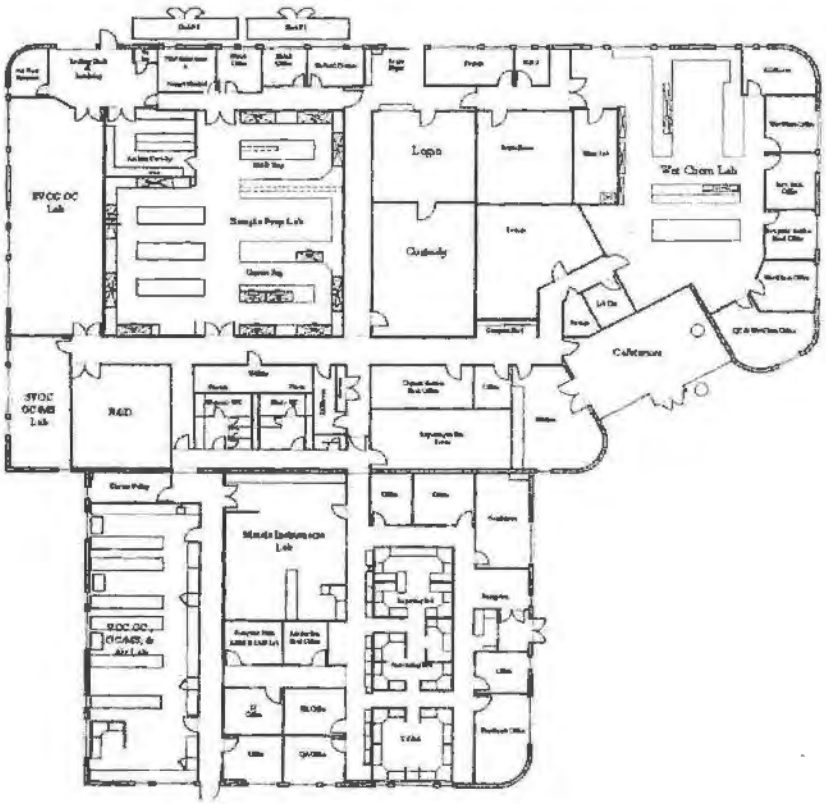
_____
Date

Review Requirements
The *Ethical Conduct and Data Integrity Agreement* must be signed at the time of hire (or within 2 weeks of a staff member's receipt of this policy). Furthermore, each staff member will be required to review and sign this agreement every year. Such signature is a condition of continued employment at Alpha. Failure to comply with these requirements will result in immediate discharge from Alpha employment. This agreement is not an employment contract and does not modify in any manner the company's *Employment-at-Will* Agreement.

22 Appendix G – Floor Plan Westboro Facility

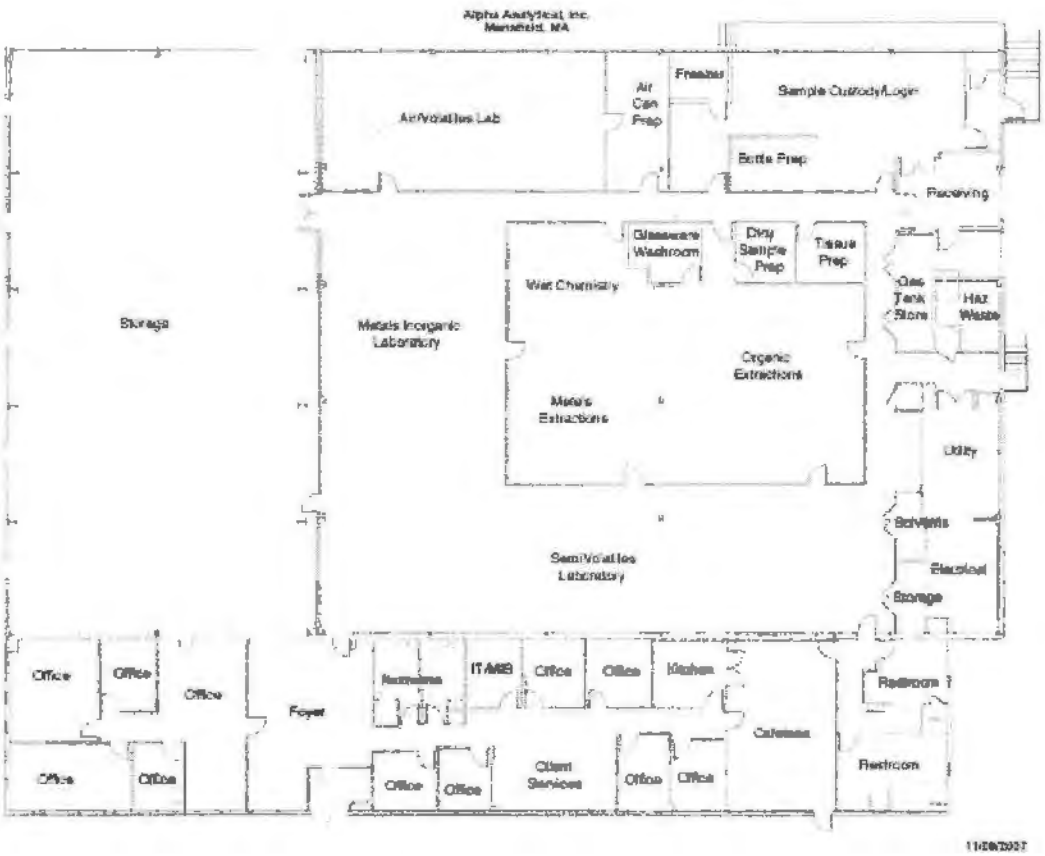
Alpha Woods Hole Labs

FIGURE II
FLOOR PLAN



Form No.: 14-02 05/30/2006 Page F2

23 Appendix H– Floor Plan Mansfield Facility



24 Appendix I – Job Titles and Requirements

TITLE*	REQUIRED EDUCATION**	MINIMUM REQUIRED ENVIRONMENTAL LAB EXPERIENCE	MINIMUM REQUIRED SKILLS***
Technical Manager (Director) Organic Laboratory	BS or BA in Chemical, Environmental, or Biological Science; including minimum 24 credit hours in Chemistry. Masters or Doctoral degree in one of above disciplines may be susbsituted for 1 year of experience.	Two (2) years with the analysis of organic analytes in an environmental laboratory	1. Advanced technical knowledge of all analytical methods performed by the lab 2. Advanced technical instrumentation/lab systems knowledge 3. Knowledge of safe laboratory practices, OSHA regs and emergency protocols 4. Experience with and understanding of LIMS 5. Experience with method development and implementation 6. Experience monitoring standards of performance in Quality Control and Quality Assurance
Technical Manager (Director) Inorganic Laboratory	BS or BA in Chemical, Environmental, or Biological Science; including minimum 16 credit hours in Chemistry. Masters or Doctoral degree in one of above disciplines may be substituted for 1 year of experience.	Two (2) years with the analysis of inorganic analytes in an environmental laboratory	1. Advanced technical knowledge of all analytical methods performed by the lab 2. Advanced technical instrumentation/lab systems knowledge 3. Knowledge of safe laboratory practices, OSHA regs and emergency protocols 4. Experience with and understanding of LIMS 5. Experience with method development and implementation 6. Experience monitoring standards of performance in Quality Control and Quality Assurance
Technical Manager (Director) Microbiology Laboratory	BS or BA in Chemical, Environmental, or Biological Science; including minimum 16 credit hours in the Biological Sciences, including at least one course having microbiology as a major component. Masters or Doctoral degree in one of above disciplines may be substituted for 1 year of experience.	Two (2) years with the analysis of microbiological analytes in an environmental laboratory	1. Advanced technical knowledge of all analytical methods performed by the lab 2. Advanced technical instrumentation/lab systems knowledge 3. Knowledge of safe laboratory practices, OSHA regs and emergency protocols 4. Experience with and understanding of LIMS 5. Experience with method development and implementation 6. Experience monitoring standards of performance in Quality Control and Quality Assurance
Quality Assurance Officer	BS/BA in Chemistry, Biology, Environmental or related Science	Two (2) years Environmental Laboratory Experience	1. Advanced technical knowledge of all analytical methods performed by the lab 2. Knowledgeable in Federal, State and DOD Programs (NELAC, etc.) 3. Able to develop QA/QC policies and certification requirements 4. Able to develop training programs for quality procedures 5. Documented training and/or experience in QA and QA procedures 6. Knowledge of safe laboratory practices and emergency protocols

TITLE*	REQUIRED EDUCATION**	MINIMUM REQUIRED ENVIRONMENTAL LAB EXPERIENCE	MINIMUM REQUIRED SKILLS***
Laboratory Coordinator	High School Diploma; Associates or BS/BA in Chemistry, Biology or Environmental or related Science preferred	1 year +	1. Knowledge of safe laboratory practices and emergency protocols 2. Proficient in all methods and SOP's within their department 3. Experience with and understanding of LIMS 4. Proven ability to meet TAT (turn around times)
Quality Systems Specialist	BS/BA Chemistry	2 years +	1. General knowledge of laboratory methods 2. Experience with and understanding of LIMS 3. Strong attention to detail 4. Strong oral/written communication and organizational skills 5. Knowledge of QA/QC policies and certification requirements
EH&S Coordinator	High School or Equivalent	2 years +	1. General knowledge of lab operations 2. Detailed knowledge of safe lab practices and emergency protocols 3. Hazardous Waste Management and RCRA Regulation Training 4. DOT Hazardous Materials Regulations Training 5. OSHA Compliance Training 6. Able to develop and deliver new hire and ongoing safety training programs
Lab Technician I	HS or Equivalent	0-1 years. 1+ years preferred	1. Knowledge of safe laboratory practices 2. Able to follow direction and Standard Operating Procedures (SOP's) 3. Familiarity with standard and reagent preparation 4. Knowledgeable in using volumetric pipettes and glassware 5. Strong oral/written communication and organizational skills
Lab Technician II	HS or Equivalent	2-4 years	1. All skills of Lab Technician I 2. Trained in majority of technician skills relative to department
Lab Technician III	HS or Equivalent	5 years +	1. All skills of Lab Technician II 2. Experienced in training staff
Lab Technician/Chemist I	BS/BA in Chemistry, Biology, Environmental or related Science	0-1 years	1. Knowledge of safe laboratory practices 2. Able to follow direction and Standard Operating Procedures (SOP's) 3. Familiarity with standard and reagent preparation 4. Knowledgeable in using volumetric pipettes and glassware 5. Strong oral/written communication and organizational skills
Lab Technician/Chemist II	BS/BA in Chemistry, Biology, Environmental or related Science	2-4 years	1. All skills of Chemist I 2. Trained in majority of department methods

TITLE*	REQUIRED EDUCATION**	MINIMUM REQUIRED ENVIRONMENTAL LAB EXPERIENCE	MINIMUM REQUIRED SKILLS***
Lab Technician/Chemist III	BS/BA in Chemistry, Biology, Environmental or related Science	5 years +	1. All skills of Chemist II 2. Experienced in training staff
Analyst I	HS or Equivalent	0-1 years	1. Knowledge of safe laboratory practices 2. Able to follow direction and Standard Operating Procedures (SOP's) 3. Experienced with sample handling, preparation and/or extraction
Analyst II	HS or Equivalent	2-4 years	1. All skills of Analyst I 2. Experienced in machine operation, maintenance and troubleshooting
Analyst III	HS or Equivalent	5 years +	1. All skills of Analyst II 2. Experienced in data review and reporting 3. Experienced in training staff
Analytical Chemist I	BS/BA in Chemistry, Biology, Environmental or related Science	6 mos-1 year	1. Knowledge of safe laboratory practices 2. Able to follow direction and Standard Operating Procedures (SOP's) 3. Experienced with sample handling, preparation and/or extraction
Analytical Chemist II	BS/BA in Chemistry, Biology, Environmental or related Science	2-4 years	1. All skills of Analytical Chemist I 2. Experienced in machine operation, maintenance and troubleshooting
Analytical Chemist III	BS/BA in Chemistry, Biology, or Environmental or related Science	5 years +	1. All skills of Analytical Chemist II 2. Experienced in data review and reporting 3. Experienced in training staff
Data Deliverable Specialist I	HS Diploma, BS/BA or Associates preferred	0-1 years	1. Introductory knowledge of laboratory methods 2.Able to follow direction and Standard Operating Procedures (SOP's) 3. Working knowledge of Adobe Acrobat, Microsoft Word, Excel 4. Good writing and typing skills
Data Deliverable Specialist II	HS Diploma, BS/BA or Associates preferred	2-4 years	1. All skills of Data Deliverable Specialist I 2. General knowledge of laboratory methods 3. Understanding of data review/ data reporting process 4. Experience with and understanding of LIMS and electronic data deliverables

TITLE*	REQUIRED EDUCATION**	MINIMUM REQUIRED ENVIRONMENTAL LAB EXPERIENCE	MINIMUM REQUIRED SKILLS***
Data Deliverable Specialist III	HS Diploma, BS/BA or Associates preferred	5 years +	1. All skills of Data Deliverable Specialist II 2. Intermediate/advanced knowledge of laboratory methods 3. Able to perform report review 4. Experience with and understanding of LIMS and electronic data deliverables 5. Able to initiate re-work where necessary
Laboratory Intern	2 Semesters of Chemistry, Biology or Environmental Science	None; Lab work study experience preferred	1. Knowledge of safe laboratory practices 2. Able to follow direction and Standard Operating Procedures

KEY

* Internal terms only. Full title would have "Environmental Laboratory" and specific department preceding it.

** Substitutions: Equivalent knowledge may be substituted for a degree in some instances.

*** Not meant to be an exhaustive list of skill requirements. For full list of skills consult the "Laboratory Skills" list. Actual Job Duties and Responsibilities can be found within job descriptions for each position.

25 Appendix J – Standard Operating Procedures

WESTBORO SOP #	Title
1723	Customer Service
1724	Quote/Contract Procedure
1725	Project Communication Form Generation
1727	Accounts Payable Invoice Processing
1728	Waste Management and Disposal
1730	Balance Calibration Check
1733	Thermometer Calibration
1735	Analytical Guidelines for Method Validation
1737	Inorganics Glassware Cleaning and Handling
1738	Water Quality Monitoring
1745	Reagent, Solvent and Standard Control
1747	Datalogger Operation
1948	Separatory Funnel Liquid-Liquid Extraction – EPA 3510C
1953	Organic Extraction Glassware Cleaning & Handling
1954	Soxhlet Extraction – EPA 3540C
1955	Sulfur Cleanup – EPA 3660A
1956	Oil and Waste Dilution – EPA 3580A
1959	Microwave Extraction – EPA 3546
1960	Sulfuric Acid Cleanup – EPA 3665A
1962	Florisil Cleanup
1963	Fractionation Cleanup
1964	Preparation of Samples for Chlorinated Herbicides
2022	Volatile Organic Compounds – EPA 624
2107	Volatile Organic Compounds – EPA 524.2
2108	Volatile Organic Compounds – EPA 8260C
2109	Polynuclear Aromatic Hydrocarbons (PAHs) by SIM – EPA 8270D (modified)
2110	Semivolatile Organics by GC/MS – EPA 625

2111	Semivolatile Organics by GC/MS – EPA 8270D
2112	TCLP/SPLP Extraction - Volatile Organics SW-846 Method 1311/1312
2113	EDB & DBCP in Water by Microextraction & Gas Chromatography – EPA 504.1, 8011
2116	Organochlorine Pesticides by Capillary Column GC – EPA 8081B
2119	Extractable Petroleum Hydrocarbons – MADEP
2120	Volatile Petroleum Hydrocarbons – MADEP
2122	Organochlorine Pesticides & PCBs by Capillary Column GC – EPA 608
2123	Polychlorinated Biphenyls in Oil – EPA 600/4-81-045
2125	TPH-Diesel Range Organics, Maine 4.1.25, EPA 8015C (Modified)
2126	TPH- Gasoline Range Organics, Maine 4.2.17, EPA 8015C (Modified)
2127	CT-ETPH
2128	Herbicides by 8151A
2129	PCBs by Capillary Column Gas Chromatography - EPA 8082A
2131	New Jersey EPH Method
2132	Microwave Assisted Acid Digestion of Aqueous Samples & Extracts – EPA 3015
2133	TCLP Extraction Metals and Semi-Volatile Organics – SW-846 Method 1311
2134	Hot Block Digestion for Aqueous Samples EPA 3005A
2135	SPLP Extraction Inorganics and Semivolatile Organics, EPA 1312
2136	Hot Plate Digestion of Sediments, Sludges and Soils, EPA 3050B
2144	Metals by Inductively Coupled Plasma – EPA 6010C
2145	Mercury in Liquid Waste by Cold-Vapor Atomic Absorption – EPA 7470A
2146	Mercury in Soil or Solid Waste by Cold-Vapor AA – EPA 7471B
2149	Metals by Inductively Coupled Plasma – EPA 200.7
2153	Mercury in Water by Automated Cold-Vapor Atomic Absorption – EPA 245.1
2156	Metals by Inductively Coupled Plasma-Mass Spectrometry – EPA 6020A
2159	Metals by Inductively Coupled Plasma-Mass Spectrometry – EPA 200.8
2161	Fecal Coliform by Membrane Filtration – SM 9222D
2163	Fecal Coliform by Multiple Tube Fermentation – SM 9221E
2191	Heterotrophic Plate Count – SM 9215B
2192	Total Coliform/E.Coli – Presence/Absence (Colilert) – SM 9223B

2193	Total Coliform by Membrane Filtration – SM 9222B
2194	Total Coliform by Multiple Tube Fermentation – SM 9221B
2195	Chlorophyll A – SM 10200H
2196	E. Coli – Membrane Filtration
2197	Chlorophyll A – EPA 446
2198	Air Density Monitoring
2199	Inhibitory Residue Test
2200	Enterococcus – MF
2201	Total Coliform, E.Coli & Enterococcus by Quantification Methods (Quanti Tray)
2202	pH, Liquid Samples – EPA 9040C, SM 4500H$^+$-B
2203	pH, Soil & Waste Samples – EPA 9045D
2204	Hexavalent Chromium – EPA 7196A, SM 3500Cr-D
2205	Biological Oxygen Demand – SM 5210B
2206	Ammonia Nitrogen –SM 4500NH_3-BH, Lachat 10-107-06-1-A
2207	Total Kjeldahl Nitrogen – SM 4500N_{org}-C, Lachat 10-107-06-2-D
2208	Chemical Oxygen Demand – SM 5220D
2209	Oil & Grease by n-Hexane Extraction Method & Gravimetry – EPA 1664A
2210	Cyanide, Total – EPA 9010B, SM 4500CN-CE
2211	Phenol, Total - EPA 420.1, EPA 9065, SM 510AC
2212	Sulfate, Turbidimetric Method – EPA 9038, SM 426C, SM 4500SO_4-E
2213	Alkalinity, Titration Method –SM 2320B
2214	Determination of Inorganic Anions by Ion Chromatography – EPA 300.0
2215	Total Organic Carbon/Dissolved Organic Carbon – EPA 9060, SM 5310C
2216	Chloride – SM 4500Cl-E, EPA 9251
2217	Nitrate, Nitrite and Nitrate/Nitrite Nitrogen – EPA 353.2, SM 4500NO_3-F
2218	Total Solids (Dried @ 103-105°) and TVS – SM 2540B, SM 2540E
2219	Total Dissolved Solids – SM 2540C
2220	Total Suspended Solids – SM 2540D
2221	Total Sulfide – SM 4500S2-AD, EPA 9030B
2222	MBAS, Anionic Surfactants – SM 5540C
2223	Fluoride, Electrode Method – SM 4500F-BC

2224	Turbidity, Nephelometric Method – EPA 180.1, SM 2130B
2225	Orthophosphate, Colorimetric Single Reagent Method – SM 4500P-E
2226	Total Phosphorous, Colorimetric Single Reagent Method – SM 4500P-E
2227	Flashpoint – EPA 1010
2228	Reactivity – EPA Chapter 7.3
2229	Total Solids (Dried @ 103-105°) – SM 2540G
2230	Specific Conductance and Salinity
2231	True and Apparent Color, Visual Comparison Method
2232	Acidity, Titration Method
2233	Determination of Formaldehyde by HPLC, EPA 8315A
2234	Sulfite, Iodometric
2235	Ferrous Iron
2236	Residual Chlorine
2237	ORP
2238	Ignitability of Solids EPA 1030
2239	Physiologically Available Cyanide (PAC)
2240	Total Settleable Solids SM 2540 F
2241	Fixed and Volatile Solids in Solid and Semisolid Samples – SM 2540G
2242	Tannin & Lignin
2243	Nitrite - Manual Colorimetric Method
2244	Paint Filter Liquids Test
2245	Odor, Threshold Odor Test
2249	Dissolved Oxygen
2250	Nitroaromatics and Nitramines by HPLC, EPA 8330A
2251	Perchlorate by IC/MS/MS
2274	Data Validation Package Generation
3743	Free Cyanide
9177	Total Phenol - SEAL Method
9733	Oil & Grease and TPH in Soil
10807	Percent Organic Matter in Soil

MANSFIELD SOP #	Title
1753	Glassware Cleaning
1754	Balance Calibration
1755	Pipette Checks
1796	Sample Management - Forensics
1797	Haz Waste
1816	Reagent Solvent Std Control
2137	6020
2138	Hg 245.1, 7470A
2139	Hg soil 7471
2140	AVS SEM
2141	Hydride Generation
2142	Hg Liq 1631E
2143	Hg soil 7474
2148	Metals soil digest 3050
2150	Metals Microwave 3015 3015
2151	Metals Acid Digest 3010/3020
2152	Seawater Extr
2154	TCLP 1311
2155	8270C
2157	PAH by SIM
2158	8081
2160	8082 Aroclors/Cong GC
2162	Pest/PCB Aro/Cong GC/MS SIM
2164	1,4-Dioxane GC/MS SIM
2165	Sep Funnel 3510C
2166	Tissue Prep
2167	GPC
2168	Sulfur Cleanup 3660
2169	Sulfuric Acid Cleanup 3665

2170	Silica Gel Cleanup
2171	% Lipids
2172	MSE
2173	Soxhlet
2174	Soxhlet of PUFs
2175	% Solids
2176	Conductivity
2178	pH in Aqueous and Soil
2179	TSS
2180	Turbidity
2181	Alkalinity
2182	TOC soot-soil
2183	Particle Size
2184	Particlulates in Air PM-10
2185	Volatile Solids
2186	TO-15
2187	APH
2188	Air PIANO
2189	Dissolved Gases
2190	Can Cleaning
2246	TPH and SHC
2247	Alkylated PAH
2248	Organic Lead
2252	Fixed Gases new system
2253	TO-11A
2255	PIANO Volatiles
2256	Ethanol in Oil
2257	Whole Oil Analysis
2259	Density Determination
2260	Alumina Cleanup
2261	Shaker Table

2263	Gravimetric Determ
2264	Tissue Extr
2265	Organic Waste Dilution
2267	Newfields SGC
2268	Newfields DCM
4246	PAHs by SPME
6398	TO-17
6438	Mercury in Sorbent Tubes by CVAA
7900	Mercury 1631E Using Cetac-M-8000 Analyzer
9480	EPA-TO-12
9745	Formaldehyde - HPLC
10480	Nitroaromatics and Nitramines by HPLC
CORPORATE SOP #	**Title**
1559	Sample Receipt & Login
1560	Sample Custody and Tracking
1561	Bottle Order Preparation
1729	Document Control
1731	Manual Integration
1732	DL LOD LOQ
1734	Control Limit Generation
1736	Corrective and Preventative Actions
1739	Demonstration of Capability (DOC) Generation
1740	Internal Audit Procedure
1741	Data Review – Organics
1742	Calculating Measurement Uncertainty
1743	Annual Management Review
1744	Sample Compositing Procedure
1746	Nonconformance Planning/Procedures
1566	Report Generation and Approval

1567	Organics Data Deliverable Package Review
1722	Customer Inquiry and Complaint Procedures
1562	Computer System Backup/Control
1563	Computer and Network Security
1564	Software Validation and Control
1726	Purchasing Procedure
1565	Training Program