Site Characterization Report
Former Stamp's Cleaners
(NYSDEC Site Number 828197)

NYSDEC Standby Engineering Contract
Work Assignment #D007625-37

Prepared For:
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

May 2018

This Page Intentionally Left Blank

Contents

1.0 INTRODUCTION 1

1.1 SITE BACKGROUND 1

1.2 SITE CHARACTERIZATION OVERVIEW 1

2.0 PHYSICAL SETTING 2

2.1 GEOLOGY 2

2.2 HYDROGEOLOGY 2

3.0 FIELD ACTIVITIES 3

3.1 DIRECT PUSH SOIL AND GROUNDWATER SAMPLING 3

3.2 SOIL GAS AND SOIL VAPOR INTRUSION SAMPLING 4

3.2.1 Soil Gas Point Installation 4

3.2.2 Soil Gas Point Sampling 5

3.2.3 Soil Vapor Intrusion Sampling Point Installation 5

3.2.4 Soil Vapor Intrusion Sampling Point Sampling 5

4.0 SITE CHARACTERIZATION RESULTS 6

4.1 SOIL SAMPLING RESULTS 6

4.2 GROUNDWATER SAMPLING RESULTS 6

4.3 SOIL GAS AND SOIL VAPOR INTRUSION SAMPLING RESULTS 7

5.0 CONCLUSIONS 8

References Cited 10

Tables

Table	Title	Tables Follow Report Text
Table 1	Soil Analytical Results	
Table 2	Groundwater Analytical Results	
Table 3	Soil Vapor Intrusion and Soil Gas Analytical Results	

Figures

Figure	Title	Figures Follow Report Text
Figure 1	Site Location	
Figure 2	Soil, Groundwater, Soil Gas, and SVI Sampling Locations	
Figure 3	Soil Analytical Results	
Figure 4	Groundwater Analytical Results	
Figure 5	Soil Gas Analytical Results	
Figure 6	Soil Vapor Intrusion Analytical Results	

Appendices

Appendix	Title
Appendix A	Field Logs
Appendix B	Analytical Data Summary Package – Groundwater and Soil
Appendix C	Analytical Data Summary Package – Soil Gas and Soil Vapor Intrusion
Appendix D	Data Usability Summary Report
Appendix E	Photo Log

1.0 Introduction

1.1 Site Background

The property characterized during this investigation is located at 1155-1159 S. Plymouth Ave. in the City of Rochester in Monroe County, New York (Figure 1). The 0.06 acre property contains a two story building, that occupies the majority of the parcel with the exception of paved sidewalks, a small parking lot, and a rear alley The lower level of the building is zoned commercial and houses a bar/restaurant, the upper level is zoned residential and contains two one-bedroom apartments. In general the property is located in an urban residential and commercial area, with properties of both zoning categories present immediately adjacent to the site. The dominant hydrogeological feature in the vicinity of the site is the Genesee River located to the south and east.

This site was a former registered dry cleaner which operated from about 1974 to 1984. There is documented on-site usage of tetrachloroethene (PCE). Existing files don't show any documented spills or releases of dry cleaning chemicals and the activities associated with this site characterization were triggered by change in use of the site.

1.2 Site Characterization Overview

The site characterization was completed in accordance with the approved work assignment scope, HDR's Field Activities Plan, and Quality Assurance Project Plan (QAPP) and consisted of the following:

- Conducting a review of existing records and reports.
- Attending scoping and project objectives meetings with New York State Department of Environmental Conservation (NYSDEC) and conducting a site visit on September 21, 2017 to determine the existing site conditions and to select sampling locations.
- Development of a work plan that provides a detailed outline of elements of the field activities which incorporates existing data and documentation for the sites as well as technical direction provided by the NYSDEC Project Manager.
- Soil sampling. Four sampling locations were chosen for sample collection using Geoprobe® direct push probe methods. An additional two locations were chosen for sample collection via hammer drill and hand auger due to the presence of utilities that restricted the usage of the direct push probe in those locations. One soil sample from each location was collected for laboratory analysis.
- Groundwater sampling. Each of the four probe holes associated with the soil sampling were converted to temporary piezometer points. Groundwater samples were collected from each temporary piezometer point and submitted for laboratory analysis.

- Soil gas sampling. Six exterior soil gas samples were collected from the subsurface around the exterior perimeter of the building. Two of these sample points were installed using a hammer drill, while four of the soil gas sampling points were installed using Geoprobe® direct push methods. Each soil gas sample, along with an outdoor ambient air sample, were also submitted for laboratory analysis.
- Soil Vapor Intrusion (SVI) Sampling. Two sub-slab vapor points were installed beneath the basement slab. Two indoor air samples, located in the basement and first floor, along with an outdoor ambient air sample were collected for analysis.

2.0 Physical Setting

2.1 Geology

The site is located in Monroe County, 2,100 feet west of the Genesee River. Located in Rochester NY, the site is in the Erie-Ontario Lowlands. The surficial geology on site is mapped as Pleistocene age lacustrine silts and clays with more recent alluvial deposits in close proximity to the site to the east (Muller et al., 1986). The underlying bedrock is mapped as Silurian age dolostones which are part of the Lockport Group on the bedrock geology map - Finger Lakes Sheet of New York State (Fisher et al. 1970). Drilling refusal along with observations of fractured rock at approximately 15 ft bgs at each of the four Geoprobe® locations likely represents the depth of bedrock in this area. On-site soils are defined as Urban Land (Ub), which indicate that identification of the soils are not feasible due to the alteration or obscuring by urban works and structures in the area (USDA 2018; USDA 1973).

2.2 Hydrogeology

In general, a shallow unconsolidated aquifer and deeper bedrock aquifer are found within the region (Grossman and Yarger, 1953). Depending on the character and structure of the geologic formations, either aquifer may provide a dependable source of water. The silts and clays observed on-site along with the shallow depth to bedrock generally indicate that the unconsolidated aquifer in the vicinity of the site is thin and low yielding. Conversely, the Lockport dolostones that comprise the bedrock aquifer on-site are considered to be the most productive bedrock aquifer in the area. However, neither aquifer in the vicinity of the site is part of any mapped primary or principal water supply aquifer (USGS, 2008); or a source of drinking water for local residents. Residents local to the site are part of the City of Rochester Water Service, whose water source is Hemlock and Canadice Lakes in the Finger Lakes Region, and is supplemented with Lake Ontario water purchased from the Monroe County Water Authority (City of Rochester, 2016). The regional ground water flow direction is likely east-southeast towards the Genesee River with the water table generally reflecting the topography of the ground surface.

3.0 Field Activities

HDR initiated a subsurface investigation with drilling subcontractor Nothnagle Drilling, Inc. (Nothnagle) from Scottsville, NY. Soil sampling, installation of temporary piezometers, installation of soil gas points, and groundwater sampling efforts were completed on December 18, 2017. Soil sampling and soil gas point installation at two additional points, along with soil gas sampling, and soil vapor intrusion sampling were completed on January 2 through January 4, 2018. Analytical data results from the various samples were returned from the respective laboratories and the results were validated by Data Validation Services.. Soil boring logs, soil gas sampling logs, SVI sampling logs, and field notes are provided in Appendix A. Analytical data summary packages for the analyses are presented in Appendix B and Appendix C. The Data Usability Summary Reports (DUSRs) are presented in Appendix D. Detailed descriptions of each phase of the investigation are outlined in the sections that follow. A photo log providing visual references for the various field activities are presented in Appendix E.

3.1 Direct Push Soil and Groundwater Sampling

Groundwater and soil sampling were completed using a GeoProbe® 6610DT rig to advance probes at four locations to a maximum depth of 15 ft bgs (Figure 2). Two locations were located along the Jefferson Ave side (west) of the building, and were given the general location ID “SC-1” and “SC-2”. The other two locations were located in the rear alleyway (northeast), and were given the general location ID “SC-3” and “SC-4”. These direct push probes used a four-foot Macro-Core® sampler with dedicated acetate liners to recover continuous soil samples for field screening and submittal for laboratory analysis. In particular, inspection of each soil core involved descriptions of soil composition and depositional characteristics, determination of the presence of unusual odors and staining, and detection of organic vapors using a 5-gas MultiRAE photoionization (PID) monitor. Since field screening did not detect significant levels of organic vapors the samples collected at the water table were submitted for analysis.

Soil samples collected at “SC-1” and “SC-2” were analyzed for target compound list (TCL) volatile organic compound (VOCs) only. The samples collected at “SC-3” and “SC-4” were also analyzed TCL VOCs, along with TCL semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), and target analyte list (TAL) metals. Each samples was collected at depths of 8 to 10 ft bgs.

The installation of a temporary piezometer point followed the completion of each probe point. Nothnagle installed a 0.75-inch OD piezometer point with a 10 ft screen interval at each of the probe locations. Groundwater sampling at each point was manually purged via dedicated tubing and a foot valve, with the sample groundwater containerized in laboratory-provided glassware and submitted for analysis following standard chain of custody protocols. Similar to the soils, groundwater samples from “SC-1” and “SC-3” were analyzed for TLC VOCs only, while “SC-2” and “SC-4” were analyzed for TCL VOCs, TCL SVOCs, pesticides, PCBs, and TAL metals.

Between probing locations, the probe tooling was decontaminated using a bucket wash with Alconox® detergent and clean water rinse. Soil cuttings were returned to each borehole upon the completion of groundwater sampling and subsequent removal of the temporary piezometer.

Initially, six soil sampling locations were planned during this direct push event, however the layout of utilities located on the Plymouth Avenue side (SE) of the building prevented the use of direct push in that area. Instead, a hammer drill was used to install exterior soil gas points on the SE side of the building and a small hand auger sampler was used to collect soils from just below the cement pavement in two locations which were originally planned for soil and groundwater sampling. These two locations were given the location ID "SC-5" and "SC-6". Soils from 0.5 to 1.5 ft bgs at each of the two additional locations containerized in laboratory-provided glassware and submitted for analysis. Those two soil samples were analyzed for TCL VOCs.

All samples, and appropriate quality assurance/quality control (QA/QC), samples designated for laboratory analysis were submitted to TestAmerica, Inc. (TestAmerica) of Buffalo, New York. Samples were submitted and transported (via sample drop-off at the TestAmerica Albany, NY service center) under chain of custody protocols. Boring logs were completed for each GeoProbe® boring location. These logs include a description of soils along with photoionization detector (PID) readings and other observations of potential significance noted during the screening of the cores.

3.2 Soil Gas and Soil Vapor Intrusion Sampling

In order to identify areas of soil contamination that may be a source of soil vapor contamination, and to quantify the magnitude of vapors collecting beneath or within the site building, a series of exterior soil gas points and interior sub-slab points were installed by HDR and Nothnagle.

3.2.1 Soil Gas Point Installation

Four soil gas points were installed by Nothnagle. The four soil gas points were co-located and offset by approximately 1-2 feet with each of the four soil and groundwater sampling locations (SC-1 through SC-4). A GeoProbe® 6620DT rig was used to bore to approximately 4 ft bgs at SC-1, SC-3, and SC-4, and to 1.5 ft bgs at SC-2. Installation of a stainless steel soil gas point occurred in each at those depths, with polyethylene tubing (1/4 in. ID x 3/8 in. OD) connected to the point and extended to the ground surface. A filter pack consisting of clean 00 grade sand was placed around the annulus of the point. The remaining annulus was backfilled with hydrated bentonite chips, and temporarily sealed at the ground surface with quick set cement.

During the January 2018 field event, two additional soil gas points were installed by HDR at points "SC-5" and "SC-6" at depths of 1.5 ft and 0.5 ft respectively. Due to the layout of utilities in this area, a hammer drill was used to drill through the cement pavement and the

underlying soils. Once at depth the soil gas points were installed in a similar fashion as the other three points.

3.2.2 Soil Gas Point Sampling

Soil gas sampling of the newly installed soil gas points occurred during January 2018 field event by HDR field personnel. Tracer gas (Helium) short circuit tests were conducted at each soil gas point to ensure that the seal had adequately isolated the soil gas collection points from the ambient atmosphere. Following successful tracer gas testing, each point was purged using a personal air sampling pump at a rate below 0.2 L/minute, the soil gas samples were then collected by attaching batch certified 1-liter canisters to the polyethylene tubing, opening the 2 hour regulator and allowing the canister to draw soil gas for approximately 2 hours or when the interior pressure of the canister approached -5 inches of mercury.

All soil gas samples designated for laboratory analysis were submitted to ChemTech, Inc. (ChemTech) of Mountaside, New Jersey for VOCs analysis by United State Environmental Protection Agency (USEPA) TO-15 method. Samples were submitted and transported (via FedEx) under chain of custody protocols.

3.2.3 Soil Vapor Intrusion Sampling Point Installation

During the January 2018 field event, HDR personnel constructed two temporary sub-slab points in accordance with New York State Department of Health (NYSDOH) Soil Vapor Guidance. The two sub-slab vapor sampling points, designated SS1 and SS2, were installed in locations considered to provide representative samples of potential vapor accumulation beneath the building foundation. Each point was constructed by drilling through the existing concrete slab using a hammer drill, and inserting polyethylene tubing extending approximately 1-inch beneath the slab. The point was surrounded with coarse, washed sand, sealed below grade using a plug of VOC-free permagum in the annulus around the tubing, sealed at the surface with quick set cement, and then left to cure overnight prior to sampling.

3.2.4 Soil Vapor Intrusion Sampling Point Sampling

The vapor intrusion sampling began approximately 24 hours after the temporary points were completed to allow. Following successful tracer gas testing, the soil gas samples were collected by attaching batch certified 6 liter Summa canisters with 24 hour regulators. As per NYSDOH Guidance, indoor air samples were collected along with the sub-slab samples and outdoor air samples during the sampling event. The indoor air samples consisted of sampling the ambient air within the breathing zone in the basement (IA1) and of the first floor (IA2). Duplicate samples were collected to comply with QC requirements associated with the sampling program.

All vapor intrusion samples designated for laboratory analysis were also submitted to ChemTech under chain of custody protocols for VOCs analysis by USEPA TO-15 method.

4.0 Site Characterization Results

4.1 Soil Sampling Results

Analytical results (USEPA Method 8260) indicated that there were detections of VOCs in two of the six soil samples collected during the site characterization (Table 1; Figure 3). Location SC-5 contained trace concentrations of ethylbenzene, toluene, xylene, along with acetone, methylcyclohexane and PCE. Location SC-6 was found to contain trace concentrations of acetone and PCE. In addition, a duplicate sample taken at location SC-4 contained trace quantities of PCE while the parent sample was non-detect for the same compound. In each instance, the trace levels of each VOC contaminant did not exceed the Unrestricted Use (UU) Soil Cleanup Objectives (SCOs).The highest concentration of PCE, considered to be the most likely site-related contaminant, was 0.0052 mg/kg at SC-5, which is considerably lower than the 1.3 mg/kg UU SCOs for PCE.

SVOC (USEPA Method 8270) analytical results for each of the soil sampling locations indicate that one of two locations designated for SVOC analysis contained a single detection of an SVOC. Location SC-3 contained 0.046 mg/kg of Diethyl Phthalate. No standards exist under the Part 375 SCOs for this compound (Table 1; Figure 3).

Pesticide (USEPA Method 8081B) analytical results indicated that P,P'-DDT and alpha BHC were present in one of two samples designated for pesticide analysis. SC-4 contained 0.00043 mg/kg of alpha BHC and 0.0012 mg/kg of P,P'-DDT. Neither result exceeds the respective UU SCOs for these compounds (Table 1; Figure 3).

PCB (USEPA Method 8082A) analytical results were non-detect at each of the two soil samples designated for PCB analysis (Table1; Figure 3).

TAL Metals and Mercury (USEPA 6010C and 7471B) analyses of surficial soil samples indicated that several metals are present at detectable concentrations in the two samples designated for metals and mercury analysis (Table 1; Figure 3). However, with the exception of total chromium, all detection of metals were below their applicable UU SCOs. In the case of total chromium, since hexavalent chromium samples were not collected, the total chromium analytical results were compared to the more conservative hexavalent chromium SCOs (1 mg/kg UU SCO). Total chromium concentrations were higher than the hexavalent chromium UU SCO in all soil samples designated for metals analysis collected during the site characterization. Neither the Residential Use (RU) SCO for hexavalent chromium nor the UU SCO specifically for trivalent chromium are exceeded in any of the surface soil samples.

4.2 Groundwater Sampling Results

VOC (USEPA Method 8260C) analytical results for the groundwater indicate detectable concentrations at each of the four temporary piezometer locations (SC-1 through SC-4) (Table 2; Figure 4). Benzene, methylcyclohexane, toluene, and xylene were found at all

four locations. Chloroform was found at three locations (SC-2 through SC-4). Acetone and PCE were found at two locations each (SC-1 and SC-3 for acetone, and SC-1 and SC-4 for PCE). Only benzene at SC-1 and SC-3 with concentrations of 2.5 µg/l and 3.4 µg/l, respectively, exceed the Part 703.5 Class GA groundwater standards. The site-related contaminant PCE was found at concentrations of 2.8 µg/L and 0.56 µg/L at SC-1 and SC-3, respectively, which do not exceed its applicable groundwater standard.

SVOC (USEPA Method 8270) and PCB (USEPA Method 8082A) analytical results were non-detect for all target list compounds at the two temporary piezometer points selected for SVOC and PCB analysis (Table 2; Figure 4).

The only pesticide (USEPA Method 8081B) detections in the groundwater were delta BHC at the duplicate sample for SC-4 (Table 2; Figure 4). Similar to the detection of PCE in the SC-4 / duplicate soil sample, the 0.013 µg/l concentration of delta BHC is close to the 0.010 µg/l method detection limit and is not considered analytically significant since the results for neither the parent nor duplicate fraction exceed the NYSDEC Class GA groundwater standard for delta BHC.

TAL Metals and Mercury (USEPA Method 6010C and 7470A) analyses of the groundwater indicated the presence of nineteen metals at each of the two sampling locations designated for metals analysis. Eleven metals at SC-2 and eight metals at SC-4 exceed applicable class GA groundwater standard. The groundwater samples that were collected from each probe location were noted to be very turbid. The turbidity in the samples likely account for many of the noted exceedances (iron, manganese, magnesium, beryllium, chromium, sodium, and zinc). The arsenic concentrations of 56 µg/l and 26 µg/l found at SC-2 and SC-4, respectively, exceed the 25 µg/l class GA standard. The cadmium concentrations of 6.8 µg/l and 6.9 µg/l found at SC-2 and SC-4, respectively, slightly exceeds the 5 µg/l class GA standard. The lead concentrations of 260 µg/l and 81 µg/l found at SC-2 and SC-4, respectively, exceed the 25 µg/l class GA standard. The nickel concentration of 230 µg/l found at SC-2 exceeds the 100 µg/l class GA standard. (Table 2; Figure 4).

4.3 Soil Gas and Soil Vapor Intrusion Sampling Results

Analytical results for soil gas samples indicated measurable concentrations of PCE in all but one sample (Table 3; Figure 5). Concentrations range from non-detect at SC-3 to 251 µg/m^3 at SC-4. The remaining PCE results are all significantly less than the SC-4 concentration, and are as follows: 4.41 µg/m^3 at SC-1, 1.56 µg/m^3 at SC-2, 2.44 µg/m^3 at SC-5, and 0.61 µg/m^3 at SC-6. No PCE was found in the ambient outdoor air sample. Trichloroethene (TCE) was also detected at a concentrations of 0.27 µg/m^3 and 0.48 µg/m^3, at SC-2 and SC-4, respectively. Concentrations of 1,2,4-trimethylbenzene, 1,3-butadiene, 2,2,4-Trimethylpentane, 2-butanone, 4-methyl-2-pentanone, acetone, benzene, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, ethyl benzene, heptane, hexane, m,p-xylene, methylene chloride, o-xylene, tert-butyl alcohol, toluene and trichlorofluromethane were found in the

soil gas on-site in concentrations that ranged from 0.19 µg/m^3 (carbon tetrachloride at SC-4) to 57.8 µg/m^3 (heptane at SC-5).

Analytical results of the soil vapor intrusion sampling indicated measurable concentrations of PCE in both sub-slab samples (Table 3; Figure 6). Concentrations of PCE at SS1 and SS2 were 117 µg/m^3 and 94.3 µg/m^3, respectively. A duplicate sample taken at SS2 provided a similar concentration of 106 µg/m^3. In addition, the analytical results indicate the presence of TCE at both sub-slab sampling locations. SS1 contained 0.27 µg/m^3 of TCE while SS2 contained 0.54 µg/m^3. The duplicate sample taken at SS2 contained a similar concentration of 0.43 µg/m^3. Analytical results indicated the presence of PCE at one of two indoor air sampling locations. The basement indoor air sample (IA1) contained a PCE concentration of 0.2 µg/m^3. The first floor air sample (IA2), as well as the outdoor air sample, were non-detect for PCE. None of the indoor or outdoor air sampling points contained TCE. Additional concentrations of 1,2,4-trimethylbenzene, 2,2,4-trimethylpentane, 2-butanone, acetone, benzene, carbon disulfide, carbon tetrachloride, chloroform, chloromethane, cyclohexane, dichlorodifluoromethane, ethyl benzene, heptane, hexane, m,p-xylene, methylene chloride, o-xylene, styrene, tert-butyl alcohol, tetrahydrofuran, toluene and trichlorofluromethane were found in concentrations that ranged from 0.21 µg/m^3 (chloromethane at the duplicate sample for SS2) to 32.7 µg/m^3 (methylene chloride in the outdoor air sample).

5.0 Conclusions

The objective of the site characterization at the Former Stamps Cleaners site was to determine if the subsurface soils, groundwater, and soil vapor exhibit impacts from the historical on-site usage of dry cleaning solvents. In addition, a limited number of samples were also collected to determine if other contaminants might be present on-site including: SVOC, PCBs, pesticides, and metals.

Results of the soil sampling program indicate that the detected concentrations of TCL VOCs, TCL SVOCs, and pesticides are all below the Part 375 UU SCOs. No PCBs were detected within the soils. In terms of TAL metals, total chromium concentrations in the subsurface soils range from 12.1 mg/kg at SC-3 to 18.4 mg/kg at SC-4. The noted concentrations would exceed the UU SCO for hexavalent chromium under the assumption that all of the measured chromium was hexavalent. The site history does not suggest that hexavalent chromium would be present at this site and it is likely that the noted concentrations represent the upper range of what would be site background for naturally occurring chromium (NYSDEC 2006). None of the remaining TAL metals exceed applicable UU SCOs.

Groundwater samples were collected from each temporary piezometer points and compared to Part 703.5 Class GA Water Quality Standards. Benzene concentrations of 2.5 µg/L and 3.4 µg/L at SC-1 and SC-3, respectively, were the only VOCs found to exceed applicable class GA groundwater standards. Analytical results for TCL SVOCs, pesticides, and PCBs were either non-detect or did not exceed any applicable class GA groundwater

standard. Several metals including arsenic, beryllium, cadmium, chromium, iron, lead, magnesium, manganese, nickel, sodium, and zinc were recognized to exceed applicable class GA groundwater standards for these metals. However, the site history does not suggest the elevated concentrations of these metals are directly attributable to site activities. The metal detections from the groundwater samples are likely derived from the geologic setting of the site and representative of naturally occurring site background concentrations. Other metals, such as arsenic, lead, and sodium, as well the presence of some BTEX compounds, reflect a general background level of groundwater contamination within the shallow aquifer consistent with densely populated urban areas (Howard and Gerber, 2017).

Results of the exterior soil gas sampling indicate the presence of PCE within the vadose zone site-wide, with the highest concentrations occurring within the central part of the rear alleyway. Although there are no specific standards for soil gas, the presence of PCE indicates some degree of contamination within the subsurface that can be attributed to the historical usage of PCE on-site. However, that level of contamination is not in high enough concentrations to cause an exceedance in the soil or groundwater samples taken at each co-located sampling point. In addition, as there is no documented usage of TCE on-site, its existence in the soil gas suggests that some degradation of PCE is occurring although the potential presence of TCE in dry cleaning solvents used at the site cannot be ruled out.

As the exterior soil gas sampling characterized contamination within the vadose zone surrounding the building, the objective of the soil vapor intrusion sampling is to quantify the vapor concentrations beneath the building foundation and within the building itself. The soil vapor intrusion sampling results were compared to the updated soil vapor / indoor air decision matrices found in the NYSDOH CEH BEEI Soil Vapor Intrusion Guidance (NYSDOH, 2017). This guidance identifies eight compounds for which action would be taken depending on their detected concentrations. Of those eight compounds, only PCE, TCE, and carbon tetrachloride were found in measurable concentrations in the soil vapor intrusion samples. The similar concentrations of carbon tetrachloride found within the soil gas samples and the ambient outdoor samples indicates that the source of that contaminant is not attributable to contamination within the sub-surface on-site. Therefore, concentrations of PCE and TCE would dictate what action (no further action, monitoring, or mitigation), if any, is required. The highest sub-slab vapor concentration of PCE is 117 $\mu g/m^3$ while the highest indoor air vapor concentration is 0.2 $\mu g/m^3$. The highest sub-slab vapor concentration of TCE is 0.54 $\mu g/m^3$ at SS2 while the indoor air did not contain any detectable amount. When compared to the soil vapor / indoor air decision matrices A and B, the concentrations observed indicate that no further action is required.

Although the site was a former dry cleaning facility, with a documented use of dry cleaning solvents, the site characterization did not identify any historical releases or dry cleaning solvent disposal at the site. The analytical data obtained for the various environmental media at the site (soil, groundwater, soil vapor, and sub-slab/indoor air) only showed low levels of contamination that would be considered typical of an urbanized area. The noted concentrations do not suggest hazardous waste disposal at this site and it is unlikely this site poses a significant threat to public health or the environment.

References Cited

City of Rochester, 2016, Water Quality Report, City of Rochester Water Bureau, Water Supply ID # NY2704518

Fischer, D.W., Y.W. Isachsen, and L.W. Rickard., 1970, "Finger Lakes Sheet," New York State Museum and Science Service, Map and Chart Series No. 15.

Grossman, I. G., Yarger, L. B., 1953, Water Resources of the Rochester Area, New York, Geological Survey Circular 246, 30 p.

Howard, K., Gerber, R., 2018, Impacts of urban areas and urban growth on groundwater in the Great Lakes Basin of North America, Journal of Great Lakes Research, Vol. 44, p 1-13.

Muller, E.H., Cadwell, D.H., Connally, G.G., and Young, R.A., 1986, Surficial geologic map of New York: Finger Lakes sheet: New York State Museum, Map and Chart Series 40, scale 1:250,000.

NYSDEC, NYS Brownfield Cleanup Program Technical Support Document. 2006. Appendix D. Concentrations of Selected Analytes in Rural New York State Surface Soils: A Summary Report on the Statewide Rural Surface Soil Survey.

NYSDOH, Soil Vapor Intrusion Decision Matrices; Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Center of Environmental Health, Bureau of Environmental Exposure Investigation May 2017.

U.S. Department of Agriculture (USDA), Soil Survey of Monroe County, New York. 1973.

U.S. Department of Agriculture (USDA), Web Soil Survey, Accessed on April 11, 2018.

U.S. Geological Survey (USGS), Upstate New York Surficial Aquifer Mapping Program, New York Water Science Center, 2008.

Tables

Table 1
Soil Analytical Results
Former Stamps Cleaners
December 2017

				Sample Location	SC-1		SC-2		SC-3		SC-4		SC-5		SC-6		DUPE (SC-4)	
				Sample ID	SC1-9-20171218		SC2-9-20171218		SC3-8-10-20171218		SC4-8-10-20171218		SC5-0.5-1.5-20180102		SC6-6(")-20180102		DUPE1-20171218	
				Sample Interval	9'		9'		8' - 10'		8' - 10'		0.5' - 1.5'		0.5'		8' - 10'	
				Sample Date	12/18/2017		12/18/2017		12/18/2017		12/18/2017		1/9/2018		1/9/2018		12/18/2017	
VOCs	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RUSCO**	**NYSDEC Part 375 RRUSCO**															
1,1,1-Trichloroethane	0.68	100	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	NS	NS	NS	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	0.27	19	26	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	0.33	100	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromo-3-chloropropane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromoethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	1.1	100	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	0.02	2.3	3.1	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	2.4	17	49	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	1.8	9.8	13	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	0.05	100	100	ND	U	ND	U	ND	UT	ND	U	0.019	J	0.0089	J	ND	U
Benzene	0.06	2.9	4.8	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromodichloromethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	NS	NS	NS	ND	U	ND	U	ND	UT	ND	U	ND	U	ND	U	ND	U
Carbon disulfide	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon tetrachloride	0.76	1.4	2.4	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene	1.1	100	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	NS	NS	NS	ND	U	ND	U	ND	UT	ND	U	ND	U	ND	U	ND	U
Chloroform	0.37	10	49	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,2-Dichloroethene	0.25	59	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	1	30	41	ND	U	ND	U	ND	U	ND	U	0.00056	J	ND	U	ND	U
Isopropylbenzene	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Acetate	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2-Butanone	0.12	100	100	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U
4-Methyl-2-pentanone	NS	NS	NS	ND	U	ND	U	ND	UT	ND	U	ND	U	ND	U	ND	U
Methylcyclohexane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	0.0048	J	ND	U	ND	U
Methylene chloride	0.05	51	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl-t-butyl ether	0.93	62	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Styrene	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethene	1.3	5.5	19	ND	U	ND	U	ND	U	ND	U	0.0052	J	0.00083	J	0.00077	J
Toluene	0.7	100	100	ND	U	ND	U	ND	U	ND	U	0.0012	J	ND	U	ND	U
trans-1,2-Dichloroethene	0.19	100	100	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethene	0.47	10	21	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichlorofluoromethane	NS	NS	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl chloride	0.02	0.21	0.9	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Xylenes (Total)	0.26	100	100	ND	U	ND	U	ND	U	ND	U	0.0041	J	ND	U	ND	U
SVOCs	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RUSCO**	**NYSDEC Part 375 RRUSCO**															
2,4,5-TRICHLOROPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2,4,6-TRICHLOROPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2,4-DICHLOROPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2,4-DIMETHYLPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2,4-DINITROPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2,4-DINITROTOLUENE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2,6-DINITROTOLUENE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2-CHLORONAPHTHALENE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2-CHLOROPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2-Methylnaphthalene	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2-METHYLPHENOL (O-CRESOL)	0.33	100	100	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2-NITROANILINE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
2-NITROPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
3,3'-DICHLOROBENZIDINE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
3-NITROANILINE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
4,6-DINITRO-2-METHYLPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
4-BROMOPHENYL PHENYL ETHER	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
4-CHLORO-3-METHYLPHENOL	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
4-CHLOROANILINE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U

Table 1
Soil Analytical Results
Former Stamps Cleaners
December 2017

				Sample Location	SC-1		SC-2		SC-3		SC-4		SC-5		SC-6		DUPE (SC-4)	
				Sample ID	SC1-9-20171218		SC2-9-20171218		SC3-8-10-20171218		SC4-8-10-20171218		SC5-0.5-1.5-20180102		SC6-6(")-20180102		DUPE1-20171218	
				Sample Interval	9'		9'		8' - 10'		8' - 10'		0.5' - 1.5'		0.5'		8' - 10'	
				Sample Date	12/18/2017		12/18/2017		12/18/2017		12/18/2017		1/9/2018		1/9/2018		12/18/2017	
4-CHLOROPHENYL PHENYL ETHER	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
4-METHYLPHENOL (P-CRESOL)	0.33	34	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
4-NITROANILINE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
4-NITROPHENOL	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ACENAPHTHENE	20	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ACENAPHTHYLENE	100	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ACETOPHENONE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ANTHRACENE	100	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ATRAZINE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BENZALDEHYDE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BENZO(A)ANTHRACENE	1	1	1		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BENZO(A)PYRENE	1	1	1		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BENZO(B)FLUORANTHENE	1	1	1		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BENZO(G,H,I)PERYLENE	100	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BENZO(K)FLUORANTHENE	0.8	1	3.9		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BENZYL BUTYL PHTHALATE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BIPHENYL (DIPHENYL)	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BIS(2-CHLOROETHOXY) METHANE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	UJ
BIS(2-CHLOROISOPROPYL) ETHER	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BIS(2-ETHYLHEXYL) PHTHALATE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
CAPROLACTAM	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	UJ
CARBAZOLE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
CHRYSENE	1	1	3.9		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
DIBENZ(A,H)ANTHRACENE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
DIBENZOFURAN	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
DIETHYL PHTHALATE	NS	NS	NS		NA	NA	NA	NA	0.046	J	ND	U	NA	NA	NA	NA	ND	U
DIMETHYL PHTHALATE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
DI-N-BUTYL PHTHALATE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
DI-N-OCTYLPHTHALATE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
FLUORANTHENE	100	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
FLUORENE	30	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
HEXACHLOROBENZENE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
HEXACHLOROBUTADIENE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
HEXACHLOROCYCLOPENTADIENE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
HEXACHLOROETHANE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
INDENO(1,2,3-C,D)PYRENE	0.5	0.5	0.5		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ISOPHORONE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	UJ
NAPHTHALENE	12	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
NITROBENZENE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
N-NITROSODI-N-PROPYLAMINE	NS	NS	NS		NA	NA	NA	NA	ND	UJ	ND	U	NA	NA	NA	NA	ND	UJ
N-NITROSODIPHENYLAMINE	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PENTACHLOROPHENOL	0.8	2.4	6.7		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PHENANTHRENE	100	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PHENOL	0.33	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PYRENE	100	100	100		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
Metals	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RUSCO**	**NYSDEC Part 375 RRUSCO**															
ALUMINUM	NS	NS	NS		NA	NA	NA	NA	10800	J-	13400	B	NA	NA	NA	NA	9080	B
ANTIMONY	NS	NS	NS		NA	NA	NA	NA	ND	UJ	ND	U	NA	NA	NA	NA	ND	U
ARSENIC	13	16	16		NA	NA	NA	NA	3.8		4.2		NA	NA	NA	NA	2.7	
BARIUM	350	350	400		NA	NA	NA	NA	40.2	J-	63.9		NA	NA	NA	NA	54.9	
BERYLLIUM	7.2	14	72		NA	NA	NA	NA	0.48		0.60		NA	NA	NA	NA	0.38	
CADMIUM	2.5	2.5	4.3		NA	NA	NA	NA	0.05	J	0.044	J	NA	NA	NA	NA	0.21	J
CALCIUM	NS	NS	NS		NA	NA	NA	NA	1720	J-	1870	J	NA	NA	NA	NA	19100	J
CHROMIUM, TOTAL*	1	22	110		NA	NA	NA	NA	**12.2**	J-	**18.4**		NA	NA	NA	NA	**12.1**	
COBALT	NS	NS	NS		NA	NA	NA	NA	5.4		9.2	J	NA	NA	NA	NA	5.2	J
COPPER	50	270	270		NA	NA	NA	NA	15.3	J	9.0	J	NA	NA	NA	NA	9.9	
IRON	NS	NS	NS		NA	NA	NA	NA	15200	J-	19300		NA	NA	NA	NA	12200	
LEAD	63	400	400		NA	NA	NA	NA	7.7		9.1	J	NA	NA	NA	NA	34.5	J
MAGNESIUM	NS	NS	NS		NA	NA	NA	NA	2020	J-	3190	J	NA	NA	NA	NA	10500	J
MANGANESE	1600	2000	2000		NA	NA	NA	NA	415	J-	465	B	NA	NA	NA	NA	488	B
MERCURY	0.18	0.81	0.81		NA	NA	NA	NA	ND	U	0.050	J	NA	NA	NA	NA	ND	UJ
NICKEL	30	140	310		NA	NA	NA	NA	14.2		17.6	J	NA	NA	NA	NA	9.8	J
POTASSIUM	NS	NS	NS		NA	NA	NA	NA	2780	J	3310	J	NA	NA	NA	NA	1370	J
SELENIUM	3.9	36	180		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
SILVER	2	36	180		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
SODIUM	NS	NS	NS		NA	NA	NA	NA	184		158	J	NA	NA	NA	NA	307	J
THALLIUM	NS	NS	NS		NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
VANADIUM	NS	NS	NS		NA	NA	NA	NA	22.6	J-	29.7		NA	NA	NA	NA	19.2	J
ZINC	109	2200	10000		NA	NA	NA	NA	37.3	J-	38.6	J	NA	NA	NA	NA	64.6	J

Table 1
Soil Analytical Results
Former Stamps Cleaners
December 2017

			Sample Location	SC-1		SC-2		SC-3		SC-4		SC-5		SC-6		DUPE (SC-4)	
			Sample ID	SC1-9-20171218		SC2-9-20171218		SC3-8-10-20171218		SC4-8-10-20171218		SC5-0.5-1.5-20180102		SC6-6(")-20180102		DUPE1-20171218	
			Sample Interval	9'		9'		8' - 10'		8' - 10'		0.5' - 1.5'		0.5'		8' - 10'	
			Sample Date	12/18/2017		12/18/2017		12/18/2017		12/18/2017		1/9/2018		1/9/2018		12/18/2017	
Pesticides	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RUSCO**	**NYSDEC Part 375 RRUSCO**														
ALDRIN	0.005	0.019	0.097	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.02	0.097	0.48	NA	NA	NA	NA	ND	U	0.00043	J	NA	NA	NA	NA	ND	U
ALPHA CHLORDANE	0.094	0.91	4.2	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ALPHA ENDOSULFAN	2.4	4.8	24	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.036	0.072	0.36	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
BETA ENDOSULFAN	2.4	4.8	24	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.04	100	100	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
DIELDRIN	0.005	0.039	0.2	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ENDOSULFAN SULFATE	2.4	4.8	24	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ENDRIN	0.014	2.2	11	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ENDRIN ALDEHYDE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
ENDRIN KETONE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
GAMMA BHC (LINDANE)	0.1	0.28	1.3	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
HEPTACHLOR	0.042	0.42	2.1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
HEPTACHLOR EPOXIDE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
METHOXYCHLOR	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
P,P'-DDD	0.0033	2.6	13	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
P,P'-DDE	0.0033	1.8	8.9	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
P,P'-DDT	0.0033	1.7	7.9	NA	NA	NA	NA	ND	U	0.0012	NJ	NA	NA	NA	NA	ND	U
TOXAPHENE	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
trans-Chlordane	NS	NS	NS	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PCBS	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RUSCO**	**NYSDEC Part 375 RRUSCO**														
PCB-1016 (AROCLOR 1016)	0.1	1	1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PCB-1221 (AROCLOR 1221)	0.1	1	1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PCB-1232 (AROCLOR 1232)	0.1	1	1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PCB-1242 (AROCLOR 1242)	0.1	1	1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PCB-1248 (AROCLOR 1248)	0.1	1	1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PCB-1254 (AROCLOR 1254)	0.1	1	1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U
PCB-1260 (AROCLOR 1260)	0.1	1	1	NA	NA	NA	NA	ND	U	ND	U	NA	NA	NA	NA	ND	U

Table 1
Soil Analytical Results
Former Stamps Cleaners
December 2017

Footnotes

(1) NS - No Standard
ND - Not detected at the reporting limit

(2) VOC - SVOC - Metals - Pesticides:

Units - miligram per kilogram (mg/Kg)

Bold : Exceedence of NYSDEC Part 375 UUSCO - Unrestricted Use SCO
Italic : Exceedence of NYSDEC Part 375 CUSCOs - Residential Use SCO
Shaded: Exceedence of NYSDEC Part 375 IUSCOs - Restricted- Residential Use SCO

*Hexavalent chromium standard used

Qualifiers

J - Approximate value. Result is less than RL but greater than or equal to the MDL. ("-" Bias Low)
U - Compound analyzed for but no detected.
B - Compound found in blank and sample
T - MS and/or MSD Recovery is outside acceptance limits.
NJ - Detection is tentative in identification and estimated in value.

Table 2
Groundwater Analytical Results
Former Stamps Cleaners
December 2017

	Sample Location	SC-1		SC-2		SC-3		SC-4		DUPE (SC-4)	
	Sample ID	SC1-GW-20171218		SC2-GW-20171218		SC3-GW-20171218		SC4-GW-20170713		DUPE2-20170712	
	Sample Date	12/18/2017		12/18/2017		12/18/2017		12/18/2017		12/18/2017	
VOCs	**NYSDEC Part 703.5 Class GA**										
1,1,1-Trichloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	1	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	5	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromo-3-chloropropane	0.04	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromoethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	0.6	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	1	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	NS	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	NS	6.7	J	ND	U	3.4	J	ND	U	ND	U
Benzene	1	**2.5**		0.55	J	**3.4**		0.69	J	0.64	J
Bromodichloromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	NS	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon disulfide	60	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon tetrachloride	5	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	7	ND	U	0.41	J	0.5	J	2.4		2.4	
Chloromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,2-Dichloroethene	5	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	0.4*	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NS	1.6		0.74	J	1.9		ND	U	0.76	J
Dibromochloromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Acetate	NS	ND	U	ND	U	ND	U	ND	U	ND	U
2-Butanone	NS	ND	U	ND	U	ND	U	ND	U	ND	U
4-Methyl-2-pentanone	NS	ND	U	ND	U	ND	U	ND	U	ND	U
Methylcyclohexane	NS	1.9		1.5		2.2		1.4		1.3	
Methylene chloride	5	ND	U	ND	U	ND	U	ND	U	0.6	J
Methyl-t-butyl ether	5	ND	U	ND	U	ND	U	ND	U	ND	U
Styrene	NS	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethene	5	2.8		ND	U	ND	U	0.56	J	0.51	J
Toluene	NS	3.6		1.1		5.1		1.4		1.3	
trans-1,2-Dichloroethene	5	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	0.4*	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethene	5	ND	U	ND	U	ND	U	ND	U	ND	U
Trichlorofluoromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl chloride	2	ND	U	ND	U	ND	U	ND	U	ND	U
Xylenes (Total)	5	2.4		1	J	4.6		1.2	J	1.2	J

Table 2
Groundwater Analytical Results
Former Stamps Cleaners
December 2017

	Sample Location	SC-1		SC-2		SC-3		SC-4		DUPE (SC-4)	
	Sample ID	SC1-GW-20171218		SC2-GW-20171218		SC3-GW-20171218		SC4-GW-20170713		DUPE2-20170712	
	Sample Date	12/18/2017		12/18/2017		12/18/2017		12/18/2017		12/18/2017	
SVOCs	**NYSDEC Part 703.5 Class GA**										
2,4,5-TRICHLOROPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2,4,6-TRICHLOROPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2,4-DICHLOROPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2,4-DIMETHYLPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2,4-DINITROPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2,4-DINITROTOLUENE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
2,6-DINITROTOLUENE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
2-CHLORONAPHTHALENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2-CHLOROPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2-Methylnaphthalene	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2-METHYLPHENOL (O-CRESOL)	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
2-NITROANILINE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
2-NITROPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
3,3'-DICHLOROBENZIDINE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
3-NITROANILINE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
4,6-DINITRO-2-METHYLPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
4-BROMOPHENYL PHENYL ETHER	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
4-CHLORO-3-METHYLPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
4-CHLOROANILINE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
4-CHLOROPHENYL PHENYL ETHER	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
4-METHYLPHENOL (P-CRESOL)	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
4-NITROANILINE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
4-NITROPHENOL	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ACENAPHTHENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ACENAPHTHYLENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ACETOPHENONE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ANTHRACENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ATRAZINE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BENZALDEHYDE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BENZO(A)ANTHRACENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BENZO(A)PYRENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BENZO(B)FLUORANTHENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BENZO(G,H,I)PERYLENE	NS	NA	NA	ND	UT	NA	NA	ND	U	ND	U
BENZO(K)FLUORANTHENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BENZYL BUTYL PHTHALATE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BIPHENYL (DIPHENYL)	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BIS(2-CHLOROETHOXY) METHANE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
BIS(2-CHLOROISOPROPYL) ETHER	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
BIS(2-ETHYLHEXYL) PHTHALATE	5	NA	NA	ND	UT	NA	NA	ND	U	ND	U
CAPROLACTAM	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
CARBAZOLE	NS	NA	NA	ND	UT	NA	NA	ND	UT	ND	UT
CHRYSENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
DIBENZ(A,H)ANTHRACENE	NS	NA	NA	ND	UT	NA	NA	ND	U	ND	U
DIBENZOFURAN	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
DIETHYL PHTHALATE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
DIMETHYL PHTHALATE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
DI-N-BUTYL PHTHALATE	50	NA	NA	ND	U	NA	NA	ND	U	ND	U
DI-N-OCTYLPHTHALATE	NS	NA	NA	ND	UT	NA	NA	ND	U	ND	U
FLUORANTHENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
FLUORENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U

Table 2
Groundwater Analytical Results
Former Stamps Cleaners
December 2017

	Sample Location	SC-1		SC-2		SC-3		SC-4		DUPE (SC-4)	
	Sample ID	SC1-GW-20171218		SC2-GW-20171218		SC3-GW-20171218		SC4-GW-20170713		DUPE2-20170712	
	Sample Date	12/18/2017		12/18/2017		12/18/2017		12/18/2017		12/18/2017	
HEXACHLOROBENZENE	0.04	NA	NA	ND	U	NA	NA	ND	U	ND	U
HEXACHLOROBUTADIENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
HEXACHLOROCYCLOPENTADIENE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
HEXACHLOROETHANE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
INDENO(1,2,3-C,D)PYRENE	NS	NA	NA	ND	UT	NA	NA	ND	U	ND	U
ISOPHORONE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
NAPHTHALENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
NITROBENZENE	0.4	NA	NA	ND	U	NA	NA	ND	U	ND	U
N-NITROSODI-N-PROPYLAMINE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
N-NITROSODIPHENYLAMINE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
PENTACHLOROPHENOL	1	NA	NA	ND	U	NA	NA	ND	U	ND	U
PHENANTHRENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
PHENOL	1	NA	NA	ND	U	NA	NA	ND	U	ND	U
PYRENE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
Metals	**NYSDEC Part 703.5 Class GA**										
ALUMINUM	NS	NA	NA	97500	J-	NA	NA	34100		45800	
ANTIMONY	3	NA	NA	ND	UJ	NA	NA	ND	U	ND	U
ARSENIC	25	NA	NA	**56**		NA	NA	**26**		**33**	
BARIUM	1000	NA	NA	800		NA	NA	390		480	
BERYLLIUM	3	NA	NA	**4.4**	J	NA	NA	1.6	J	2.3	
CADMIUM	5	NA	NA	**6.8**		NA	NA	**6.9**		**8.9**	
CALCIUM	NS	NA	NA	473000	J-	NA	NA	362000		382000	
CHROMIUM, TOTAL	50	NA	NA	**150**	J-	NA	NA	**56**		**69**	
COBALT	NS	NA	NA	70	J	NA	NA	16		23	
COPPER	200	NA	NA	140		NA	NA	51		70	
IRON	300	NA	NA	**155000**	J-	NA	NA	**44600**	J	**62500**	J
LEAD	25	NA	NA	**260**	J-	NA	NA	**81**		**110**	
MAGNESIUM	35000	NA	NA	**201000**	J-	NA	NA	**147000**		**157000**	
MANGANESE	300	NA	NA	**5900**		NA	NA	**2500**		**3100**	
MERCURY	0.7	NA	NA	0.58		NA	NA	0.19	J	0.28	
NICKEL	100	NA	NA	**230**	J	NA	NA	58		78	
POTASSIUM	NS	NA	NA	22500	J	NA	NA	13500	B	15900	B
SELENIUM	10	NA	NA	ND	UJ	NA	NA	ND	U	ND	U
SILVER	50	NA	NA	ND	U	NA	NA	ND	U	ND	U
SODIUM	20000	NA	NA	**266000**	J-	NA	NA	**371000**		**352000**	
THALLIUM	0.5	NA	NA	ND	U	NA	NA	ND	U	ND	U
VANADIUM	NS	NA	NA	190	J	NA	NA	57		78	
ZINC	2000	NA	NA	**3200**	J-	NA	NA	1300		1800	
Pesticides	**NYSDEC Part 703.5 Class GA**										
ALDRIN	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	0.01	NA	NA	ND	U	NA	NA	ND	U	ND	U
ALPHA CHLORDANE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ALPHA ENDOSULFAN	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	0.04	NA	NA	ND	U	NA	NA	ND	U	ND	U
BETA ENDOSULFAN	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	0.04	NA	NA	ND	U	NA	NA	ND	U	0.013	J
DIELDRIN	0.004	NA	NA	ND	U	NA	NA	ND	U	ND	U
ENDOSULFAN SULFATE	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ENDRIN	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
ENDRIN ALDEHYDE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U
ENDRIN KETONE	5	NA	NA	ND	U	NA	NA	ND	U	ND	U

Table 2
Groundwater Analytical Results
Former Stamps Cleaners
December 2017

	Sample Location	SC-1		SC-2		SC-3		SC-4		DUPE (SC-4)	
	Sample ID	SC1-GW-20171218		SC2-GW-20171218		SC3-GW-20171218		SC4-GW-20170713		DUPE2-20170712	
	Sample Date	12/18/2017		12/18/2017		12/18/2017		12/18/2017		12/18/2017	
GAMMA BHC (LINDANE)	0.05	NA	NA	ND	U	NA	NA	ND	U	ND	U
HEPTACHLOR	0.04	NA	NA	ND	U	NA	NA	ND	U	ND	U
HEPTACHLOR EPOXIDE	0.03	NA	NA	ND	U	NA	NA	ND	U	ND	U
METHOXYCHLOR	35	NA	NA	ND	U	NA	NA	ND	U	ND	U
P,P'-DDD	0.3	NA	NA	ND	U	NA	NA	ND	U	ND	U
P,P'-DDE	0.2	NA	NA	ND	U	NA	NA	ND	U	ND	U
P,P'-DDT	0.2	NA	NA	ND	U	NA	NA	ND	U	ND	U
TOXAPHENE	0.06	NA	NA	ND	U	NA	NA	ND	U	ND	U
trans-Chlordane	NS	NA	NA	ND	U	NA	NA	ND	U	ND	U
PCBS	**NYSDEC Part 703.5 Class GA**										
PCB-1016 (AROCLOR 1016)	0.09	NA	NA	ND	U	NA	NA	ND	U	ND	U
PCB-1221 (AROCLOR 1221)	0.09	NA	NA	ND	U	NA	NA	ND	U	ND	U
PCB-1232 (AROCLOR 1232)	0.09	NA	NA	ND	U	NA	NA	ND	U	ND	U
PCB-1242 (AROCLOR 1242)	0.09	NA	NA	ND	U	NA	NA	ND	U	ND	U
PCB-1248 (AROCLOR 1248)	0.09	NA	NA	ND	U	NA	NA	ND	U	ND	U
PCB-1254 (AROCLOR 1254)	0.09	NA	NA	ND	U	NA	NA	ND	U	ND	U
PCB-1260 (AROCLOR 1260)	0.09	NA	NA	ND	U	NA	NA	ND	U	ND	U

Table 2
Groundwater Analytical Results
Former Stamps Cleaners
December 2017

Footnotes

(1) NS - No Standard
ND - Not Detected at the Reporting Limit
NA - Not Applicable

(2) VOC - SVOC - Metals - Pesticides:

Units - micrograms per liter (µg/l)

Bold/highlighted cell – Exceedance of 6 NYCRR Part 703 Class GA Water Quality Standards and Classifications. Compounds without established GWQS, the applicable groundwater values from the Division of Water Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) were used.

Qualifiers

J - Approximate value. Result is less than RL but greater than or equal to the MDL ("-" Bias Low)

U - Compound analyzed for but not detected.

B - Compound found in blank and sample

T - MS and/or MSD Recovery is outside acceptance limits.

Table 3
Soil Vapor Intrusion and Soil Gas Analytical Results
Former Stamps Cleaners
January 2018

Sample Location	SC-1		SC-2		SC-3		SC-4		SC-5		SC-6		SS1	
Sample ID	SC-SG1-20180103		SC-SG2-20180103		SC-SG3-20180103		SC-SG4-20180103		SC-SG5-20180103		SC-SG6-20180103		SC-SS1-20180103	
Sample Date	1/3/2018		1/3/2018		1/3/2018		1/3/2018		1/3/2018		1/3/2018		1/3/2018	
VOCs														
1,1,1-Trichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichlorotrifluoroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	ND	U	0.88	J	ND	U	0.88	J	0.79	J	0.64	J	0.64	J
1,2-Dibromoethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3,5-Trimethylbenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Butadiene	ND	U	4.2		ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dioxane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2,2,4-Trimethylpentane	0.47	J	0.75	J	ND	U	ND	U	ND	U	0.47	J	1.54	J
2-Butanone	1.24	J	1.83		1.74		1.18	J	2.15		1.3	J	2.3	
2-Chlorotoluene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
4-Ethyltoluene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
4-Methyl-2-Pentanone	ND	U	ND	U	ND	U	ND	U	0.78	J	ND	U	ND	U
Acetone	8.55		9.03	J-	6.65		8.08		11.9		13.1		6.18	
Allyl Chloride	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Benzene	ND	U	0.67	J	0.77	J	2.11		3		1.02	J	0.42	J
Bromodichloromethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Disulfide	0.72	J	2.74		ND	U	1.84		4.98		0.72	J	1.81	
Carbon Tetrachloride	ND	U	0.25		0.5		0.19		0.44		0.31		0.19	
Chlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	ND	U	1.47	J	ND	U	ND	U	ND	U	3.27		0.63	J
Chloromethane	0.33	J	0.37	J	1.05		ND	U	0.64	J	0.66	J	ND	U
cis-1,2-Dichloroethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	2.24		1.45	J	0.34	J	1.96		11		2.55		0.65	J
Dibromochloromethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	ND	UJ	1.83	J	0.69	J-	ND	UJ	0.59	J-	1.73	J-	1.34	J-
Dichlorotetrafluoroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Ethyl Benzene	ND	U	ND	U	ND	U	ND	U	0.52	J	0.69	J	ND	U
Heptane	ND	U	3.52		0.53	J	ND	U	57.8		2.34		0.49	J
Hexachloro-1,3-Butadiene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Hexane	2.26	J	3.88		0.88	J	2.4		48.6		7.75		1.37	J
m/p-Xylene	0.87	J	1.35	J	0.78	J	1	J	1.82	J	2.87	J	1.22	J
Methyl Methacrylate	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl tert-Butyl Ether	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylene Chloride	ND	U	ND	U	7.99		ND	U	ND	U	15.6		ND	U
Naphthalene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
o-Xylene	ND	U	0.74	J	0.48	J	0.56	J	0.83	J	1.35	J	0.74	J
Styrene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
t-1,3-Dichloropropene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
tert-Butyl alcohol	13.3		8.79	J-	ND	U	3.33		4.55		2.39		ND	U
Tetrachloroethene	4.41		1.56		ND	U	251	D	2.44		0.61		117	D
Tetrahydrofuran	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	0.44	J
Toluene	1.13	J	1.88		3.01		2.15		5.65		6.41		1.73	J
trans-1,2-Dichloroethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethene	ND	U	0.27		ND	U	0.48		ND	U	ND	U	0.27	
Trichlorofluoromethane	1.18	J	1.07	J	1.29	J	0.84	J	1.29	J	1.18	J	5	
Vinyl Chloride	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U

Table 3
Soil Vapor Intrusion and Soil Gas Analytical Results
Former Stamps Cleaners
January 2018

Sample Location	SS2		SS2		IA1		IA2		Outdoor Air		Outdoor Air	
Sample ID	SC-SS2-20180103		SC-DUPE1-20180103		SC-IA1-20180103		SC-IA2-20180103		SC-OA-20180103		SC-OA2-20180103	
Sample Date	1/3/2018		1/3/2018		1/3/2018		1/3/2018		1/3/2018		1/3/2018	
VOCs												
1,1,1-Trichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichlorotrifluoroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	0.79	J	0.74	J	0.49	J	1.13	J	ND	U	0.49	J
1,2-Dibromoethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3,5-Trimethylbenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Butadiene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dioxane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2,2,4-Trimethylpentane	3.55		3.64		0.65	J	ND	U	ND	U	ND	U
2-Butanone	3.24		2.74		5.31		3.54		1.12	J	1.27	J
2-Chlorotoluene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
4-Ethyltoluene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
4-Methyl-2-Pentanone	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	13.1		10.2		6.65		8.31	J-	3.8		6.65	
Allyl Chloride	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Benzene	0.7	J	0.64	J	1.18	J	1.15	J	0.89	J	0.73	J
Bromodichloromethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Disulfide	3.43		3.74		ND	U	ND	U	ND	U	ND	U
Carbon Tetrachloride	0.38		0.25		0.44		0.38		0.44		0.5	
Chlorobenzene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	0.98	J	0.68	J	ND	U	ND	U	ND	U	ND	U
Chloromethane	0.78	J	0.21	J	0.95	J	0.87	J	0.87	J	0.97	J
cis-1,2-Dichloroethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,3-Dichloropropene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	3.2		3.3		0.55	J	0.52	J	0.41	J	ND	U
Dibromochloromethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	1.73	J-	1.78	J-	1.58	J-	2.37	J	1.29	J-	1.19	J-
Dichlorotetrafluoroethane	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Ethyl Benzene	0.78	J	0.87	J	ND	U	0.91	J	ND	U	ND	U
Heptane	5.74		5.74		0.49	J	0.7	J	ND	U	ND	U
Hexachloro-1,3-Butadiene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Hexane	3.88		3.88		1.9		2.22		1.27	J	2.57	
m/p-Xylene	2.69	J	2.95	J	1.39	J	3.21	J	ND	U	0.56	J
Methyl Methacrylate	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl tert-Butyl Ether	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylene Chloride	ND	U	ND	U	ND	U	ND	U	ND	U	32.7	
Naphthalene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
o-Xylene	1.04	J	1.17	J	0.56	J	1.35	J	ND	U	ND	U
Styrene	ND	U	ND	U	ND	U	0.89	J	ND	U	ND	U
t-1,3-Dichloropropene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
tert-Butyl alcohol	ND	UJ	3.94	J	ND	U	ND	UJ	ND	U	ND	U
Tetrachloroethene	94.3		106	D	0.2		ND	U	ND	U	ND	U
Tetrahydrofuran	0.53	J	0.44	J	5.01		2.95		ND	U	ND	U
Toluene	4.9		4.15		3.77		27.5		0.41	J	1.32	J
trans-1,2-Dichloroethene	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethene	0.54		0.43		ND	U	ND	U	ND	U	ND	U
Trichlorofluoromethane	1.4	J	1.46	J	1.29	J	1.12	J	1.24	J	1.35	J
Vinyl Chloride	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U

Table 3
Soil Vapor Intrusion and Soil Gas Analytical Results
Former Stamps Cleaners
January 2018

Footnotes

(1) NS - No Standard
ND - Not Detected at the Reporting Limit
NA - Not Applicable

(2) Units - ug/m^3

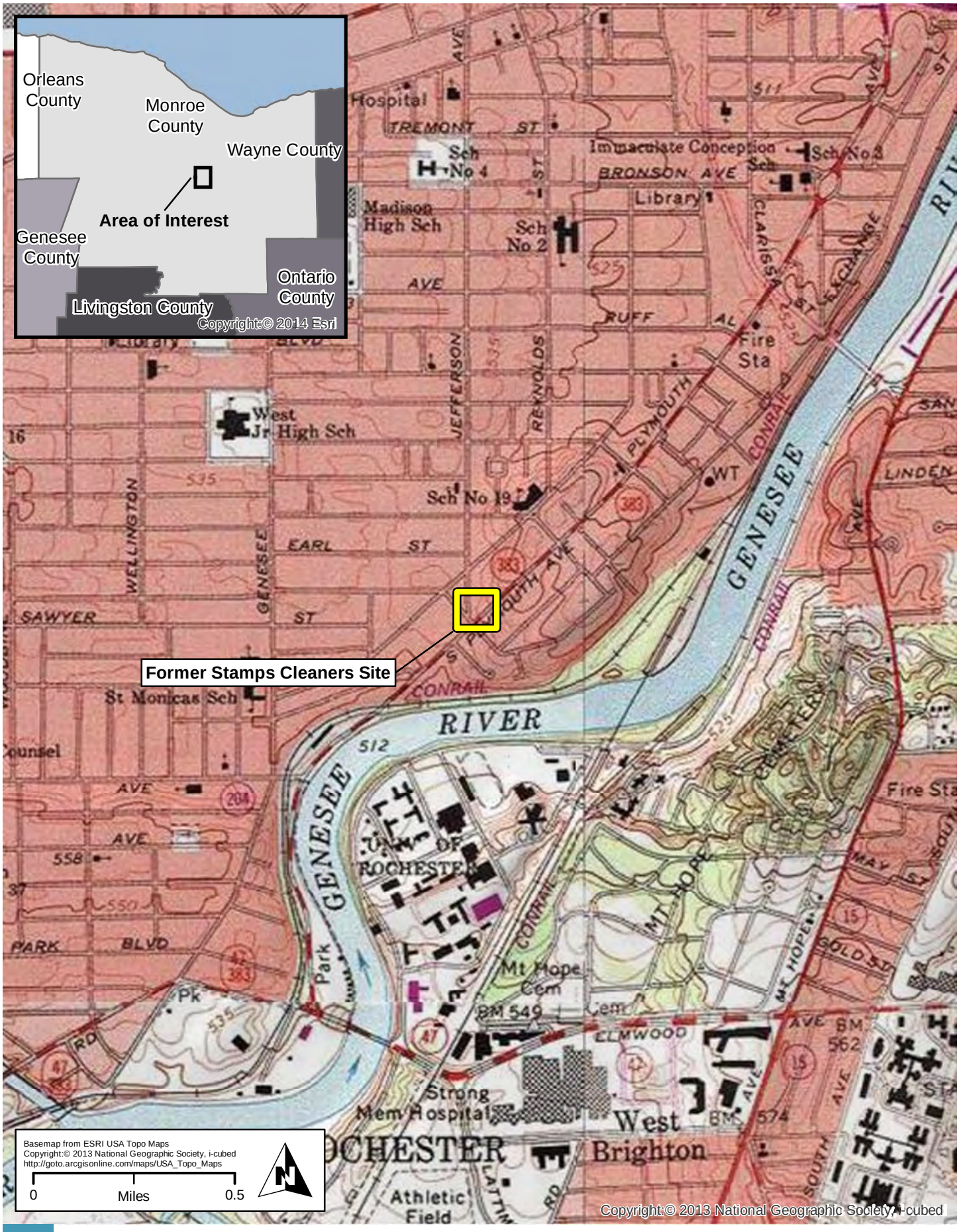
Qualifiers

J - Approximate value. Result is less than RL but greater than or equal to the MDL ("-" Bias Low)

D - Compounds identified in an analysis at a secondary dilution factor

U - Compound analyzed for but not detected.

Figures



SITE LOCATION MAP

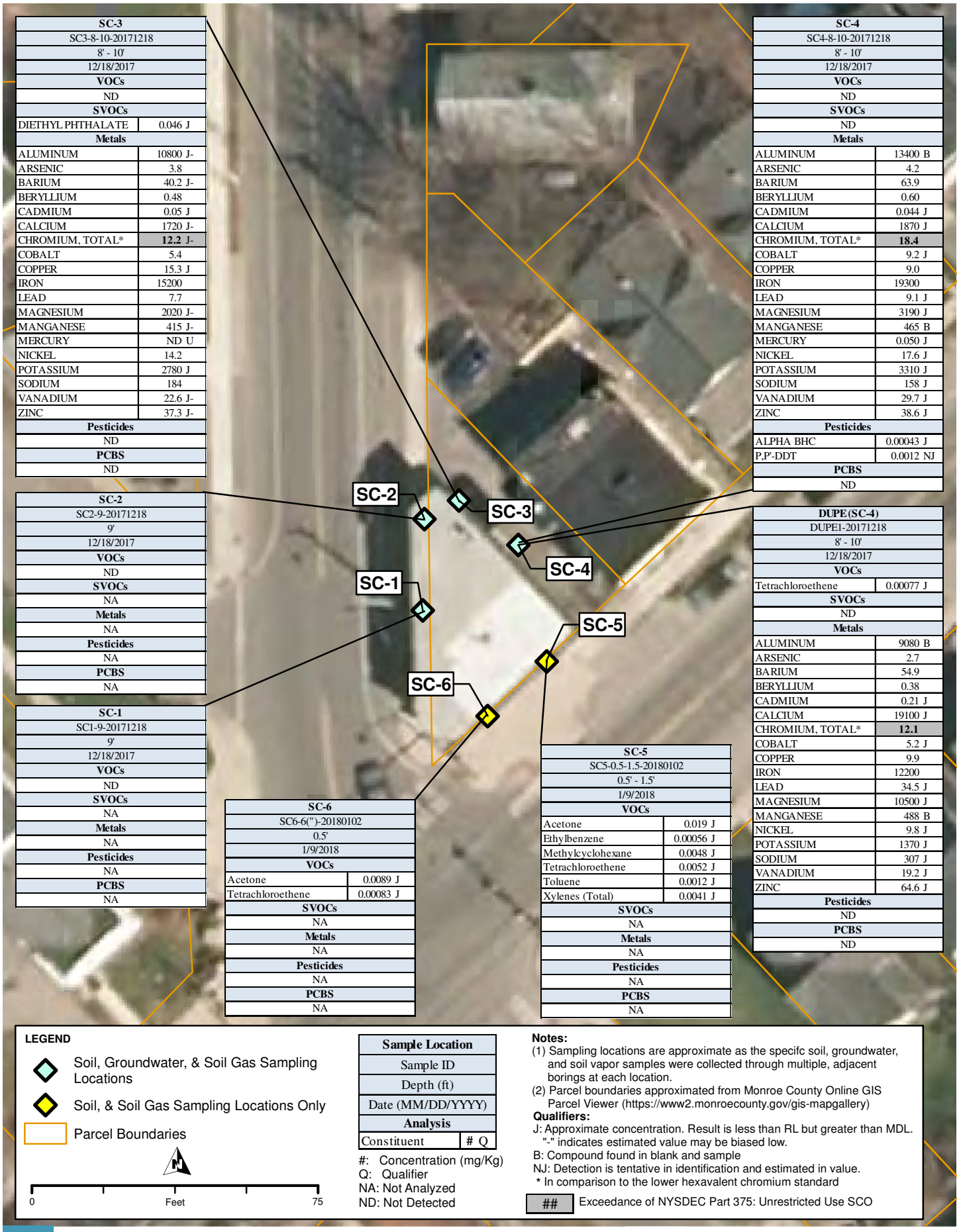
FORMER STAMPS CLEANERS (NYSDEC SITE # 828197)

FIGURE 1

SOIL, GROUNDWATER, SOIL GAS, AND SVI SAMPLING LOCATIONS

FORMER STAMPS CLEANERS (NYSDEC SITE # 828197)

FIGURE 2



SC-3	
SC3-8-10-20171218	
8' - 10'	
12/18/2017	
VOCs	
ND	
SVOCs	
DIETHYL PHTHALATE	0.046 J
Metals	
ALUMINUM	10800 J-
ARSENIC	3.8
BARIUM	40.2 J-
BERYLLIUM	0.48
CADMIUM	0.05 J
CALCIUM	1720 J-
CHROMIUM, TOTAL*	**12.2** J-
COBALT	5.4
COPPER	15.3 J
IRON	15200
LEAD	7.7
MAGNESIUM	2020 J-
MANGANESE	415 J-
MERCURY	ND U
NICKEL	14.2
POTASSIUM	2780 J
SODIUM	184
VANADIUM	22.6 J-
ZINC	37.3 J-
Pesticides	
ND	
PCBS	
ND	

SC-4	
SC4-8-10-20171218	
8' - 10'	
12/18/2017	
VOCs	
ND	
SVOCs	
ND	
Metals	
ALUMINUM	13400 B
ARSENIC	4.2
BARIUM	63.9
BERYLLIUM	0.60
CADMIUM	0.044 J
CALCIUM	1870 J
CHROMIUM, TOTAL*	**18.4**
COBALT	9.2 J
COPPER	9.0
IRON	19300
LEAD	9.1 J
MAGNESIUM	3190 J
MANGANESE	465 B
MERCURY	0.050 J
NICKEL	17.6 J
POTASSIUM	3310 J
SODIUM	158 J
VANADIUM	29.7 J
ZINC	38.6 J
Pesticides	
ALPHA BHC	0.00043 J
P,P'-DDT	0.0012 NJ
PCBS	
ND	

SC-2	
SC2-9-20171218	
9'	
12/18/2017	
VOCs	
ND	
SVOCs	
NA	
Metals	
NA	
Pesticides	
NA	
PCBS	
NA	

DUPE(SC-4)	
DUPE1-20171218	
8' - 10'	
12/18/2017	
VOCs	
Tetrachloroethene	0.00077 J
SVOCs	
ND	
Metals	
ALUMINUM	9080 B
ARSENIC	2.7
BARIUM	54.9
BERYLLIUM	0.38
CADMIUM	0.21 J
CALCIUM	19100 J
CHROMIUM, TOTAL*	**12.1**
COBALT	5.2 J
COPPER	9.9
IRON	12200
LEAD	34.5 J
MAGNESIUM	10500 J
MANGANESE	488 B
NICKEL	9.8 J
POTASSIUM	1370 J
SODIUM	307 J
VANADIUM	19.2 J
ZINC	64.6 J
Pesticides	
ND	
PCBS	
ND	

SC-1	
SC1-9-20171218	
9'	
12/18/2017	
VOCs	
ND	
SVOCs	
NA	
Metals	
NA	
Pesticides	
NA	
PCBS	
NA	

SC-6	
SC6-6(")-20180102	
0.5'	
1/9/2018	
VOCs	
Acetone	0.0089 J
Tetrachloroethene	0.00083 J
SVOCs	
NA	
Metals	
NA	
Pesticides	
NA	
PCBS	
NA	

SC-5	
SC5-0.5-1.5-20180102	
0.5' - 1.5'	
1/9/2018	
VOCs	
Acetone	0.019 J
Ethylbenzene	0.00056 J
Methylcyclohexane	0.0048 J
Tetrachloroethene	0.0052 J
Toluene	0.0012 J
Xylenes (Total)	0.0041 J
SVOCs	
NA	
Metals	
NA	
Pesticides	
NA	
PCBS	
NA	

LEGEND

- Soil, Groundwater, & Soil Gas Sampling Locations
- Soil, & Soil Gas Sampling Locations Only
- Parcel Boundaries

0 Feet 75

Sample Location	
Sample ID	
Depth (ft)	
Date (MM/DD/YYYY)	
Analysis	
Constituent	# Q

#: Concentration (mg/Kg)
Q: Qualifier
NA: Not Analyzed
ND: Not Detected

Notes:
(1) Sampling locations are approximate as the specifc soil, groundwater, and soil vapor samples were collected through multiple, adjacent borings at each location.
(2) Parcel boundaries approximated from Monroe County Online GIS Parcel Viewer (https://www2.monroecounty.gov/gis-mapgallery)

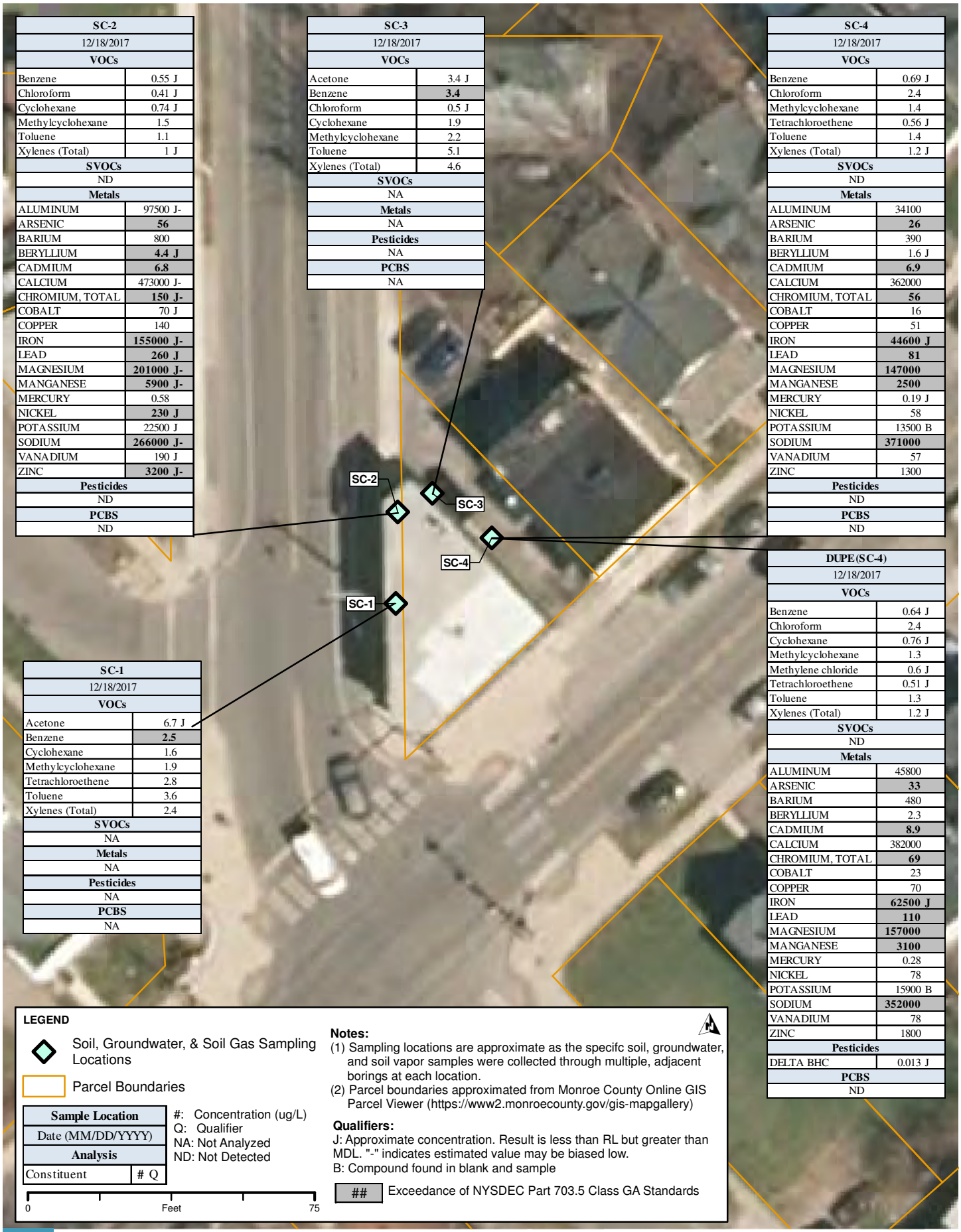
Qualifiers:
J: Approximate concentration. Result is less than RL but greater than MDL. "-" indicates estimated value may be biased low.
B: Compound found in blank and sample
NJ: Detection is tentative in identification and estimated in value.
* In comparison to the lower hexavalent chromium standard

Exceedance of NYSDEC Part 375: Unrestricted Use SCO

SOIL SAMPLING RESULTS - DETECTIONS ONLY

FORMER STAMPS CLEANERS (NYSDEC SITE # 828197)

FIGURE 3



SC-2	
12/18/2017	
VOCs	
Benzene	0.55 J
Chloroform	0.41 J
Cyclohexane	0.74 J
Methylcyclohexane	1.5
Toluene	1.1
Xylenes (Total)	1 J
SVOCs	
ND	
Metals	
ALUMINUM	97500 J-
ARSENIC	**56**
BARIUM	800
BERYLLIUM	**4.4 J**
CADMIUM	**6.8**
CALCIUM	473000 J-
CHROMIUM, TOTAL	**150 J-**
COBALT	70 J
COPPER	140
IRON	**155000 J-**
LEAD	**260 J**
MAGNESIUM	**201000 J-**
MANGANESE	**5900 J-**
MERCURY	0.58
NICKEL	**230 J**
POTASSIUM	22500 J
SODIUM	**266000 J-**
VANADIUM	190 J
ZINC	**3200 J-**
Pesticides	
ND	
PCBS	
ND	

SC-3	
12/18/2017	
VOCs	
Acetone	3.4 J
Benzene	**3.4**
Chloroform	0.5 J
Cyclohexane	1.9
Methylcyclohexane	2.2
Toluene	5.1
Xylenes (Total)	4.6
SVOCs	
NA	
Metals	
NA	
Pesticides	
NA	
PCBS	
NA	

SC-4	
12/18/2017	
VOCs	
Benzene	0.69 J
Chloroform	2.4
Methylcyclohexane	1.4
Tetrachloroethene	0.56 J
Toluene	1.4
Xylenes (Total)	1.2 J
SVOCs	
ND	
Metals	
ALUMINUM	34100
ARSENIC	**26**
BARIUM	390
BERYLLIUM	1.6 J
CADMIUM	**6.9**
CALCIUM	362000
CHROMIUM, TOTAL	**56**
COBALT	16
COPPER	51
IRON	**44600 J**
LEAD	**81**
MAGNESIUM	**147000**
MANGANESE	**2500**
MERCURY	0.19 J
NICKEL	58
POTASSIUM	13500 B
SODIUM	**371000**
VANADIUM	57
ZINC	1300
Pesticides	
ND	
PCBS	
ND	

SC-1	
12/18/2017	
VOCs	
Acetone	6.7 J
Benzene	**2.5**
Cyclohexane	1.6
Methylcyclohexane	1.9
Tetrachloroethene	2.8
Toluene	3.6
Xylenes (Total)	2.4
SVOCs	
NA	
Metals	
NA	
Pesticides	
NA	
PCBS	
NA	

DUPE (SC-4)	
12/18/2017	
VOCs	
Benzene	0.64 J
Chloroform	2.4
Cyclohexane	0.76 J
Methylcyclohexane	1.3
Methylene chloride	0.6 J
Tetrachloroethene	0.51 J
Toluene	1.3
Xylenes (Total)	1.2 J
SVOCs	
ND	
Metals	
ALUMINUM	45800
ARSENIC	**33**
BARIUM	480
BERYLLIUM	2.3
CADMIUM	**8.9**
CALCIUM	382000
CHROMIUM, TOTAL	**69**
COBALT	23
COPPER	70
IRON	**62500 J**
LEAD	**110**
MAGNESIUM	**157000**
MANGANESE	**3100**
MERCURY	0.28
NICKEL	78
POTASSIUM	15900 B
SODIUM	**352000**
VANADIUM	78
ZINC	1800
Pesticides	
DELTA BHC	0.013 J
PCBS	
ND	

LEGEND

Soil, Groundwater, & Soil Gas Sampling Locations

Parcel Boundaries

Sample Location	
Date (MM/DD/YYYY)	
Analysis	
Constituent	# Q

#: Concentration (ug/L)
Q: Qualifier
NA: Not Analyzed
ND: Not Detected

0 Feet 75

Notes:
(1) Sampling locations are approximate as the specifc soil, groundwater, and soil vapor samples were collected through multiple, adjacent borings at each location.
(2) Parcel boundaries approximated from Monroe County Online GIS Parcel Viewer (https://www2.monroecounty.gov/gis-mapgallery)

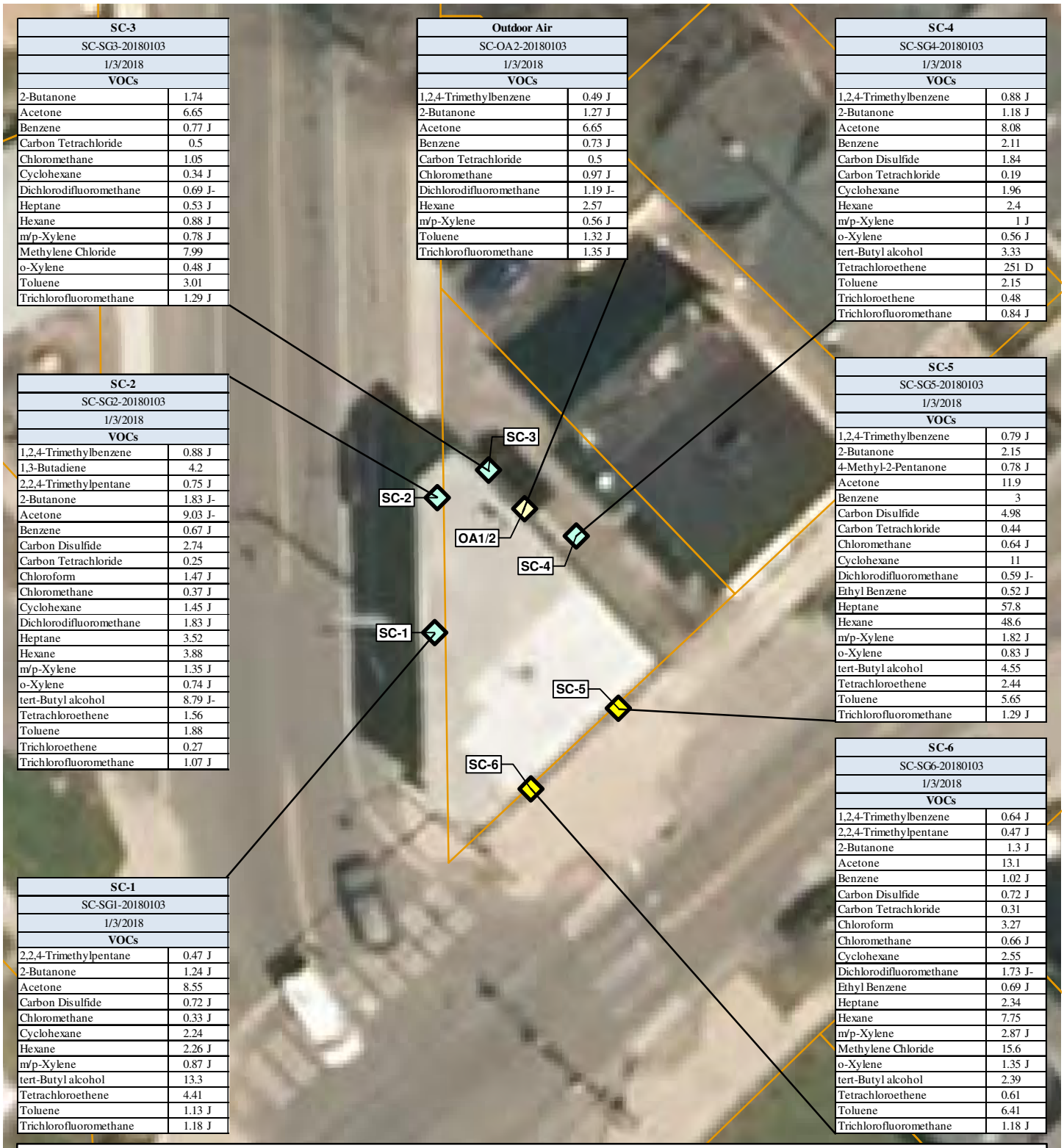
Qualifiers:
J: Approximate concentration. Result is less than RL but greater than MDL. "-" indicates estimated value may be biased low.
B: Compound found in blank and sample

Exceedance of NYSDEC Part 703.5 Class GA Standards

GROUNDWATER SAMPLING RESULTS - DETECTIONS ONLY

FORMER STAMPS CLEANERS (NYSDEC SITE # 828197)

FIGURE 4



SC-3	
SC-SG3-20180103	
1/3/2018	
VOCs	
2-Butanone	1.74
Acetone	6.65
Benzene	0.77 J
Carbon Tetrachloride	0.5
Chloromethane	1.05
Cyclohexane	0.34 J
Dichlorodifluoromethane	0.69 J-
Heptane	0.53 J
Hexane	0.88 J
m/p-Xylene	0.78 J
Methylene Chloride	7.99
o-Xylene	0.48 J
Toluene	3.01
Trichlorofluoromethane	1.29 J

Outdoor Air	
SC-OA2-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.49 J
2-Butanone	1.27 J
Acetone	6.65
Benzene	0.73 J
Carbon Tetrachloride	0.5
Chloromethane	0.97 J
Dichlorodifluoromethane	1.19 J-
Hexane	2.57
m/p-Xylene	0.56 J
Toluene	1.32 J
Trichlorofluoromethane	1.35 J

SC-4	
SC-SG4-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.88 J
2-Butanone	1.18 J
Acetone	8.08
Benzene	2.11
Carbon Disulfide	1.84
Carbon Tetrachloride	0.19
Cyclohexane	1.96
Hexane	2.4
m/p-Xylene	1 J
o-Xylene	0.56 J
tert-Butyl alcohol	3.33
Tetrachloroethene	251 D
Toluene	2.15
Trichloroethene	0.48
Trichlorofluoromethane	0.84 J

SC-2	
SC-SG2-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.88 J
1,3-Butadiene	4.2
2,2,4-Trimethylpentane	0.75 J
2-Butanone	1.83 J-
Acetone	9.03 J-
Benzene	0.67 J
Carbon Disulfide	2.74
Carbon Tetrachloride	0.25
Chloroform	1.47 J
Chloromethane	0.37 J
Cyclohexane	1.45 J
Dichlorodifluoromethane	1.83 J
Heptane	3.52
Hexane	3.88
m/p-Xylene	1.35 J
o-Xylene	0.74 J
tert-Butyl alcohol	8.79 J-
Tetrachloroethene	1.56
Toluene	1.88
Trichloroethene	0.27
Trichlorofluoromethane	1.07 J

SC-5	
SC-SG5-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.79 J
2-Butanone	2.15
4-Methyl-2-Pentanone	0.78 J
Acetone	11.9
Benzene	3
Carbon Disulfide	4.98
Carbon Tetrachloride	0.44
Chloromethane	0.64 J
Cyclohexane	11
Dichlorodifluoromethane	0.59 J-
Ethyl Benzene	0.52 J
Heptane	57.8
Hexane	48.6
m/p-Xylene	1.82 J
o-Xylene	0.83 J
tert-Butyl alcohol	4.55
Tetrachloroethene	2.44
Toluene	5.65
Trichlorofluoromethane	1.29 J

SC-1	
SC-SG1-20180103	
1/3/2018	
VOCs	
2,2,4-Trimethylpentane	0.47 J
2-Butanone	1.24 J
Acetone	8.55
Carbon Disulfide	0.72 J
Chloromethane	0.33 J
Cyclohexane	2.24
Hexane	2.26 J
m/p-Xylene	0.87 J
tert-Butyl alcohol	13.3
Tetrachloroethene	4.41
Toluene	1.13 J
Trichlorofluoromethane	1.18 J

SC-6	
SC-SG6-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.64 J
2,2,4-Trimethylpentane	0.47 J
2-Butanone	1.3 J
Acetone	13.1
Benzene	1.02 J
Carbon Disulfide	0.72 J
Carbon Tetrachloride	0.31
Chloroform	3.27
Chloromethane	0.66 J
Cyclohexane	2.55
Dichlorodifluoromethane	1.73 J-
Ethyl Benzene	0.69 J
Heptane	2.34
Hexane	7.75
m/p-Xylene	2.87 J
Methylene Chloride	15.6
o-Xylene	1.35 J
tert-Butyl alcohol	2.39
Tetrachloroethene	0.61
Toluene	6.41
Trichlorofluoromethane	1.18 J

LEGEND

- Outdoor Air Soil Gas & SVI Location Only
- Soil, Groundwater, & Soil Gas Sampling Locations
- Soil, & Soil Gas Sampling Locations Only
- Parcel Boundaries

Sample Location
Sample ID
Date (MM/DD/YYYY)
Analysis
Constituent # Q

#: Concentration (ug/m3)
Q: Qualifier
Qualifiers:
J: Approximate concentration. Result is less than RL but greater than MDL. "-" indicates estimated value may be biased low.

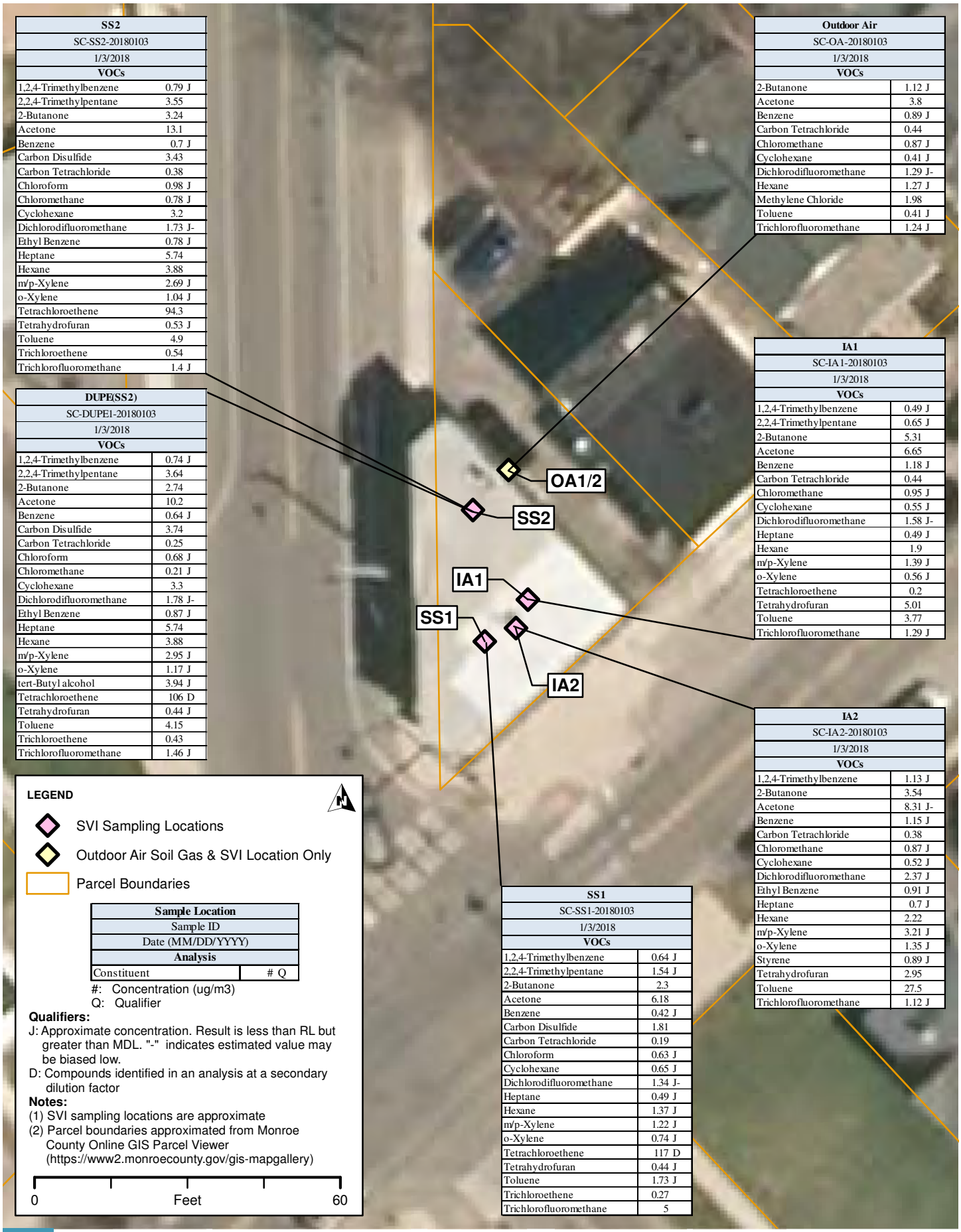
Notes:
(1) Sampling locations are approximate as the specifc soil, groundwater, and soil vapor samples were collected through multiple, adjacent borings at each location.
(2) Parcel boundaries approximated from Monroe County Online GIS Parcel Viewer (https://www2.monroecounty.gov/gis-mapgallery)

0 Feet 60

SOIL GAS SAMPLING ANALYTICAL RESULTS - DETECTIONS ONLY

FORMER STAMPS CLEANERS (NYSDEC SITE # 828197)

FIGURE 5



SS2	
SC-SS2-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.79 J
2,2,4-Trimethylpentane	3.55
2-Butanone	3.24
Acetone	13.1
Benzene	0.7 J
Carbon Disulfide	3.43
Carbon Tetrachloride	0.38
Chloroform	0.98 J
Chloromethane	0.78 J
Cyclohexane	3.2
Dichlorodifluoromethane	1.73 J-
Ethyl Benzene	0.78 J
Heptane	5.74
Hexane	3.88
m/p-Xylene	2.69 J
o-Xylene	1.04 J
Tetrachloroethene	94.3
Tetrahydrofuran	0.53 J
Toluene	4.9
Trichloroethene	0.54
Trichlorofluoromethane	1.4 J

DUPE(SS2)	
SC-DUPE1-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.74 J
2,2,4-Trimethylpentane	3.64
2-Butanone	2.74
Acetone	10.2
Benzene	0.64 J
Carbon Disulfide	3.74
Carbon Tetrachloride	0.25
Chloroform	0.68 J
Chloromethane	0.21 J
Cyclohexane	3.3
Dichlorodifluoromethane	1.78 J-
Ethyl Benzene	0.87 J
Heptane	5.74
Hexane	3.88
m/p-Xylene	2.95 J
o-Xylene	1.17 J
tert-Butyl alcohol	3.94 J
Tetrachloroethene	106 D
Tetrahydrofuran	0.44 J
Toluene	4.15
Trichloroethene	0.43
Trichlorofluoromethane	1.46 J

Outdoor Air	
SC-OA-20180103	
1/3/2018	
VOCs	
2-Butanone	1.12 J
Acetone	3.8
Benzene	0.89 J
Carbon Tetrachloride	0.44
Chloromethane	0.87 J
Cyclohexane	0.41 J
Dichlorodifluoromethane	1.29 J-
Hexane	1.27 J
Methylene Chloride	1.98
Toluene	0.41 J
Trichlorofluoromethane	1.24 J

IA1	
SC-IA1-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.49 J
2,2,4-Trimethylpentane	0.65 J
2-Butanone	5.31
Acetone	6.65
Benzene	1.18 J
Carbon Tetrachloride	0.44
Chloromethane	0.95 J
Cyclohexane	0.55 J
Dichlorodifluoromethane	1.58 J-
Heptane	0.49 J
Hexane	1.9
m/p-Xylene	1.39 J
o-Xylene	0.56 J
Tetrachloroethene	0.2
Tetrahydrofuran	5.01
Toluene	3.77
Trichlorofluoromethane	1.29 J

IA2	
SC-IA2-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	1.13 J
2-Butanone	3.54
Acetone	8.31 J-
Benzene	1.15 J
Carbon Tetrachloride	0.38
Chloromethane	0.87 J
Cyclohexane	0.52 J
Dichlorodifluoromethane	2.37 J
Ethyl Benzene	0.91 J
Heptane	0.7 J
Hexane	2.22
m/p-Xylene	3.21 J
o-Xylene	1.35 J
Styrene	0.89 J
Tetrahydrofuran	2.95
Toluene	27.5
Trichlorofluoromethane	1.12 J

SS1	
SC-SS1-20180103	
1/3/2018	
VOCs	
1,2,4-Trimethylbenzene	0.64 J
2,2,4-Trimethylpentane	1.54 J
2-Butanone	2.3
Acetone	6.18
Benzene	0.42 J
Carbon Disulfide	1.81
Carbon Tetrachloride	0.19
Chloroform	0.63 J
Cyclohexane	0.65 J
Dichlorodifluoromethane	1.34 J-
Heptane	0.49 J
Hexane	1.37 J
m/p-Xylene	1.22 J
o-Xylene	0.74 J
Tetrachloroethene	117 D
Tetrahydrofuran	0.44 J
Toluene	1.73 J
Trichloroethene	0.27
Trichlorofluoromethane	5

LEGEND

SVI Sampling Locations

Outdoor Air Soil Gas & SVI Location Only

Parcel Boundaries

Sample Location	
Sample ID	
Date (MM/DD/YYYY)	
Analysis	
Constituent	# Q

#: Concentration (ug/m3)
Q: Qualifier

Qualifiers:

J: Approximate concentration. Result is less than RL but greater than MDL. "-" indicates estimated value may be biased low.

D: Compounds identified in an analysis at a secondary dilution factor

Notes:

(1) SVI sampling locations are approximate

(2) Parcel boundaries approximated from Monroe County Online GIS Parcel Viewer (https://www2.monroecounty.gov/gis-mapgallery)

0 Feet 60

SVI ANALYTICAL RESULTS - DETECTIONS ONLY

FORMER STAMPS CLEANERS (NYSDEC SITE # 828197)

FIGURE 6

Appendix A

Field Logs

- Boring Logs
- Soil Gas Sampling Logs
- SVI Sampling Logs
- Field Notes

FIELD BORING LOG

Boring	**SC-1**
SURFACE ELEV	TBD
DATUM	
SHEET	1 **OF** 1

PROJECT NAME Former Stamps Cleaners

SITE LOCATION Rochester NY **DATE** 18-Dec-2017 **DRILLER NAME / COMPANY** Nothnagle Drilling

MONITORING INSTRUMENTATION RAE MultiRAE **HDR FIELD INSPECTOR** JCS

Depth (ft.)	Sample No.	Sample Depth (ft)	Macrocore Sample: Recov. (ft.)	Macrocore Sample: PID	Sample Description	Remarks
0	**1**	0-4'	-	0	L. brown, silty-sandy loam with clay. Tr. Gravel. Spent coal present.	Hand Clear Moist No odors
4	**2**	5-8'	2.6	0	0 - 0.7' - Silty, sandy clay. L. brown. 0.7 - 1.7' - Lean sandy clay. Sand lenses. 1.7 - 2.6' - F. sands with Tr. Gravel & Tr. Clay lenses	Wet No odors
8	**3**	8-12'	2.5	0	0 - 1.2' - Soft, wet, silty/sandy clay. L. Brown 1.2 - 1.9' - Stiff, sandy, L. Brown, lean clay 1.9 - 2.5' - Pulverized Rock + silt-sands	No odors Wet
12	4	12-15'	1	0	Wet, Pulverized rock + gravel. Refusal @ 15 feet Temp. Groundwater Sampling Point - Screen 15 - 5 ft bgs	Strong petrol odors Wet
15						

NOTES:

WOR - Weight of Rods	Proportions	Blows per 1' Compaction	Pocket Pen. (Clays only)	Strata Descriptions
WOH - Weight of Hammer	And - Equal	0 - 10 - Loose	< 0.5 - Soft	F - Fill
BOH - Bottom of Hole	Sandy - 31 - 49%	11 - 29 - Med. Compact	0.5 - 1.0 - Medium	O - Organic Deposits
NS - No Split Spoon Sample	Some - 13 - 30%	30 - 50 - Compact	1.0 - 4.0 - Stiff	S - Predominantly Sand
S___ - Split Spoon Sample	Trace - 1 - 12%	> 50 - V. Compact	> 4.0 - Hard	M - Predominantly Silt
U___ - Undisturbed Sample		50/6" - Refusal		C - Predominantly Clay

FIELD BORING LOG

Boring	**SC-2**
SURFACE ELEV	TBD
DATUM	
SHEET	1 **OF** 1

PROJECT NAME Former Stamps Cleaners

SITE LOCATION Rochester NY **DATE** 18-Dec-2017 **DRILLER NAME / COMPANY** Nothnagle Drilling

MONITORING INSTRUMENTATION RAE MultiRAE **HDR FIELD INSPECTOR** JCS

Depth (ft.)	Sample No.	Sample Depth (ft)	Macrocore Sample: Recov. (ft.)	Macrocore Sample: PID	Sample Description	Remarks
0	1	0 - 4'	-	0	0 - 1.5' - Fill - Coal & Ash intermingled with V. poorly sorted silt/sand/gravel L. Brown Remainder of hand cleared excavated soil: L. Brown, poorly sorted, silty sands	Hand Clear No odors
4	2	5-8'	2.4	0	L. Brown, silty clay with Tr. Sand & Gravel lenses	Wet No odors
8	3	8-12'	4.0	0	0 - 2' - Soft, wet, silty/sandy clay. L. Brown Tr. Gravel + Micaceous sand lenses 2 - 4' - F. sandy, stiff clay. L. Brown	No odors Wet
12	4	12-15'	3	0	0 - 1' - Soft, silty clays. Tr. F. gravel. L. Brown 1 - 2.5' - Lean clay, V. Stiff 2.5 - 3.0' - Pulverized rock / TOR - Refusal @ 15 ft bgs Temp. Groundwater Sampling Point - Screen 15 - 5 ft bgs	Slight petrol odors Wet
15						

NOTES:

WOR - Weight of Rods	Proportions	Blows per 1' Compaction	Pocket Pen. (Clays only)	Strata Descriptions
WOH - Weight of Hammer	And - Equal	0 - 10 - Loose	< 0.5 - Soft	F - Fill
BOH - Bottom of Hole	Sandy - 31 - 49%	11 - 29 - Med. Compact	0.5 - 1.0 - Medium	O - Organic Deposits
NS - No Split Spoon Sample	Some - 13 - 30%	30 - 50 - Compact	1.0 - 4.0 - Stiff	S - Predominantly Sand
S___ - Split Spoon Sample	Trace - 1 - 12%	> 50 - V. Compact	> 4.0 - Hard	M - Predominantly Silt
U___ - Undisturbed Sample		50/6" - Refusal		C - Predominantly Clay

FIELD BORING LOG

Boring	**SC-3**
SURFACE ELEV	TBD
DATUM	
SHEET	1 **OF** 1

PROJECT NAME Former Stamps Cleaners

SITE LOCATION Rochester NY **DATE** 18-Dec-2017 **DRILLER NAME / COMPANY** Nothnagle Drilling

MONITORING INSTRUMENTATION RAE MultiRAE **HDR FIELD INSPECTOR** JCS

Depth (ft.)	Sample No.	Sample Depth (ft)	Macrocore Sample: Recov. (ft.)	Macrocore Sample: PID	Sample Description	Remarks
0	**1**	0 - 4'	2.5	0	0 - 0.9' - Asphalt + Sand/Gravel base 0.9 - 2.5' - Dk. Brown, wet, sandy clay. V. poorly sorted. Black Staining. Tr. Gravel	Wet Asphalt Odors
4	**2**	4 - 8'	3	0	0 - 1.0' - Dk. Brown, silty, sandy soft clays to clayey silt. Micaceous sand lenses 1.0 - 1.2' - Pulv. Red SS/mudstone 1.2 - 2.0' - Dk. Brown, leaner silty clay / clayey silt 2.0 - 3.0' - Lt. brown, silty sandy soft clay	Wet No odors
8	**3**	8-12'	4.0	0	0 - 1.0' - Lt. Brown, sandy, silty poorly sorted 1 - 2.9' - Silty sandy lean clay to softer fat clay 2.9' - 4.0' - Stiff clay	No odors Wet
12	4	12-15'	2.7	0	0 - 0.2- (asphalt sloughing) 0.2 - 0.8' - L. brown, lean silty sandy clays. Medium softness 0.8 - 2.2' - Soft, silty clay with VF sand lenses. 2.2' - 3.0' - Pulv. Rock. TOR/Refusal @ 15 ft bgs	Strong petrol odors Wet
15					Temp. Groundwater Sampling Point - Screen 15 - 5 ft bgs	

NOTES:

WOR - Weight of Rods	Proportions	Blows per 1' Compaction	Pocket Pen. (Clays only)	Strata Descriptions
WOH - Weight of Hammer	And - Equal	0 - 10 - Loose	< 0.5 - Soft	F - Fill
BOH - Bottom of Hole	Sandy - 31 - 49%	11 - 29 - Med. Compact	0.5 - 1.0 - Medium	O - Organic Deposits
NS - No Split Spoon Sample	Some - 13 - 30%	30 - 50 - Compact	1.0 - 4.0 - Stiff	S - Predominantly Sand
S___ - Split Spoon Sample	Trace - 1 - 12%	> 50 - V. Compact	> 4.0 - Hard	M - Predominantly Silt
U___ - Undisturbed Sample		50/6" - Refusal		C - Predominantly Clay

FIELD BORING LOG

Boring	**SC-4**
SURFACE ELEV	TBD
DATUM	
SHEET	1 **OF** 1

PROJECT NAME Former Stamps Cleaners

SITE LOCATION Rochester NY **DATE** 18-Dec-2017 **DRILLER NAME / COMPANY** Nothnagle Drilling

MONITORING INSTRUMENTATION RAE MultiRAE **HDR FIELD INSPECTOR** JCS

Depth (ft.)	Sample No.	Sample Depth (ft)	Macrocore Sample: Recov. (ft.)	Macrocore Sample: PID	Sample Description	Remarks
0	**1**	0 - 4'	2.0	0	0 - 0.5' - Gravel / Asphalt 0.5 - 1.0' - Sandy, silty V. poorly sorted. Tr. Coal 1.0 - 1.4' - Higher clay content 1.4 - 2.0' - FM silty sands	Wet Asphalt odors
4	**2**	4 - 8'	2.0	0	0 - 0.8' - Dk. Brown/gray, silty, lean clay 0.8 - 2.0' - Silty lean clay	Wet No odors
8	**3**	8-11.5'	2.2	0	0 - 1.8' - Lean silty, clays. Some black streaks. 1.8' - 2.2' - Soft, sandy, silty clays. Refusal at 11.5'	Petrol odors Wet
12	4	12' - 15.5'	<1	0	Rig Offset. Second attempt to reach 15 ft successful but little recovery. V. poorly sorted mix of silty (F to X) sands / gravel. Some clays. TOR/Refusal @ 15.5 ft Temp. Groundwater Sampling Point - Screen 15.5 - 5.5 ft bgs	Wet
15						

NOTES:

WOR - Weight of Rods	Proportions	Blows per 1' Compaction	Pocket Pen. (Clays only)	Strata Descriptions
WOH - Weight of Hammer	And - Equal	0 - 10 - Loose	< 0.5 - Soft	F - Fill
BOH - Bottom of Hole	Sandy - 31 - 49%	11 - 29 - Med. Compact	0.5 - 1.0 - Medium	O - Organic Deposits
NS - No Split Spoon Sample	Some - 13 - 30%	30 - 50 - Compact	1.0 - 4.0 - Stiff	S - Predominantly Sand
S___ - Split Spoon Sample	Trace - 1 - 12%	> 50 - V. Compact	> 4.0 - Hard	M - Predominantly Silt
U___ - Undisturbed Sample		50/6" - Refusal		C - Predominantly Clay

Soil - Gas Sampling Log

Project Name:	Former Stamps Cleaners	**Crew:**	BAF, JCS
Client:	NYSDEC	**Project No.:**	10073319
Drilling/Boring Method:	Hammer Drill (indoor & 2 outdoor) Geoprobe Rig (4 outdoor)	**Date:** Start	1/2/2017
Pumping Method:		Finish	1/4/2017
Boring Location:	Rochester, NY	**Pump ID**	
Coordinates:		**Depth to Water:**	
Logged By:		**Surf. Elevation**	
Monitoring Instrument: miniRae ppbRae; Teledyne Helium detector		**Hole Diameter:**	

Sample ID	Start Time	End Time	Start Pressure	End Pressure	Purge Rate	Sample Depth (ft)	Canister ID	Regulator ID	Remarks And Observations	1 hr chk
									on push	
SC-SG3-20180103	1225	1405	-30	-5		-4	10602	10189	850 ppm 4.1% in bucket	14
SC-SG2-20180103	1220	1420	-31	-31		-1.5	10120	10230	0 ppm 6.5% in bucket	—
SC-SG1-20180103	1215	1415	-29	-6		-4	10793	10174	0 ppm 10.3% in bucket	15
SC-SG4-20180103	1227	1427	-31	-9		-4	10747	10167	0 ppm 10% in Bucket	20
SC-SG5-20180103	1232	1434	-31	-9		-4	~~10130~~ 10112	~~10104~~ 10779	0 ppm 11.4% in Bucket	21
SC-SG6-20180103	1237	1422	-28	-5		-4	10743	10108	0 ppm 11.8 %	19
SC-OA2-20180103	1237	1437	-30	-10		+5	10149	10177		23

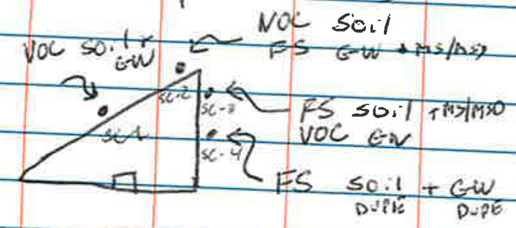
Soil - Gas Sampling Log

Project Name:	Former Stamps Cleaners	**Crew:**	BAF, JCS
Client:	NYSDEC	**Project No.:**	10073319
Drilling/Boring Method:	Hammer Drill (indoor & 2 outdoor) Geoprobe Rig (4 outdoor)	**Date:** Start	1/2/2017
Pumping Method:		Finish	1/4/2017
Boring Location:	Rochester, NY	**Pump ID**	
Coordinates:		**Depth to Water:**	
Logged By:		**Surf. Elevation**	
Monitoring Instrument: miniRae ppbRae; Teledyne Helium detector		**Hole Diameter:**	

Sample ID	Start Time	End Time	Start Pressure	End Pressure	Purge Rate	Sample Depth (ft)	Canister ID	Regulator ID	Remarks And Observations
SC-SS1-20180103	0940	0950	-27	-7		-1"	10306	10478	9.5%, 500ppm
SC-IA1-20180103	0940	0925	-31	-5		+4	10298	10772	on a stool in center of b
SC-SS2-20180103	0941	1000	-29	-6		-1"	10266	10206	Re-sealed 10%, 750ppm - Ambient
SC-DUPE1-20180103	0941	1000	-31	-6		-1"	10403	10520	
SC-IA2-20180103	0945	1011	-31	-8		+5	10322	10176	on the bar
SC-OA-20180103	0946	0855	-29	-5		+3	10440	10552	on the back ramp

12-18-17 Former Stamps Cleaners

Guidance:



- Soil @ 9 ft unless PID screening indicates otherwise
- TD = 15'

0730 - HDR on-site (JCS)
- Nothnagle (Jeff & Brian)

0815 - NYSDEC Scott Williams on-site
Mike Barber
Adan Morgan (0915)

- Tailgate safety meeting complete

0830 - Concrete core @ SC-2
↳ 1.5' refusal - footer?

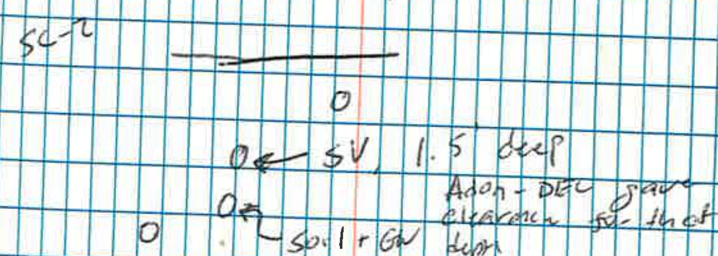
0900 - SC-2 0-1.5'
Fill - Coal & ash interming w/ v. poorly sorted silt/sand/Gravel
l. brown, no odors

0915 SC-1 - Hand clear to 4'

l. Brown silty/sandy loam w/ Clay
Gravel incl.
some coal
No odors + Musit.

0920 - SC-2 shifted 6" toward road to see if footer edge is found

0930 - USIC utility clearance



SC-2 hand cleared to 4'

1000 - SC-2 5-8'

2.4-R

L. Brown, silty clay w/
L ton sand lenses
Wet w/ Gravel. Tr.

1004 - SC-2 8'-12'

Sampled @ 1005
SC-SD-2 VOCs

4'-R

0-2' soft silty/clay
w/ Tr. Gravel &
mica lenses F. Sandy
2-4 - stiff clay
L. brown

No odor, wet.

1015 - B 12'-15'
3'-R wet except for CL
band.

0-1' - Soft silty clays
Tr. F. gravel L. brown

1-2.5' - Lean clay, V. stiff

2.5-3.0' - Ground up gravel/TOR
Refusal
Slight odor

1020 - GW sampled to try out
5-8' 2.6-R, wet, no odor
0-0.7 - Silty, Sandy, clay L. brown
wet
0.7-1.7 LC w/ Sand lens-
Sandy LC

1.7-2.6 - F. Sandy / Fr. Gravel
w/ clays

1035 - 8'-12' 2.5'-R

0-1.2 - Soft, wet, silty/sand clay - L. brown

1.2-1.9 - Stiff, sandy, L brown lean clay

1.9-2.5 - Pulv. rock + silt/sand

SC-SO-1 taken
1035 - VOCs

1040 - 12'-15.5'
1'-R
wet, sand/Pulv. gravel
petrol. smell.

1050 - SC-3 0'-4'
2.5'-R

0-0.9' - Asphalt + sand base
0.9-2.5' - Dk. br, wet, sandy clay
Mix. V poorly sorted. Black
Stain. Tr. Gravel

1100 - 4'-8' 3'-R, wet

0-1.0 Dk. br, Micaceous lean silt/sandy soft clay to clayey silt
1.0-1.2 - Pulv. red SS/mudstone
1.2-2.0 - Dk. br, lean silty clay
2.0-3.0 - Lt. brown, clayey sand
silty/sandy soft clay

1105 - 8'-12' 4'-R

0-1 - Sandy/silty mix
Lt. - dk brown, reddish brown

1-2.9 - Silty/sandy LC to FC
soft - med

2.9-4.0 - Stiff clay,

1120 - 12'-15' 2.7'-R
0-0.2 - black slough
0.2-0.8 - L brown, lean, silty sandy clay

0.8-2.2 - Soft, silty med clay
w/ VF sand lens - Rec

* 2.2-2.7 - Pulv. rock/silt/sand
stains odor

1130 - SC-SO-3
8'-10' Full suite
+ MS/MSD

1200 - Driller/DEC to lunch

1230 - Driller/Jeff to sample
SC-1
↳ 3 voas

1245 - SC4 drilling commenc.

0'-4' 2'-R, Asphalt odor

0-0.5 - Gravel/Asphalt
0.5-1.0 - Sandy silty - V. Poor, Sat
+ Coal
1.0-1.4 - High clay content
1.4-2.0 - FM Silty sands clean(2'

1255 - SC1-GW taken
- ↳ 3 voas

1300 - 4'-8' 2'-R
0-0.8 - Dk brown/Gray
Silty/Sandy Fn. Gravel
0.8-2.0 - Reddish brn
lean clay/silty
No odor

1305 - 8'-11.5' - Refusal
2.2'-R
0-1.8 - Reddish brn, lean, silty clay
Some black streaks
1.8-2.2 - mottled, soft, sandy silty clay
Petrol odors, wet

1400 - SC4-SO-4 + DUPE
taken

- Jeff installing SC4-SV
1' scr, 3' St bent.

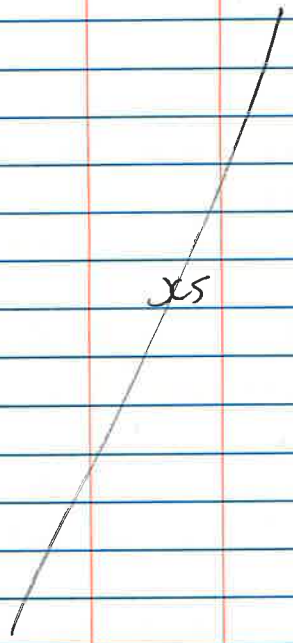
1420 - SC-2-GW + MS/MSD taken
1450 - SC-4-GW + DUPE
1505 - SC-3 taken

1520 - Field Blank

1530 - Nothnagle / DEC off-site

* All soil returned to borehole
↳ No staged IDW
All work completed

- HDR/JCS off-site



1-3-18 - Fmr Stamp Cleaner

~~SC-X-1:~~ ~~1143774.06 N~~
~~1403286.12 E~~

NAD83 (2011)
WYSP W 3103

~~SC-X-2:~~ ~~1143804.82 N~~
~~1403241.91 E~~

SC-5: 1143846.33 N
1403114.36 E

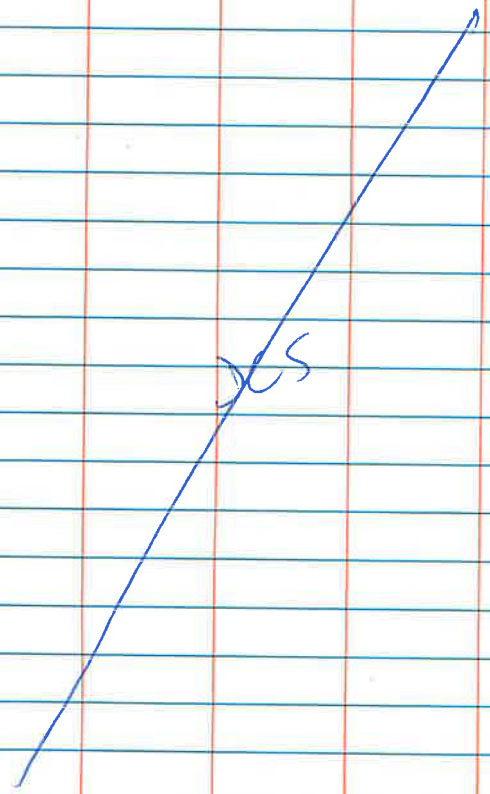
SC-6: 1143837.55 N
1403090.66 E

SC-1: 1143862.86 N
1403068.77 E

SC-2: 1143889.19 N
1403072.56 E

SC-3: 1143902.67 N
1403086.21 E

SC-4: 1143878.72 N
1403101.68 E



Appendix B

Analytical Data Summary Package – Groundwater and Soil

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-129224-1
Client Project/Site: NYSDEC - Former Stamp's Cleaners

For:
HDR Inc
16 Corporate Woods Blvd.
Ste 204
Albany, New York 12211

Attn: Barbara Firebaugh

Authorized for release by:
1/5/2018 5:26:23 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 5
Detection Summary 7
Client Sample Results 12
Surrogate Summary 49
QC Sample Results 53
QC Association Summary 94
Lab Chronicle 101
Certification Summary 106
Method Summary 107
Sample Summary 108
Chain of Custody 109
Receipt Checklists 111

Definitions/Glossary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
B	Compound was found in the blank and sample.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-129224-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-129224-1

Receipt
The samples were received on 12/20/2017 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.5º C, 1.9º C and 2.0º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-392896 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: SC2-9-20171218 (480-129224-1), SC1-9-20171218 (480-129224-2), SC3-8-10-20171218 (480-129224-3), SC4-8-10-20171218 (480-129224-4) and DUPE1-20171218 (480-129224-5).

Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-392924 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The following analytes were affected: 1,1,2,2-Tetrachloroethane, 2-Butanone (MEK), 4-Methyl-2-pentanone (MIBK), Acetone, Bromomethane and Chloroethane.

Method(s) 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory: SC1-GW-20171218 (480-129224-6), SC4-GW-20171218 (480-129224-7), DUPE2-20171218 (480-129224-8) and SC3-GW-20171218 (480-129224-9). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-393283 recovered outside acceptance criteria, low biased, for 4-Methyl-2-pentanone (MIBK). A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: SC1-GW-20171218 (480-129224-6), SC4-GW-20171218 (480-129224-7), DUPE2-20171218 (480-129224-8), SC3-GW-20171218 (480-129224-9), SC2-GW-20171218 (480-129224-10) and FB1-20171218 (480-129224-11).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-393280 recovered outside acceptance criteria, low biased, for Trichlorofluoromethane, 2-Butanone, Vinyl Chloride, Chloromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane and 1,1-Dichloroethene. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detects for these analytes, the data have been reported. The following samples are impacted: TRIP-BLANK-1 (480-129224-12) and TRIP-BLANK-2 (480-129224-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-393142 recovered above the upper control limit for Diethyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: SC3-8-10-20171218 (480-129224-3).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-393142 recovered outside acceptance criteria, low biased, for Isophorone and, N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SC4-8-10-20171218 (480-129224-4). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-393207 recovered above the upper control limit for 4-Nitroaniline and Carbazole. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SC4-GW-20171218 (480-129224-7), DUPE2-20171218 (480-129224-8), SC2-GW-20171218 (480-129224-10) and FB1-20171218 (480-129224-11).

Job ID: 480-129224-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-393207 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 480-392888 recovered outside control limits for the following analytes: Carbazole. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SC2-GW-20171218 MS (480-129224-10[MS]). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-393552 recovered above the upper control limit for 4-Nitrophenol, Di-n-butyl phthalate, Hexachlorocyclopentadiene and, Hexachlorobutadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: DUPE1-20171218 (480-129224-5).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 480-393552 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Isophorone, 2,2'-oxybis[1-chloropropane] and, N-Nitrosodi-n-propylamine. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: DUPE1-20171218 (480-129224-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The following samples are associated with a continuing calibration verification (CCV 480-393162/32) that had recoveries for the surrogate Decachlorobiphenyl that were slightly low due to matrix interferences: SC4-GW-20171218 (480-129224-7), DUPE2-20171218 (480-129224-8), SC2-GW-20171218 (480-129224-10) and FB1-20171218 (480-129224-11). Both PCB-1016 and PCB-1260 as well as the secondary surrogate Tetrachloro-m-xylene are within limits. Therefore, the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The Low Level Continuing Calibration Verification, (CCVL 480-394217/37) associated with batch 480-394217, contained Total Iron above the upper quality control limit. The associated samples were either ND for the affected analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples SC4-GW-20171218 (480-129224-7), DUPE2-20171218 (480-129224-8), SC2-GW-20171218 (480-129224-10), SC2-GW-20171218 MS (480-129224-10[MS]), SC2-GW-20171218 MSD (480-129224-10[MSD]), (480-129224-G-10-A PD) and (480-129224-G-10-A SD) was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: SC4-GW-20171218 (480-129224-7). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3550C: The following samples required a Florisil clean-up, via 3620C, to reduce matrix interferences: SC3-8-10-20171218 (480-129224-3), SC3-8-10-20171218 MS (480-129224-3[MS]), SC3-8-10-20171218 MSD (480-129224-3[MSD]), SC4-8-10-20171218 (480-129224-4) and DUPE1-20171218 (480-129224-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: SC2-9-20171218 — Lab Sample ID: 480-129224-1

No Detections.

Client Sample ID: SC1-9-20171218 — Lab Sample ID: 480-129224-2

No Detections.

Client Sample ID: SC3-8-10-20171218 — Lab Sample ID: 480-129224-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diethyl phthalate	46	J	200	26	ug/Kg	1	☼	8270D	Total/NA
Aluminum	10800	B	12.3	5.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	3.8		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	40.2		0.61	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.48		0.25	0.034	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.050	J	0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	1720	B	61.5	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.2		0.61	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.4		0.61	0.061	mg/Kg	1	☼	6010C	Total/NA
Copper	15.3	F1	1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	15200		12.3	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	7.7		1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	2020	B	24.6	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	415	B	0.25	0.039	mg/Kg	1	☼	6010C	Total/NA
Nickel	14.2		6.1	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	2780	F1	36.9	24.6	mg/Kg	1	☼	6010C	Total/NA
Sodium	184		172	16.0	mg/Kg	1	☼	6010C	Total/NA
Vanadium	22.6		0.61	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	37.3		2.5	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SC4-8-10-20171218 — Lab Sample ID: 480-129224-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	1.2	J	1.9	0.44	ug/Kg	1	☼	8081B	Total/NA
alpha-BHC	0.43	J	1.9	0.34	ug/Kg	1	☼	8081B	Total/NA
Aluminum	13400	B	11.4	5.0	mg/Kg	1	☼	6010C	Total/NA
Arsenic	4.2		2.3	0.45	mg/Kg	1	☼	6010C	Total/NA
Barium	63.9		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.60		0.23	0.032	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.044	J	0.23	0.034	mg/Kg	1	☼	6010C	Total/NA
Calcium	1870	B	56.8	3.8	mg/Kg	1	☼	6010C	Total/NA
Chromium	18.4		0.57	0.23	mg/Kg	1	☼	6010C	Total/NA
Cobalt	9.2		0.57	0.057	mg/Kg	1	☼	6010C	Total/NA
Copper	9.0		1.1	0.24	mg/Kg	1	☼	6010C	Total/NA
Iron	19300		11.4	4.0	mg/Kg	1	☼	6010C	Total/NA
Lead	9.1		1.1	0.27	mg/Kg	1	☼	6010C	Total/NA
Magnesium	3190	B	22.7	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	465	B	0.23	0.036	mg/Kg	1	☼	6010C	Total/NA
Nickel	17.6		5.7	0.26	mg/Kg	1	☼	6010C	Total/NA
Potassium	3310		34.1	22.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	158	J	159	14.8	mg/Kg	1	☼	6010C	Total/NA
Vanadium	29.7		0.57	0.13	mg/Kg	1	☼	6010C	Total/NA
Zinc	38.6		2.3	0.73	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SC4-8-10-20171218 (Continued) — Lab Sample ID: 480-129224-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.050		0.021	0.0087	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUPE1-20171218 — Lab Sample ID: 480-129224-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.77	J vs	5.7	0.77	ug/Kg	1	☼	8260C	Total/NA
Aluminum	9080	B	12.4	5.4	mg/Kg	1	☼	6010C	Total/NA
Arsenic	2.7		2.5	0.49	mg/Kg	1	☼	6010C	Total/NA
Barium	54.9		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Beryllium	0.38		0.25	0.035	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.21	J	0.25	0.037	mg/Kg	1	☼	6010C	Total/NA
Calcium	19100	B	61.9	4.1	mg/Kg	1	☼	6010C	Total/NA
Chromium	12.1		0.62	0.25	mg/Kg	1	☼	6010C	Total/NA
Cobalt	5.2		0.62	0.062	mg/Kg	1	☼	6010C	Total/NA
Copper	9.9		1.2	0.26	mg/Kg	1	☼	6010C	Total/NA
Iron	12200		12.4	4.3	mg/Kg	1	☼	6010C	Total/NA
Lead	34.5		1.2	0.30	mg/Kg	1	☼	6010C	Total/NA
Magnesium	10500	B	24.7	1.1	mg/Kg	1	☼	6010C	Total/NA
Manganese	488	B	0.25	0.040	mg/Kg	1	☼	6010C	Total/NA
Nickel	9.8		6.2	0.28	mg/Kg	1	☼	6010C	Total/NA
Potassium	1370		37.1	24.7	mg/Kg	1	☼	6010C	Total/NA
Sodium	307		173	16.1	mg/Kg	1	☼	6010C	Total/NA
Vanadium	19.2		0.62	0.14	mg/Kg	1	☼	6010C	Total/NA
Zinc	64.6		2.5	0.79	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: SC1-GW-20171218 — Lab Sample ID: 480-129224-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.7	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	2.5		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	1.6		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.9		1.0	0.16	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.8		1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	3.6		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	2.4		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: SC4-GW-20171218 — Lab Sample ID: 480-129224-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.69	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroform	2.4		1.0	0.34	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.4		1.0	0.16	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.56	J	1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	1.4		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	1.2	J	2.0	0.66	ug/L	1		8260C	Total/NA
Aluminum	34.1		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.026		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.39		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.0016	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.0069		0.0020	0.00050	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SC4-GW-20171218 (Continued) — Lab Sample ID: 480-129224-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	362		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.056		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.016		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.051		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	44.6	^	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.081		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	147		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	2.5		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.058		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	13.5	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	371		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.057		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	1.3		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00019	J	0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: DUPE2-20171218 — Lab Sample ID: 480-129224-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.64	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroform	2.4		1.0	0.34	ug/L	1		8260C	Total/NA
Cyclohexane	0.76	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.3		1.0	0.16	ug/L	1		8260C	Total/NA
Methylene Chloride	0.60	J	1.0	0.44	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.51	J	1.0	0.36	ug/L	1		8260C	Total/NA
Toluene	1.3		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	1.2	J	2.0	0.66	ug/L	1		8260C	Total/NA
delta-BHC	0.013	J	0.050	0.010	ug/L	1		8081B	Total/NA
Aluminum	45.8		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.033		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.48		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.0023		0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.0089		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	382		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.069		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.023		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.070		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	62.5	^	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.11		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	157		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	3.1		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.078		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	15.9	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	352		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.078		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	1.8		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00028		0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: SC3-GW-20171218 — Lab Sample ID: 480-129224-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: SC3-GW-20171218 (Continued) — Lab Sample ID: 480-129224-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	3.4		1.0	0.41	ug/L	1		8260C	Total/NA
Chloroform	0.50	J	1.0	0.34	ug/L	1		8260C	Total/NA
Cyclohexane	1.9		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	2.2		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	5.1		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	4.6		2.0	0.66	ug/L	1		8260C	Total/NA

Client Sample ID: SC2-GW-20171218 — Lab Sample ID: 480-129224-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.55	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chloroform	0.41	J	1.0	0.34	ug/L	1		8260C	Total/NA
Cyclohexane	0.74	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.5		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	1.1		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	1.0	J	2.0	0.66	ug/L	1		8260C	Total/NA
Aluminum	97.5		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.056		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.80		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.0044	F1	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.0068		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	473		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.15		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.070	F1	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.14		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	155	^	0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.26	F1	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	201	F2	0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	5.9		0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.23	F1	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	22.5	B F1	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	266		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.19	F1	0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	3.2		0.010	0.0015	mg/L	1		6010C	Total/NA
Mercury	0.00058		0.00020	0.00012	mg/L	1		7470A	Total/NA

Client Sample ID: FB1-20171218 — Lab Sample ID: 480-129224-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	0.20	J	0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.028	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	0.076	J	0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0028	J	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	0.24	J B	0.50	0.10	mg/L	1		6010C	Total/NA
Zinc	0.0024	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TRIP-BLANK-1 — Lab Sample ID: 480-129224-12

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: TRIP-BLANK-2 **Lab Sample ID: 480-129224-13**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: SC2-9-20171218
Date Collected: 12/18/17 10:05
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-1
Matrix: Solid
Percent Solids: 84.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.8	0.42	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,1,2,2-Tetrachloroethane	ND	vs	5.8	0.93	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.8	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,1,2-Trichloroethane	ND	vs	5.8	0.75	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,1-Dichloroethane	ND	vs	5.8	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,1-Dichloroethene	ND	vs	5.8	0.71	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,2,4-Trichlorobenzene	ND	vs	5.8	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.8	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,2-Dibromoethane	ND	vs	5.8	0.74	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,2-Dichlorobenzene	ND	vs	5.8	0.45	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,2-Dichloroethane	ND	vs	5.8	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,2-Dichloropropane	ND	vs	5.8	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,3-Dichlorobenzene	ND	vs	5.8	0.30	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
1,4-Dichlorobenzene	ND	vs	5.8	0.81	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Acetone	ND	vs	29	4.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Benzene	ND	vs	5.8	0.28	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Bromodichloromethane	ND	vs	5.8	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Bromoform	ND	vs	5.8	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Bromomethane	ND	vs	5.8	0.52	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Carbon disulfide	ND	vs	5.8	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Carbon tetrachloride	ND	vs	5.8	0.56	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Chlorobenzene	ND	vs	5.8	0.76	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Chloroethane	ND	vs	5.8	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Chloroform	ND	vs	5.8	0.36	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Chloromethane	ND	vs	5.8	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
cis-1,2-Dichloroethene	ND	vs	5.8	0.74	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
cis-1,3-Dichloropropene	ND	vs	5.8	0.83	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Cyclohexane	ND	vs	5.8	0.81	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Dibromochloromethane	ND	vs	5.8	0.74	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Dichlorodifluoromethane	ND	vs	5.8	0.48	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Ethylbenzene	ND	vs	5.8	0.40	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Isopropylbenzene	ND	vs	5.8	0.87	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Methyl tert-butyl ether	ND	vs	5.8	0.57	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Methylcyclohexane	ND	vs	5.8	0.88	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Methylene Chloride	ND	vs	5.8	2.6	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Styrene	ND	vs	5.8	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Tetrachloroethene	ND	vs	5.8	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Toluene	ND	vs	5.8	0.44	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
trans-1,2-Dichloroethene	ND	vs	5.8	0.59	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
trans-1,3-Dichloropropene	ND	vs	5.8	2.5	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Trichloroethene	ND	vs	5.8	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Trichlorofluoromethane	ND	vs	5.8	0.54	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Vinyl chloride	ND	vs	5.8	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1
Xylenes, Total	ND	vs	12	0.97	ug/Kg	☼	12/20/17 09:55	12/20/17 14:08	1

Client Sample ID: SC2-9-20171218

Lab Sample ID: 480-129224-1

Date Collected: 12/18/17 10:05
Matrix: Solid
Date Received: 12/20/17 01:00
Percent Solids: 84.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*12/20/17 09:55*	*12/20/17 14:08*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*	*12/20/17 09:55*	*12/20/17 14:08*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*12/20/17 09:55*	*12/20/17 14:08*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*12/20/17 09:55*	*12/20/17 14:08*	*1*

Client Sample ID: SC1-9-20171218

Lab Sample ID: 480-129224-2

Date Collected: 12/18/17 10:35
Matrix: Solid
Date Received: 12/20/17 01:00
Percent Solids: 84.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.93	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Acetone	ND	vs	29	4.8	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Bromodichloromethane	ND	vs	5.7	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Chloroform	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Methyl acetate	ND	vs	29	3.4	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1

Client Sample ID: SC1-9-20171218

Date Collected: 12/18/17 10:35
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-2

Matrix: Solid
Percent Solids: 84.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Tetrachloroethene	ND	vs	5.7	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	12/20/17 09:55	12/20/17 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*12/20/17 09:55*	*12/20/17 14:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*12/20/17 09:55*	*12/20/17 14:34*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*12/20/17 09:55*	*12/20/17 14:34*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/20/17 09:55*	*12/20/17 14:34*	*1*

Client Sample ID: SC3-8-10-20171218

Date Collected: 12/18/17 11:30
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-3

Matrix: Solid
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.9	0.42	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,1,2,2-Tetrachloroethane	ND	F1 vs	5.9	0.95	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.9	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,1,2-Trichloroethane	ND	vs	5.9	0.76	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,1-Dichloroethane	ND	vs	5.9	0.71	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,1-Dichloroethene	ND	vs	5.9	0.72	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,2,4-Trichlorobenzene	ND	vs	5.9	0.36	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.9	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,2-Dibromoethane	ND	vs	5.9	0.75	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,2-Dichlorobenzene	ND	vs	5.9	0.46	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,2-Dichloroethane	ND	vs	5.9	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,2-Dichloropropane	ND	vs	5.9	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,3-Dichlorobenzene	ND	vs	5.9	0.30	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
1,4-Dichlorobenzene	ND	vs	5.9	0.82	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
2-Butanone (MEK)	ND	F1 vs	29	2.1	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	29	1.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Acetone	ND	F1 vs	29	4.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Benzene	ND	vs	5.9	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Bromodichloromethane	ND	vs	5.9	0.78	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Bromoform	ND	vs	5.9	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Bromomethane	ND	F1 vs	5.9	0.53	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Carbon disulfide	ND	vs	5.9	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Carbon tetrachloride	ND	vs	5.9	0.57	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Chlorobenzene	ND	vs	5.9	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Chloroethane	ND	F1 vs	5.9	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Chloroform	ND	vs	5.9	0.36	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Chloromethane	ND	vs	5.9	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1

Client Sample ID: SC3-8-10-20171218
Date Collected: 12/18/17 11:30
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-3
Matrix: Solid
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND	vs	5.9	0.75	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
cis-1,3-Dichloropropene	ND	vs	5.9	0.84	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Cyclohexane	ND	vs	5.9	0.82	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Dibromochloromethane	ND	vs	5.9	0.75	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Dichlorodifluoromethane	ND	vs	5.9	0.48	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Ethylbenzene	ND	vs	5.9	0.40	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Isopropylbenzene	ND	vs	5.9	0.88	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Methyl tert-butyl ether	ND	vs	5.9	0.57	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Methylcyclohexane	ND	vs	5.9	0.89	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Methylene Chloride	ND	vs	5.9	2.7	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Styrene	ND	vs	5.9	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Tetrachloroethene	ND	vs	5.9	0.79	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Toluene	ND	vs	5.9	0.44	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
trans-1,2-Dichloroethene	ND	vs	5.9	0.60	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
trans-1,3-Dichloropropene	ND	vs	5.9	2.6	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Trichloroethene	ND	vs	5.9	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Trichlorofluoromethane	ND	vs	5.9	0.55	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Vinyl chloride	ND	vs	5.9	0.71	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1
Xylenes, Total	ND	vs	12	0.98	ug/Kg	☼	12/20/17 09:55	12/20/17 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*12/20/17 09:55*	*12/20/17 15:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*12/20/17 09:55*	*12/20/17 15:00*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*12/20/17 09:55*	*12/20/17 15:00*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/20/17 09:55*	*12/20/17 15:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	54	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2,4,6-Trichlorophenol	ND		200	40	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2,4-Dimethylphenol	ND		200	48	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2,4-Dinitrophenol	ND		1900	920	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2,4-Dinitrotoluene	ND		200	41	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2-Chloronaphthalene	ND		200	33	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2-Methylnaphthalene	ND		200	40	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2-Methylphenol	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2-Nitroaniline	ND		390	29	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
2-Nitrophenol	ND		200	56	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
3,3'-Dichlorobenzidine	ND		390	230	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
3-Nitroaniline	ND		390	55	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
4,6-Dinitro-2-methylphenol	ND		390	200	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
4-Chloro-3-methylphenol	ND		200	49	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
4-Chloroaniline	ND		200	49	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
4-Chlorophenyl phenyl ether	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
4-Methylphenol	ND		390	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1

Client Sample ID: SC3-8-10-20171218
Date Collected: 12/18/17 11:30
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-3
Matrix: Solid
Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		390	100	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
4-Nitrophenol	ND		390	140	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Acenaphthene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Acenaphthylene	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Acetophenone	ND		200	27	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Anthracene	ND		200	49	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Atrazine	ND		200	69	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Benzaldehyde	ND		200	160	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Benzo[b]fluoranthene	ND		200	32	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Benzo[k]fluoranthene	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Biphenyl	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
bis (2-chloroisopropyl) ether	ND		200	40	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Bis(2-chloroethoxy)methane	ND		200	42	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Bis(2-chloroethyl)ether	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Bis(2-ethylhexyl) phthalate	ND		200	68	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Butyl benzyl phthalate	ND		200	33	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Caprolactam	ND		200	60	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Carbazole	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Chrysene	ND		200	45	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Dibenz(a,h)anthracene	ND		200	35	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Dibenzofuran	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Diethyl phthalate	**46**	**J**	200	26	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Di-n-butyl phthalate	ND		200	34	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Fluoranthene	ND		200	21	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Fluorene	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Hexachlorobenzene	ND		200	27	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Hexachlorocyclopentadiene	ND		200	27	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Hexachloroethane	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Indeno[1,2,3-cd]pyrene	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Isophorone	ND		200	42	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Naphthalene	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Nitrobenzene	ND		200	22	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
N-Nitrosodi-n-propylamine	ND		200	34	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Pentachlorophenol	ND		390	200	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Phenanthrene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Phenol	ND		200	31	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1
Pyrene	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/21/17 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*54 - 120*	*12/20/17 07:48*	*12/21/17 17:22*	*1*
2-Fluorobiphenyl	*79*		*60 - 120*	*12/20/17 07:48*	*12/21/17 17:22*	*1*
2-Fluorophenol (Surr)	*59*		*52 - 120*	*12/20/17 07:48*	*12/21/17 17:22*	*1*
Nitrobenzene-d5 (Surr)	*63*		*53 - 120*	*12/20/17 07:48*	*12/21/17 17:22*	*1*

Client Sample ID: SC3-8-10-20171218
Date Collected: 12/18/17 11:30
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-3
Matrix: Solid
Percent Solids: 84.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*66*		*54 - 120*	*12/20/17 07:48*	*12/21/17 17:22*	*1*
p-Terphenyl-d14 (Surr)	*90*		*65 - 121*	*12/20/17 07:48*	*12/21/17 17:22*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		2.0	0.38	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
4,4'-DDE	ND		2.0	0.41	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
4,4'-DDT	ND		2.0	0.46	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Aldrin	ND		2.0	0.48	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
alpha-BHC	ND		2.0	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
alpha-Chlordane	ND		2.0	0.98	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
beta-BHC	ND		2.0	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
delta-BHC	ND		2.0	0.37	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Dieldrin	ND		2.0	0.47	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Endosulfan I	ND		2.0	0.38	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Endosulfan II	ND		2.0	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Endosulfan sulfate	ND		2.0	0.37	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Endrin	ND		2.0	0.39	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Endrin aldehyde	ND		2.0	0.50	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Endrin ketone	ND		2.0	0.48	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
gamma-BHC (Lindane)	ND		2.0	0.36	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
gamma-Chlordane	ND		2.0	0.62	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Heptachlor	ND		2.0	0.43	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Heptachlor epoxide	ND		2.0	0.51	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Methoxychlor	ND		2.0	0.40	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1
Toxaphene	ND		20	11	ug/Kg	☼	12/20/17 07:54	12/21/17 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*101*		*45 - 120*	*12/20/17 07:54*	*12/21/17 12:44*	*1*
DCB Decachlorobiphenyl	*105*		*45 - 120*	*12/20/17 07:54*	*12/21/17 12:44*	*1*
Tetrachloro-m-xylene	*86*		*30 - 124*	*12/20/17 07:54*	*12/21/17 12:44*	*1*
Tetrachloro-m-xylene	*73*		*30 - 124*	*12/20/17 07:54*	*12/21/17 12:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:29	1
PCB-1221	ND		0.25	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:29	1
PCB-1232	ND		0.25	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:29	1
PCB-1242	ND		0.25	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:29	1
PCB-1248	ND		0.25	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:29	1
PCB-1254	ND		0.25	0.12	mg/Kg	☼	12/20/17 07:59	12/22/17 02:29	1
PCB-1260	ND		0.25	0.12	mg/Kg	☼	12/20/17 07:59	12/22/17 02:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*113*		*60 - 154*	*12/20/17 07:59*	*12/22/17 02:29*	*1*
Tetrachloro-m-xylene	*94*		*60 - 154*	*12/20/17 07:59*	*12/22/17 02:29*	*1*
DCB Decachlorobiphenyl	*88*		*65 - 174*	*12/20/17 07:59*	*12/22/17 02:29*	*1*
DCB Decachlorobiphenyl	*85*		*65 - 174*	*12/20/17 07:59*	*12/22/17 02:29*	*1*

Client Sample ID: SC3-8-10-20171218

Date Collected: 12/18/17 11:30
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-3

Matrix: Solid
Percent Solids: 84.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10800**	**B**	12.3	5.4	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Antimony	ND	F2 F1	18.4	0.49	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Arsenic	**3.8**		2.5	0.49	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Barium	**40.2**		0.61	0.14	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Beryllium	**0.48**		0.25	0.034	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Cadmium	**0.050**	**J**	0.25	0.037	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Calcium	**1720**	**B**	61.5	4.1	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Chromium	**12.2**		0.61	0.25	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Cobalt	**5.4**		0.61	0.061	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Copper	**15.3**	**F1**	1.2	0.26	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Iron	**15200**		12.3	4.3	mg/Kg	☼	12/21/17 16:43	12/28/17 12:42	1
Lead	**7.7**		1.2	0.30	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Magnesium	**2020**	**B**	24.6	1.1	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Manganese	**415**	**B**	0.25	0.039	mg/Kg	☼	12/21/17 16:43	12/28/17 12:42	1
Nickel	**14.2**		6.1	0.28	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Potassium	**2780**	**F1**	36.9	24.6	mg/Kg	☼	12/21/17 16:43	12/28/17 12:42	1
Selenium	ND		4.9	0.49	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Silver	ND		0.74	0.25	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Sodium	**184**		172	16.0	mg/Kg	☼	12/21/17 16:43	12/28/17 12:42	1
Thallium	ND		7.4	0.37	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Vanadium	**22.6**		0.61	0.14	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1
Zinc	**37.3**		2.5	0.79	mg/Kg	☼	12/21/17 16:43	12/28/17 00:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.024	0.0099	mg/Kg	☼	12/26/17 15:15	12/26/17 17:28	1

Client Sample ID: SC4-8-10-20171218

Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-4

Matrix: Solid
Percent Solids: 86.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.42	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.93	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,1,2-Trichloroethane	ND	vs	5.7	0.75	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,2-Dibromoethane	ND	vs	5.7	0.74	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1

Client Sample ID: SC4-8-10-20171218
Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-4
Matrix: Solid
Percent Solids: 86.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	vs	29	4.8	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Bromodichloromethane	ND	vs	5.7	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Bromomethane	ND	vs	5.7	0.52	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Chlorobenzene	ND	vs	5.7	0.76	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Chloroform	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Chloromethane	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.83	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Ethylbenzene	ND	vs	5.7	0.40	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Styrene	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Tetrachloroethene	ND	vs	5.7	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	12/20/17 09:55	12/20/17 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*12/20/17 09:55*	*12/20/17 15:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*	*12/20/17 09:55*	*12/20/17 15:26*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*12/20/17 09:55*	*12/20/17 15:26*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*12/20/17 09:55*	*12/20/17 15:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2,4-Dinitrophenol	ND		1900	890	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2,4-Dinitrotoluene	ND		190	40	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1

Client Sample ID: SC4-8-10-20171218
Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-4
Matrix: Solid
Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4-Methylphenol	ND		370	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Acenaphthene	ND		190	28	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Acenaphthylene	ND		190	25	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Acetophenone	ND		190	26	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Anthracene	ND		190	47	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Atrazine	ND		190	67	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Benzaldehyde	ND		190	150	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Benzo[b]fluoranthene	ND		190	31	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Biphenyl	ND		190	28	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Bis(2-ethylhexyl) phthalate	ND		190	66	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Caprolactam	ND		190	58	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Carbazole	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Chrysene	ND		190	43	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Dibenzofuran	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Fluoranthene	ND		190	20	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Fluorene	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Hexachloroethane	ND		190	25	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Isophorone	ND		190	41	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Naphthalene	ND		190	25	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Nitrobenzene	ND		190	21	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1

Client Sample ID: SC4-8-10-20171218
Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-4
Matrix: Solid
Percent Solids: 86.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Phenanthrene	ND		190	28	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Phenol	ND		190	29	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1
Pyrene	ND		190	23	ug/Kg	☼	12/20/17 07:48	12/22/17 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*	*12/20/17 07:48*	*12/22/17 20:40*	*1*
2-Fluorobiphenyl	*77*		*60 - 120*	*12/20/17 07:48*	*12/22/17 20:40*	*1*
2-Fluorophenol (Surr)	*55*		*52 - 120*	*12/20/17 07:48*	*12/22/17 20:40*	*1*
Nitrobenzene-d5 (Surr)	*61*		*53 - 120*	*12/20/17 07:48*	*12/22/17 20:40*	*1*
Phenol-d5 (Surr)	*62*		*54 - 120*	*12/20/17 07:48*	*12/22/17 20:40*	*1*
p-Terphenyl-d14 (Surr)	*60*	*X*	*65 - 121*	*12/20/17 07:48*	*12/22/17 20:40*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
4,4'-DDT	**1.2**	**J**	1.9	0.44	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
alpha-BHC	**0.43**	**J**	1.9	0.34	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
alpha-Chlordane	ND		1.9	0.95	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Endrin	ND		1.9	0.38	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
gamma-Chlordane	ND		1.9	0.60	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1
Toxaphene	ND		19	11	ug/Kg	☼	12/20/17 07:54	12/21/17 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*45 - 120*	*12/20/17 07:54*	*12/21/17 13:03*	*1*
DCB Decachlorobiphenyl	*100*		*45 - 120*	*12/20/17 07:54*	*12/21/17 13:03*	*1*
Tetrachloro-m-xylene	*80*		*30 - 124*	*12/20/17 07:54*	*12/21/17 13:03*	*1*
Tetrachloro-m-xylene	*66*		*30 - 124*	*12/20/17 07:54*	*12/21/17 13:03*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:45	1
PCB-1221	ND		0.24	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:45	1
PCB-1232	ND		0.24	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:45	1

Client Sample ID: SC4-8-10-20171218

Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-4

Matrix: Solid
Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	ND		0.24	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:45	1
PCB-1248	ND		0.24	0.048	mg/Kg	☼	12/20/17 07:59	12/22/17 02:45	1
PCB-1254	ND		0.24	0.11	mg/Kg	☼	12/20/17 07:59	12/22/17 02:45	1
PCB-1260	ND		0.24	0.11	mg/Kg	☼	12/20/17 07:59	12/22/17 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*60 - 154*	*12/20/17 07:59*	*12/22/17 02:45*	*1*
Tetrachloro-m-xylene	*95*		*60 - 154*	*12/20/17 07:59*	*12/22/17 02:45*	*1*
DCB Decachlorobiphenyl	*83*		*65 - 174*	*12/20/17 07:59*	*12/22/17 02:45*	*1*
DCB Decachlorobiphenyl	*81*		*65 - 174*	*12/20/17 07:59*	*12/22/17 02:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13400**	**B**	11.4	5.0	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Antimony	ND		17.0	0.45	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Arsenic	**4.2**		2.3	0.45	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Barium	**63.9**		0.57	0.13	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Beryllium	**0.60**		0.23	0.032	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Cadmium	**0.044**	**J**	0.23	0.034	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Calcium	**1870**	**B**	56.8	3.8	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Chromium	**18.4**		0.57	0.23	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Cobalt	**9.2**		0.57	0.057	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Copper	**9.0**		1.1	0.24	mg/Kg	☼	12/21/17 16:43	12/28/17 13:00	1
Iron	**19300**		11.4	4.0	mg/Kg	☼	12/21/17 16:43	12/28/17 13:00	1
Lead	**9.1**		1.1	0.27	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Magnesium	**3190**	**B**	22.7	1.1	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Manganese	**465**	**B**	0.23	0.036	mg/Kg	☼	12/21/17 16:43	12/28/17 13:00	1
Nickel	**17.6**		5.7	0.26	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Potassium	**3310**		34.1	22.7	mg/Kg	☼	12/21/17 16:43	12/28/17 13:00	1
Selenium	ND		4.5	0.45	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Silver	ND		0.68	0.23	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Sodium	**158**	**J**	159	14.8	mg/Kg	☼	12/21/17 16:43	12/28/17 13:00	1
Thallium	ND		6.8	0.34	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Vanadium	**29.7**		0.57	0.13	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1
Zinc	**38.6**		2.3	0.73	mg/Kg	☼	12/21/17 16:43	12/28/17 00:32	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.050**		0.021	0.0087	mg/Kg	☼	12/26/17 15:15	12/26/17 17:38	1

Client Sample ID: DUPE1-20171218

Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-5

Matrix: Solid
Percent Solids: 84.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.42	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.93	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1

Client Sample ID: DUPE1-20171218
Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-5
Matrix: Solid
Percent Solids: 84.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,1-Dichloroethene	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,2-Dichlorobenzene	ND	vs	5.7	0.45	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,2-Dichloroethane	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,2-Dichloropropane	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
1,4-Dichlorobenzene	ND	vs	5.7	0.80	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
2-Butanone (MEK)	ND	vs	29	2.1	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
2-Hexanone	ND	vs	29	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
4-Methyl-2-pentanone (MIBK)	ND	vs	29	1.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Acetone	ND	vs	29	4.8	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Bromodichloromethane	ND	vs	5.7	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Bromoform	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Bromomethane	ND	vs	5.7	0.52	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Carbon disulfide	ND	vs	5.7	2.9	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Chlorobenzene	ND	vs	5.7	0.76	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Chloroform	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Chloromethane	ND	vs	5.7	0.35	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Cyclohexane	ND	vs	5.7	0.80	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Isopropylbenzene	ND	vs	5.7	0.86	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Methyl acetate	ND	vs	29	3.5	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Methylcyclohexane	ND	vs	5.7	0.87	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Styrene	ND	vs	5.7	0.29	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Tetrachloroethene	**0.77**	**J vs**	5.7	0.77	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.59	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Trichloroethene	ND	vs	5.7	1.3	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Vinyl chloride	ND	vs	5.7	0.70	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1
Xylenes, Total	ND	vs	11	0.96	ug/Kg	☼	12/20/17 09:55	12/20/17 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*64 - 126*	*12/20/17 09:55*	*12/20/17 15:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*12/20/17 09:55*	*12/20/17 15:51*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*	*12/20/17 09:55*	*12/20/17 15:51*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*12/20/17 09:55*	*12/20/17 15:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		200	53	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2,4,6-Trichlorophenol	ND		200	39	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2,4-Dichlorophenol	ND		200	21	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2,4-Dimethylphenol	ND		200	47	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2,4-Dinitrophenol	ND		1900	900	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2,4-Dinitrotoluene	ND		200	40	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2,6-Dinitrotoluene	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2-Chloronaphthalene	ND		200	32	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2-Chlorophenol	ND		200	36	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2-Methylnaphthalene	ND		200	39	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2-Methylphenol	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2-Nitroaniline	ND		380	29	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
2-Nitrophenol	ND		200	55	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
3,3'-Dichlorobenzidine	ND		380	230	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
3-Nitroaniline	ND		380	54	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4,6-Dinitro-2-methylphenol	ND		380	200	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4-Bromophenyl phenyl ether	ND		200	28	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4-Chloro-3-methylphenol	ND		200	48	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4-Chloroaniline	ND		200	48	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4-Chlorophenyl phenyl ether	ND		200	24	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4-Methylphenol	ND		380	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4-Nitroaniline	ND		380	100	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
4-Nitrophenol	ND		380	140	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Acenaphthene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Acenaphthylene	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Acetophenone	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Anthracene	ND		200	48	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Atrazine	ND		200	68	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Benzaldehyde	ND		200	150	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Benzo[a]anthracene	ND		200	20	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Benzo[a]pyrene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Benzo[b]fluoranthene	ND		200	31	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Benzo[g,h,i]perylene	ND		200	21	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Benzo[k]fluoranthene	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Biphenyl	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
bis (2-chloroisopropyl) ether	ND		200	39	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Bis(2-chloroethoxy)methane	ND		200	41	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Bis(2-chloroethyl)ether	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Bis(2-ethylhexyl) phthalate	ND		200	67	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Butyl benzyl phthalate	ND		200	32	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Caprolactam	ND		200	59	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Carbazole	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Chrysene	ND		200	44	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Dibenz(a,h)anthracene	ND		200	34	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Dibenzofuran	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Diethyl phthalate	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Dimethyl phthalate	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Di-n-butyl phthalate	ND		200	33	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Di-n-octyl phthalate	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Fluoranthene	ND		200	21	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Fluorene	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Hexachlorobenzene	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Hexachlorobutadiene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1

Client Sample ID: DUPE1-20171218
Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-5
Matrix: Solid
Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		200	26	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Hexachloroethane	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Indeno[1,2,3-cd]pyrene	ND		200	24	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Isophorone	ND		200	41	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Naphthalene	ND		200	25	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Nitrobenzene	ND		200	22	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
N-Nitrosodi-n-propylamine	ND		200	33	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
N-Nitrosodiphenylamine	ND		200	160	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Pentachlorophenol	ND		380	200	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Phenanthrene	ND		200	29	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Phenol	ND		200	30	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1
Pyrene	ND		200	23	ug/Kg	☼	12/20/17 07:48	12/26/17 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*54 - 120*	*12/20/17 07:48*	*12/26/17 21:55*	*1*
2-Fluorobiphenyl	*106*		*60 - 120*	*12/20/17 07:48*	*12/26/17 21:55*	*1*
2-Fluorophenol (Surr)	*61*		*52 - 120*	*12/20/17 07:48*	*12/26/17 21:55*	*1*
Nitrobenzene-d5 (Surr)	*59*		*53 - 120*	*12/20/17 07:48*	*12/26/17 21:55*	*1*
Phenol-d5 (Surr)	*64*		*54 - 120*	*12/20/17 07:48*	*12/26/17 21:55*	*1*
p-Terphenyl-d14 (Surr)	*68*		*65 - 121*	*12/20/17 07:48*	*12/26/17 21:55*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.38	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
4,4'-DDE	ND		1.9	0.41	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
alpha-BHC	ND		1.9	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
alpha-Chlordane	ND		1.9	0.96	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
beta-BHC	ND		1.9	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Endosulfan II	ND		1.9	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Endrin	ND		1.9	0.38	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
gamma-Chlordane	ND		1.9	0.61	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Heptachlor	ND		1.9	0.42	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Heptachlor epoxide	ND		1.9	0.50	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1
Toxaphene	ND		19	11	ug/Kg	☼	12/20/17 07:54	12/21/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*45 - 120*	*12/20/17 07:54*	*12/21/17 13:23*	*1*
DCB Decachlorobiphenyl	*100*		*45 - 120*	*12/20/17 07:54*	*12/21/17 13:23*	*1*
Tetrachloro-m-xylene	*78*		*30 - 124*	*12/20/17 07:54*	*12/21/17 13:23*	*1*
Tetrachloro-m-xylene	*64*		*30 - 124*	*12/20/17 07:54*	*12/21/17 13:23*	*1*

Client Sample ID: DUPE1-20171218

Date Collected: 12/18/17 14:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-5

Matrix: Solid
Percent Solids: 84.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.28	0.054	mg/Kg	☼	12/20/17 07:59	12/22/17 03:01	1
PCB-1221	ND		0.28	0.054	mg/Kg	☼	12/20/17 07:59	12/22/17 03:01	1
PCB-1232	ND		0.28	0.054	mg/Kg	☼	12/20/17 07:59	12/22/17 03:01	1
PCB-1242	ND		0.28	0.054	mg/Kg	☼	12/20/17 07:59	12/22/17 03:01	1
PCB-1248	ND		0.28	0.054	mg/Kg	☼	12/20/17 07:59	12/22/17 03:01	1
PCB-1254	ND		0.28	0.13	mg/Kg	☼	12/20/17 07:59	12/22/17 03:01	1
PCB-1260	ND		0.28	0.13	mg/Kg	☼	12/20/17 07:59	12/22/17 03:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*108*		*60 - 154*	*12/20/17 07:59*	*12/22/17 03:01*	*1*
Tetrachloro-m-xylene	*95*		*60 - 154*	*12/20/17 07:59*	*12/22/17 03:01*	*1*
DCB Decachlorobiphenyl	*86*		*65 - 174*	*12/20/17 07:59*	*12/22/17 03:01*	*1*
DCB Decachlorobiphenyl	*85*		*65 - 174*	*12/20/17 07:59*	*12/22/17 03:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9080**	**B**	12.4	5.4	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Antimony	ND		18.6	0.49	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Arsenic	**2.7**		2.5	0.49	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Barium	**54.9**		0.62	0.14	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Beryllium	**0.38**		0.25	0.035	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Cadmium	**0.21**	**J**	0.25	0.037	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Calcium	**19100**	**B**	61.9	4.1	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Chromium	**12.1**		0.62	0.25	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Cobalt	**5.2**		0.62	0.062	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Copper	**9.9**		1.2	0.26	mg/Kg	☼	12/21/17 16:43	12/28/17 13:04	1
Iron	**12200**		12.4	4.3	mg/Kg	☼	12/21/17 16:43	12/28/17 13:04	1
Lead	**34.5**		1.2	0.30	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Magnesium	**10500**	**B**	24.7	1.1	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Manganese	**488**	**B**	0.25	0.040	mg/Kg	☼	12/21/17 16:43	12/28/17 13:04	1
Nickel	**9.8**		6.2	0.28	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Potassium	**1370**		37.1	24.7	mg/Kg	☼	12/21/17 16:43	12/28/17 13:04	1
Selenium	ND		4.9	0.49	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Silver	ND		0.74	0.25	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Sodium	**307**		173	16.1	mg/Kg	☼	12/21/17 16:43	12/28/17 13:04	1
Thallium	ND		7.4	0.37	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Vanadium	**19.2**		0.62	0.14	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1
Zinc	**64.6**		2.5	0.79	mg/Kg	☼	12/21/17 16:43	12/28/17 00:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.023	0.0095	mg/Kg	☼	12/26/17 15:15	12/26/17 17:39	1

Client Sample ID: SC1-GW-20171218

Date Collected: 12/18/17 12:55
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 16:51	1

Client Sample ID: SC1-GW-20171218
Date Collected: 12/18/17 12:55
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 16:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 16:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 16:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 16:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 16:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 16:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 16:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 16:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 16:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 16:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 16:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 16:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 16:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 16:51	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 16:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 16:51	1
Acetone	**6.7**	**J**	10	3.0	ug/L			12/22/17 16:51	1
Benzene	**2.5**		1.0	0.41	ug/L			12/22/17 16:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 16:51	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 16:51	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 16:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 16:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 16:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 16:51	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 16:51	1
Chloroform	ND		1.0	0.34	ug/L			12/22/17 16:51	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 16:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 16:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 16:51	1
Cyclohexane	**1.6**		1.0	0.18	ug/L			12/22/17 16:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 16:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 16:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 16:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 16:51	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 16:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 16:51	1
Methylcyclohexane	**1.9**		1.0	0.16	ug/L			12/22/17 16:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 16:51	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 16:51	1
Tetrachloroethene	**2.8**		1.0	0.36	ug/L			12/22/17 16:51	1
Toluene	**3.6**		1.0	0.51	ug/L			12/22/17 16:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 16:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 16:51	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 16:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 16:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 16:51	1
Xylenes, Total	**2.4**		2.0	0.66	ug/L			12/22/17 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*12/22/17 16:51*	*1*

Client Sample ID: SC1-GW-20171218

Lab Sample ID: 480-129224-6
Matrix: Water
Date Collected: 12/18/17 12:55
Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*12/22/17 16:51*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*12/22/17 16:51*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/22/17 16:51*	*1*

Client Sample ID: SC4-GW-20171218

Lab Sample ID: 480-129224-7
Matrix: Water
Date Collected: 12/18/17 14:50
Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 17:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 17:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 17:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 17:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 17:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 17:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 17:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 17:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 17:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 17:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 17:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 17:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 17:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 17:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 17:18	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 17:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 17:18	1
Acetone	ND		10	3.0	ug/L			12/22/17 17:18	1
Benzene	**0.69**	**J**	1.0	0.41	ug/L			12/22/17 17:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 17:18	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 17:18	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 17:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 17:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 17:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 17:18	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 17:18	1
Chloroform	**2.4**		1.0	0.34	ug/L			12/22/17 17:18	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 17:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 17:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 17:18	1
Cyclohexane	ND		1.0	0.18	ug/L			12/22/17 17:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 17:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 17:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 17:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 17:18	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 17:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 17:18	1
Methylcyclohexane	**1.4**		1.0	0.16	ug/L			12/22/17 17:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 17:18	1

Client Sample ID: SC4-GW-20171218
Date Collected: 12/18/17 14:50
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			12/22/17 17:18	1
Tetrachloroethene	**0.56**	**J**	1.0	0.36	ug/L			12/22/17 17:18	1
Toluene	**1.4**		1.0	0.51	ug/L			12/22/17 17:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 17:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 17:18	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 17:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 17:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 17:18	1
Xylenes, Total	**1.2**	**J**	2.0	0.66	ug/L			12/22/17 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*12/22/17 17:18*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/22/17 17:18*	*1*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*12/22/17 17:18*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/22/17 17:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 12:05	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		12/20/17 08:10	12/22/17 12:05	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 12:05	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		12/20/17 08:10	12/22/17 12:05	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 12:05	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 12:05	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:05	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 12:05	1
2-Chlorophenol	ND		5.0	0.53	ug/L		12/20/17 08:10	12/22/17 12:05	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		12/20/17 08:10	12/22/17 12:05	1
2-Methylphenol	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:05	1
2-Nitroaniline	ND		10	0.42	ug/L		12/20/17 08:10	12/22/17 12:05	1
2-Nitrophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 12:05	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:05	1
3-Nitroaniline	ND		10	0.48	ug/L		12/20/17 08:10	12/22/17 12:05	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 12:05	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 12:05	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 12:05	1
4-Chloroaniline	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 12:05	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 12:05	1
4-Methylphenol	ND		10	0.36	ug/L		12/20/17 08:10	12/22/17 12:05	1
4-Nitroaniline	ND		10	0.25	ug/L		12/20/17 08:10	12/22/17 12:05	1
4-Nitrophenol	ND		10	1.5	ug/L		12/20/17 08:10	12/22/17 12:05	1
Acenaphthene	ND		5.0	0.41	ug/L		12/20/17 08:10	12/22/17 12:05	1
Acenaphthylene	ND		5.0	0.38	ug/L		12/20/17 08:10	12/22/17 12:05	1
Acetophenone	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 12:05	1
Anthracene	ND		5.0	0.28	ug/L		12/20/17 08:10	12/22/17 12:05	1
Atrazine	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 12:05	1
Benzaldehyde	ND		5.0	0.27	ug/L		12/20/17 08:10	12/22/17 12:05	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 12:05	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 12:05	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 12:05	1

Client Sample ID: SC4-GW-20171218
Date Collected: 12/18/17 14:50
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 12:05	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		12/20/17 08:10	12/22/17 12:05	1
Biphenyl	ND		5.0	0.65	ug/L		12/20/17 08:10	12/22/17 12:05	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		12/20/17 08:10	12/22/17 12:05	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 12:05	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:05	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		12/20/17 08:10	12/22/17 12:05	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		12/20/17 08:10	12/22/17 12:05	1
Caprolactam	ND		5.0	2.2	ug/L		12/20/17 08:10	12/22/17 12:05	1
Carbazole	ND	*	5.0	0.30	ug/L		12/20/17 08:10	12/22/17 12:05	1
Chrysene	ND		5.0	0.33	ug/L		12/20/17 08:10	12/22/17 12:05	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		12/20/17 08:10	12/22/17 12:05	1
Dibenzofuran	ND		10	0.51	ug/L		12/20/17 08:10	12/22/17 12:05	1
Diethyl phthalate	ND		5.0	0.22	ug/L		12/20/17 08:10	12/22/17 12:05	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 12:05	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		12/20/17 08:10	12/22/17 12:05	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 12:05	1
Fluoranthene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:05	1
Fluorene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 12:05	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 12:05	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		12/20/17 08:10	12/22/17 12:05	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 12:05	1
Hexachloroethane	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 12:05	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 12:05	1
Isophorone	ND		5.0	0.43	ug/L		12/20/17 08:10	12/22/17 12:05	1
Naphthalene	ND		5.0	0.76	ug/L		12/20/17 08:10	12/22/17 12:05	1
Nitrobenzene	ND		5.0	0.29	ug/L		12/20/17 08:10	12/22/17 12:05	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 12:05	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 12:05	1
Pentachlorophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 12:05	1
Phenanthrene	ND		5.0	0.44	ug/L		12/20/17 08:10	12/22/17 12:05	1
Phenol	ND		5.0	0.39	ug/L		12/20/17 08:10	12/22/17 12:05	1
Pyrene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*41 - 120*	*12/20/17 08:10*	*12/22/17 12:05*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*12/20/17 08:10*	*12/22/17 12:05*	*1*
2-Fluorophenol (Surr)	*73*		*35 - 120*	*12/20/17 08:10*	*12/22/17 12:05*	*1*
Nitrobenzene-d5 (Surr)	*96*		*46 - 120*	*12/20/17 08:10*	*12/22/17 12:05*	*1*
Phenol-d5 (Surr)	*57*		*22 - 120*	*12/20/17 08:10*	*12/22/17 12:05*	*1*
p-Terphenyl-d14 (Surr)	*81*		*59 - 136*	*12/20/17 08:10*	*12/22/17 12:05*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		12/20/17 08:05	12/21/17 15:20	1
4,4'-DDE	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:20	1
4,4'-DDT	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:20	1
Aldrin	ND		0.050	0.0081	ug/L		12/20/17 08:05	12/21/17 15:20	1
alpha-BHC	ND		0.050	0.0077	ug/L		12/20/17 08:05	12/21/17 15:20	1
alpha-Chlordane	ND		0.050	0.015	ug/L		12/20/17 08:05	12/21/17 15:20	1

Client Sample ID: SC4-GW-20171218
Date Collected: 12/18/17 14:50
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-7
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		0.050	0.025	ug/L		12/20/17 08:05	12/21/17 15:20	1
delta-BHC	ND		0.050	0.010	ug/L		12/20/17 08:05	12/21/17 15:20	1
Dieldrin	ND		0.050	0.0098	ug/L		12/20/17 08:05	12/21/17 15:20	1
Endosulfan I	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:20	1
Endosulfan II	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:20	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 15:20	1
Endrin	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 15:20	1
Endrin aldehyde	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 15:20	1
Endrin ketone	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:20	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		12/20/17 08:05	12/21/17 15:20	1
gamma-Chlordane	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:20	1
Heptachlor	ND		0.050	0.0085	ug/L		12/20/17 08:05	12/21/17 15:20	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		12/20/17 08:05	12/21/17 15:20	1
Methoxychlor	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 15:20	1
Toxaphene	ND		0.50	0.12	ug/L		12/20/17 08:05	12/21/17 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*21*		*20 - 120*	*12/20/17 08:05*	*12/21/17 15:20*	*1*
DCB Decachlorobiphenyl	*26*		*20 - 120*	*12/20/17 08:05*	*12/21/17 15:20*	*1*
Tetrachloro-m-xylene	*64*		*44 - 120*	*12/20/17 08:05*	*12/21/17 15:20*	*1*
Tetrachloro-m-xylene	*57*		*44 - 120*	*12/20/17 08:05*	*12/21/17 15:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.5	0.88	ug/L		12/20/17 14:26	12/21/17 23:25	1
PCB-1221	ND		2.5	0.88	ug/L		12/20/17 14:26	12/21/17 23:25	1
PCB-1232	ND		2.5	0.88	ug/L		12/20/17 14:26	12/21/17 23:25	1
PCB-1242	ND		2.5	0.88	ug/L		12/20/17 14:26	12/21/17 23:25	1
PCB-1248	ND		2.5	0.88	ug/L		12/20/17 14:26	12/21/17 23:25	1
PCB-1254	ND		2.5	1.3	ug/L		12/20/17 14:26	12/21/17 23:25	1
PCB-1260	ND		2.5	1.3	ug/L		12/20/17 14:26	12/21/17 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:25*	*1*
Tetrachloro-m-xylene	*60*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:25*	*1*
DCB Decachlorobiphenyl	*28*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:25*	*1*
DCB Decachlorobiphenyl	*27*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:25*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**34.1**		0.20	0.060	mg/L		12/21/17 08:55	12/28/17 21:08	1
Antimony	ND		0.020	0.0068	mg/L		12/21/17 08:55	12/28/17 21:08	1
Arsenic	**0.026**		0.015	0.0056	mg/L		12/21/17 08:55	12/28/17 21:08	1
Barium	**0.39**		0.0020	0.00070	mg/L		12/21/17 08:55	12/28/17 21:08	1
Beryllium	**0.0016**	**J**	0.0020	0.00030	mg/L		12/21/17 08:55	12/28/17 21:08	1
Cadmium	**0.0069**		0.0020	0.00050	mg/L		12/21/17 08:55	12/28/17 21:08	1
Calcium	**362**		0.50	0.10	mg/L		12/21/17 08:55	12/28/17 21:08	1
Chromium	**0.056**		0.0040	0.0010	mg/L		12/21/17 08:55	12/28/17 21:08	1
Cobalt	**0.016**		0.0040	0.00063	mg/L		12/21/17 08:55	12/28/17 21:08	1
Copper	**0.051**		0.010	0.0016	mg/L		12/21/17 08:55	12/28/17 21:08	1

Client Sample ID: SC4-GW-20171218

Lab Sample ID: 480-129224-7

Date Collected: 12/18/17 14:50

Matrix: Water

Date Received: 12/20/17 01:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**44.6**	**^**	0.050	0.019	mg/L		12/21/17 08:55	12/29/17 17:09	1
Lead	**0.081**		0.010	0.0030	mg/L		12/21/17 08:55	12/28/17 21:08	1
Magnesium	**147**		0.20	0.043	mg/L		12/21/17 08:55	12/29/17 17:09	1
Manganese	**2.5**		0.0030	0.00040	mg/L		12/21/17 08:55	12/29/17 17:09	1
Nickel	**0.058**		0.010	0.0013	mg/L		12/21/17 08:55	12/28/17 21:08	1
Potassium	**13.5**	**B**	0.50	0.10	mg/L		12/21/17 08:55	12/29/17 17:09	1
Selenium	ND		0.025	0.0087	mg/L		12/21/17 08:55	12/28/17 21:08	1
Silver	ND		0.0060	0.0017	mg/L		12/21/17 08:55	12/28/17 21:08	1
Sodium	**371**		1.0	0.32	mg/L		12/21/17 08:55	12/28/17 21:08	1
Thallium	ND		0.020	0.010	mg/L		12/21/17 08:55	12/28/17 21:08	1
Vanadium	**0.057**		0.0050	0.0015	mg/L		12/21/17 08:55	12/28/17 21:08	1
Zinc	**1.3**		0.010	0.0015	mg/L		12/21/17 08:55	12/28/17 21:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00019**	**J**	0.00020	0.00012	mg/L		12/26/17 13:00	12/26/17 16:10	1

Client Sample ID: DUPE2-20171218

Lab Sample ID: 480-129224-8

Date Collected: 12/18/17 14:50

Matrix: Water

Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 17:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 17:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 17:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 17:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 17:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 17:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 17:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 17:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 17:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 17:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 17:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 17:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 17:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 17:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 17:46	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 17:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 17:46	1
Acetone	ND		10	3.0	ug/L			12/22/17 17:46	1
Benzene	**0.64**	**J**	1.0	0.41	ug/L			12/22/17 17:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 17:46	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 17:46	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 17:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 17:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 17:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 17:46	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 17:46	1
Chloroform	**2.4**		1.0	0.34	ug/L			12/22/17 17:46	1

Client Sample ID: DUPE2-20171218
Date Collected: 12/18/17 14:50
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 17:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 17:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 17:46	1
Cyclohexane	**0.76**	**J**	1.0	0.18	ug/L			12/22/17 17:46	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 17:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 17:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 17:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 17:46	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 17:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 17:46	1
Methylcyclohexane	**1.3**		1.0	0.16	ug/L			12/22/17 17:46	1
Methylene Chloride	**0.60**	**J**	1.0	0.44	ug/L			12/22/17 17:46	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 17:46	1
Tetrachloroethene	**0.51**	**J**	1.0	0.36	ug/L			12/22/17 17:46	1
Toluene	**1.3**		1.0	0.51	ug/L			12/22/17 17:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 17:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 17:46	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 17:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 17:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 17:46	1
Xylenes, Total	**1.2**	**J**	2.0	0.66	ug/L			12/22/17 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*12/22/17 17:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*12/22/17 17:46*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*12/22/17 17:46*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/22/17 17:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 12:33	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		12/20/17 08:10	12/22/17 12:33	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 12:33	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		12/20/17 08:10	12/22/17 12:33	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 12:33	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 12:33	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:33	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 12:33	1
2-Chlorophenol	ND		5.0	0.53	ug/L		12/20/17 08:10	12/22/17 12:33	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		12/20/17 08:10	12/22/17 12:33	1
2-Methylphenol	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:33	1
2-Nitroaniline	ND		10	0.42	ug/L		12/20/17 08:10	12/22/17 12:33	1
2-Nitrophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 12:33	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:33	1
3-Nitroaniline	ND		10	0.48	ug/L		12/20/17 08:10	12/22/17 12:33	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 12:33	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 12:33	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 12:33	1
4-Chloroaniline	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 12:33	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 12:33	1

Client Sample ID: DUPE2-20171218
Date Collected: 12/18/17 14:50
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		10	0.36	ug/L		12/20/17 08:10	12/22/17 12:33	1
4-Nitroaniline	ND		10	0.25	ug/L		12/20/17 08:10	12/22/17 12:33	1
4-Nitrophenol	ND		10	1.5	ug/L		12/20/17 08:10	12/22/17 12:33	1
Acenaphthene	ND		5.0	0.41	ug/L		12/20/17 08:10	12/22/17 12:33	1
Acenaphthylene	ND		5.0	0.38	ug/L		12/20/17 08:10	12/22/17 12:33	1
Acetophenone	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 12:33	1
Anthracene	ND		5.0	0.28	ug/L		12/20/17 08:10	12/22/17 12:33	1
Atrazine	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 12:33	1
Benzaldehyde	ND		5.0	0.27	ug/L		12/20/17 08:10	12/22/17 12:33	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 12:33	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 12:33	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 12:33	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 12:33	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		12/20/17 08:10	12/22/17 12:33	1
Biphenyl	ND		5.0	0.65	ug/L		12/20/17 08:10	12/22/17 12:33	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		12/20/17 08:10	12/22/17 12:33	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 12:33	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:33	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		12/20/17 08:10	12/22/17 12:33	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		12/20/17 08:10	12/22/17 12:33	1
Caprolactam	ND		5.0	2.2	ug/L		12/20/17 08:10	12/22/17 12:33	1
Carbazole	ND	*	5.0	0.30	ug/L		12/20/17 08:10	12/22/17 12:33	1
Chrysene	ND		5.0	0.33	ug/L		12/20/17 08:10	12/22/17 12:33	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		12/20/17 08:10	12/22/17 12:33	1
Dibenzofuran	ND		10	0.51	ug/L		12/20/17 08:10	12/22/17 12:33	1
Diethyl phthalate	ND		5.0	0.22	ug/L		12/20/17 08:10	12/22/17 12:33	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 12:33	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		12/20/17 08:10	12/22/17 12:33	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 12:33	1
Fluoranthene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 12:33	1
Fluorene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 12:33	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 12:33	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		12/20/17 08:10	12/22/17 12:33	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 12:33	1
Hexachloroethane	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 12:33	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 12:33	1
Isophorone	ND		5.0	0.43	ug/L		12/20/17 08:10	12/22/17 12:33	1
Naphthalene	ND		5.0	0.76	ug/L		12/20/17 08:10	12/22/17 12:33	1
Nitrobenzene	ND		5.0	0.29	ug/L		12/20/17 08:10	12/22/17 12:33	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 12:33	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 12:33	1
Pentachlorophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 12:33	1
Phenanthrene	ND		5.0	0.44	ug/L		12/20/17 08:10	12/22/17 12:33	1
Phenol	ND		5.0	0.39	ug/L		12/20/17 08:10	12/22/17 12:33	1
Pyrene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*41 - 120*	*12/20/17 08:10*	*12/22/17 12:33*	*1*
2-Fluorobiphenyl	*91*		*48 - 120*	*12/20/17 08:10*	*12/22/17 12:33*	*1*
2-Fluorophenol (Surr)	*71*		*35 - 120*	*12/20/17 08:10*	*12/22/17 12:33*	*1*

Client Sample ID: DUPE2-20171218
Date Collected: 12/18/17 14:50
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*	*12/20/17 08:10*	*12/22/17 12:33*	*1*
Phenol-d5 (Surr)	*56*		*22 - 120*	*12/20/17 08:10*	*12/22/17 12:33*	*1*
p-Terphenyl-d14 (Surr)	*84*		*59 - 136*	*12/20/17 08:10*	*12/22/17 12:33*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		12/20/17 08:05	12/21/17 15:40	1
4,4'-DDE	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:40	1
4,4'-DDT	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:40	1
Aldrin	ND		0.050	0.0081	ug/L		12/20/17 08:05	12/21/17 15:40	1
alpha-BHC	ND		0.050	0.0077	ug/L		12/20/17 08:05	12/21/17 15:40	1
alpha-Chlordane	ND		0.050	0.015	ug/L		12/20/17 08:05	12/21/17 15:40	1
beta-BHC	ND		0.050	0.025	ug/L		12/20/17 08:05	12/21/17 15:40	1
delta-BHC	**0.013**	**J**	0.050	0.010	ug/L		12/20/17 08:05	12/21/17 15:40	1
Dieldrin	ND		0.050	0.0098	ug/L		12/20/17 08:05	12/21/17 15:40	1
Endosulfan I	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:40	1
Endosulfan II	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:40	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 15:40	1
Endrin	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 15:40	1
Endrin aldehyde	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 15:40	1
Endrin ketone	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:40	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		12/20/17 08:05	12/21/17 15:40	1
gamma-Chlordane	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:40	1
Heptachlor	ND		0.050	0.0085	ug/L		12/20/17 08:05	12/21/17 15:40	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		12/20/17 08:05	12/21/17 15:40	1
Methoxychlor	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 15:40	1
Toxaphene	ND		0.50	0.12	ug/L		12/20/17 08:05	12/21/17 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*23*		*20 - 120*	*12/20/17 08:05*	*12/21/17 15:40*	*1*
DCB Decachlorobiphenyl	*30*		*20 - 120*	*12/20/17 08:05*	*12/21/17 15:40*	*1*
Tetrachloro-m-xylene	*65*		*44 - 120*	*12/20/17 08:05*	*12/21/17 15:40*	*1*
Tetrachloro-m-xylene	*56*		*44 - 120*	*12/20/17 08:05*	*12/21/17 15:40*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:41	1
PCB-1221	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:41	1
PCB-1232	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:41	1
PCB-1242	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:41	1
PCB-1248	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:41	1
PCB-1254	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 23:41	1
PCB-1260	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*64*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:41*	*1*
Tetrachloro-m-xylene	*54*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:41*	*1*
DCB Decachlorobiphenyl	*35*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:41*	*1*
DCB Decachlorobiphenyl	*35*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:41*	*1*

Client Sample ID: DUPE2-20171218

Lab Sample ID: 480-129224-8
Date Collected: 12/18/17 14:50
Matrix: Water
Date Received: 12/20/17 01:00

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	45.8		0.20	0.060	mg/L		12/21/17 08:55	12/28/17 21:11	1
Antimony	ND		0.020	0.0068	mg/L		12/21/17 08:55	12/28/17 21:11	1
Arsenic	0.033		0.015	0.0056	mg/L		12/21/17 08:55	12/28/17 21:11	1
Barium	0.48		0.0020	0.00070	mg/L		12/21/17 08:55	12/28/17 21:11	1
Beryllium	0.0023		0.0020	0.00030	mg/L		12/21/17 08:55	12/28/17 21:11	1
Cadmium	0.0089		0.0020	0.00050	mg/L		12/21/17 08:55	12/28/17 21:11	1
Calcium	382		0.50	0.10	mg/L		12/21/17 08:55	12/28/17 21:11	1
Chromium	0.069		0.0040	0.0010	mg/L		12/21/17 08:55	12/28/17 21:11	1
Cobalt	0.023		0.0040	0.00063	mg/L		12/21/17 08:55	12/28/17 21:11	1
Copper	0.070		0.010	0.0016	mg/L		12/21/17 08:55	12/28/17 21:11	1
Iron	62.5	^	0.050	0.019	mg/L		12/21/17 08:55	12/29/17 17:13	1
Lead	0.11		0.010	0.0030	mg/L		12/21/17 08:55	12/28/17 21:11	1
Magnesium	157		0.20	0.043	mg/L		12/21/17 08:55	12/29/17 17:13	1
Manganese	3.1		0.0030	0.00040	mg/L		12/21/17 08:55	12/29/17 17:13	1
Nickel	0.078		0.010	0.0013	mg/L		12/21/17 08:55	12/28/17 21:11	1
Potassium	15.9	B	0.50	0.10	mg/L		12/21/17 08:55	12/29/17 17:13	1
Selenium	ND		0.025	0.0087	mg/L		12/21/17 08:55	12/28/17 21:11	1
Silver	ND		0.0060	0.0017	mg/L		12/21/17 08:55	12/28/17 21:11	1
Sodium	352		1.0	0.32	mg/L		12/21/17 08:55	12/28/17 21:11	1
Thallium	ND		0.020	0.010	mg/L		12/21/17 08:55	12/28/17 21:11	1
Vanadium	0.078		0.0050	0.0015	mg/L		12/21/17 08:55	12/28/17 21:11	1
Zinc	1.8		0.010	0.0015	mg/L		12/21/17 08:55	12/28/17 21:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00028		0.00020	0.00012	mg/L		12/26/17 13:00	12/26/17 16:12	1

Client Sample ID: SC3-GW-20171218

Lab Sample ID: 480-129224-9
Date Collected: 12/18/17 15:05
Matrix: Water
Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 18:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 18:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 18:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 18:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 18:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 18:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 18:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 18:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 18:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 18:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 18:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 18:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 18:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 18:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 18:13	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 18:13	1

Client Sample ID: SC3-GW-20171218

Lab Sample ID: 480-129224-9

Date Collected: 12/18/17 15:05

Matrix: Water

Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.4**	**J**	10	3.0	ug/L			12/22/17 18:13	1
Benzene	**3.4**		1.0	0.41	ug/L			12/22/17 18:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 18:13	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 18:13	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 18:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 18:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 18:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 18:13	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 18:13	1
Chloroform	**0.50**	**J**	1.0	0.34	ug/L			12/22/17 18:13	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 18:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 18:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 18:13	1
Cyclohexane	**1.9**		1.0	0.18	ug/L			12/22/17 18:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 18:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 18:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 18:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 18:13	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 18:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 18:13	1
Methylcyclohexane	**2.2**		1.0	0.16	ug/L			12/22/17 18:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 18:13	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 18:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/22/17 18:13	1
Toluene	**5.1**		1.0	0.51	ug/L			12/22/17 18:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 18:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 18:13	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 18:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 18:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 18:13	1
Xylenes, Total	**4.6**		2.0	0.66	ug/L			12/22/17 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*12/22/17 18:13*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/22/17 18:13*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*12/22/17 18:13*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/22/17 18:13*	*1*

Client Sample ID: SC2-GW-20171218

Lab Sample ID: 480-129224-10

Date Collected: 12/18/17 14:20

Matrix: Water

Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 18:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 18:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 18:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 18:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 18:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 18:41	1

Client Sample ID: SC2-GW-20171218
Date Collected: 12/18/17 14:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 18:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 18:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 18:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 18:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 18:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 18:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 18:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 18:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 18:41	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 18:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 18:41	1
Acetone	ND		10	3.0	ug/L			12/22/17 18:41	1
Benzene	**0.55**	**J**	1.0	0.41	ug/L			12/22/17 18:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 18:41	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 18:41	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 18:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 18:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 18:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 18:41	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 18:41	1
Chloroform	**0.41**	**J**	1.0	0.34	ug/L			12/22/17 18:41	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 18:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 18:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 18:41	1
Cyclohexane	**0.74**	**J**	1.0	0.18	ug/L			12/22/17 18:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 18:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 18:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 18:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 18:41	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 18:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 18:41	1
Methylcyclohexane	**1.5**		1.0	0.16	ug/L			12/22/17 18:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 18:41	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 18:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/22/17 18:41	1
Toluene	**1.1**		1.0	0.51	ug/L			12/22/17 18:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 18:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 18:41	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 18:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 18:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 18:41	1
Xylenes, Total	**1.0**	**J**	2.0	0.66	ug/L			12/22/17 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/22/17 18:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*12/22/17 18:41*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*12/22/17 18:41*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/22/17 18:41*	*1*

Client Sample ID: SC2-GW-20171218
Date Collected: 12/18/17 14:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-10
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 09:43	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		12/20/17 08:10	12/22/17 09:43	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 09:43	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		12/20/17 08:10	12/22/17 09:43	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 09:43	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 09:43	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 09:43	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 09:43	1
2-Chlorophenol	ND		5.0	0.53	ug/L		12/20/17 08:10	12/22/17 09:43	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		12/20/17 08:10	12/22/17 09:43	1
2-Methylphenol	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 09:43	1
2-Nitroaniline	ND		10	0.42	ug/L		12/20/17 08:10	12/22/17 09:43	1
2-Nitrophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 09:43	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 09:43	1
3-Nitroaniline	ND		10	0.48	ug/L		12/20/17 08:10	12/22/17 09:43	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 09:43	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 09:43	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 09:43	1
4-Chloroaniline	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 09:43	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 09:43	1
4-Methylphenol	ND		10	0.36	ug/L		12/20/17 08:10	12/22/17 09:43	1
4-Nitroaniline	ND		10	0.25	ug/L		12/20/17 08:10	12/22/17 09:43	1
4-Nitrophenol	ND		10	1.5	ug/L		12/20/17 08:10	12/22/17 09:43	1
Acenaphthene	ND		5.0	0.41	ug/L		12/20/17 08:10	12/22/17 09:43	1
Acenaphthylene	ND		5.0	0.38	ug/L		12/20/17 08:10	12/22/17 09:43	1
Acetophenone	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 09:43	1
Anthracene	ND		5.0	0.28	ug/L		12/20/17 08:10	12/22/17 09:43	1
Atrazine	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 09:43	1
Benzaldehyde	ND		5.0	0.27	ug/L		12/20/17 08:10	12/22/17 09:43	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 09:43	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 09:43	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 09:43	1
Benzo[g,h,i]perylene	ND	F2	5.0	0.35	ug/L		12/20/17 08:10	12/22/17 09:43	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		12/20/17 08:10	12/22/17 09:43	1
Biphenyl	ND		5.0	0.65	ug/L		12/20/17 08:10	12/22/17 09:43	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		12/20/17 08:10	12/22/17 09:43	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 09:43	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 09:43	1
Bis(2-ethylhexyl) phthalate	ND	F2	5.0	2.2	ug/L		12/20/17 08:10	12/22/17 09:43	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		12/20/17 08:10	12/22/17 09:43	1
Caprolactam	ND		5.0	2.2	ug/L		12/20/17 08:10	12/22/17 09:43	1
Carbazole	ND	*	5.0	0.30	ug/L		12/20/17 08:10	12/22/17 09:43	1
Chrysene	ND		5.0	0.33	ug/L		12/20/17 08:10	12/22/17 09:43	1
Dibenz(a,h)anthracene	ND	F2	5.0	0.42	ug/L		12/20/17 08:10	12/22/17 09:43	1
Dibenzofuran	ND		10	0.51	ug/L		12/20/17 08:10	12/22/17 09:43	1
Diethyl phthalate	ND		5.0	0.22	ug/L		12/20/17 08:10	12/22/17 09:43	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 09:43	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		12/20/17 08:10	12/22/17 09:43	1
Di-n-octyl phthalate	ND	F2	5.0	0.47	ug/L		12/20/17 08:10	12/22/17 09:43	1

Client Sample ID: SC2-GW-20171218
Date Collected: 12/18/17 14:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-10
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 09:43	1
Fluorene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 09:43	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 09:43	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		12/20/17 08:10	12/22/17 09:43	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 09:43	1
Hexachloroethane	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 09:43	1
Indeno[1,2,3-cd]pyrene	ND	F2	5.0	0.47	ug/L		12/20/17 08:10	12/22/17 09:43	1
Isophorone	ND		5.0	0.43	ug/L		12/20/17 08:10	12/22/17 09:43	1
Naphthalene	ND		5.0	0.76	ug/L		12/20/17 08:10	12/22/17 09:43	1
Nitrobenzene	ND		5.0	0.29	ug/L		12/20/17 08:10	12/22/17 09:43	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 09:43	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 09:43	1
Pentachlorophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 09:43	1
Phenanthrene	ND		5.0	0.44	ug/L		12/20/17 08:10	12/22/17 09:43	1
Phenol	ND		5.0	0.39	ug/L		12/20/17 08:10	12/22/17 09:43	1
Pyrene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 09:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*41 - 120*	*12/20/17 08:10*	*12/22/17 09:43*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*12/20/17 08:10*	*12/22/17 09:43*	*1*
2-Fluorophenol (Surr)	*73*		*35 - 120*	*12/20/17 08:10*	*12/22/17 09:43*	*1*
Nitrobenzene-d5 (Surr)	*98*		*46 - 120*	*12/20/17 08:10*	*12/22/17 09:43*	*1*
Phenol-d5 (Surr)	*57*		*22 - 120*	*12/20/17 08:10*	*12/22/17 09:43*	*1*
p-Terphenyl-d14 (Surr)	*90*		*59 - 136*	*12/20/17 08:10*	*12/22/17 09:43*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		12/20/17 08:05	12/21/17 15:01	1
4,4'-DDE	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:01	1
4,4'-DDT	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:01	1
Aldrin	ND		0.050	0.0081	ug/L		12/20/17 08:05	12/21/17 15:01	1
alpha-BHC	ND		0.050	0.0077	ug/L		12/20/17 08:05	12/21/17 15:01	1
alpha-Chlordane	ND		0.050	0.015	ug/L		12/20/17 08:05	12/21/17 15:01	1
beta-BHC	ND		0.050	0.025	ug/L		12/20/17 08:05	12/21/17 15:01	1
delta-BHC	ND		0.050	0.010	ug/L		12/20/17 08:05	12/21/17 15:01	1
Dieldrin	ND		0.050	0.0098	ug/L		12/20/17 08:05	12/21/17 15:01	1
Endosulfan I	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:01	1
Endosulfan II	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:01	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 15:01	1
Endrin	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 15:01	1
Endrin aldehyde	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 15:01	1
Endrin ketone	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 15:01	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		12/20/17 08:05	12/21/17 15:01	1
gamma-Chlordane	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 15:01	1
Heptachlor	ND		0.050	0.0085	ug/L		12/20/17 08:05	12/21/17 15:01	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		12/20/17 08:05	12/21/17 15:01	1
Methoxychlor	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 15:01	1
Toxaphene	ND		0.50	0.12	ug/L		12/20/17 08:05	12/21/17 15:01	1

Client Sample ID: SC2-GW-20171218

Date Collected: 12/18/17 14:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-10

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*19*	*X*	*20 - 120*	*12/20/17 08:05*	*12/21/17 15:01*	*1*
DCB Decachlorobiphenyl	*21*		*20 - 120*	*12/20/17 08:05*	*12/21/17 15:01*	*1*
Tetrachloro-m-xylene	*68*		*44 - 120*	*12/20/17 08:05*	*12/21/17 15:01*	*1*
Tetrachloro-m-xylene	*60*		*44 - 120*	*12/20/17 08:05*	*12/21/17 15:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:09	1
PCB-1221	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:09	1
PCB-1232	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:09	1
PCB-1242	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:09	1
PCB-1248	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:09	1
PCB-1254	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 23:09	1
PCB-1260	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:09*	*1*
Tetrachloro-m-xylene	*53*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:09*	*1*
DCB Decachlorobiphenyl	*25*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:09*	*1*
DCB Decachlorobiphenyl	*24*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**97.5**		0.20	0.060	mg/L		12/21/17 08:55	12/28/17 21:15	1
Antimony	ND	F1 F2	0.020	0.0068	mg/L		12/21/17 08:55	12/28/17 21:15	1
Arsenic	**0.056**		0.015	0.0056	mg/L		12/21/17 08:55	12/28/17 21:15	1
Barium	**0.80**		0.0020	0.00070	mg/L		12/21/17 08:55	12/28/17 21:15	1
Beryllium	**0.0044**	**F1**	0.0020	0.00030	mg/L		12/21/17 08:55	12/28/17 21:15	1
Cadmium	**0.0068**		0.0020	0.00050	mg/L		12/21/17 08:55	12/28/17 21:15	1
Calcium	**473**		0.50	0.10	mg/L		12/21/17 08:55	12/28/17 21:15	1
Chromium	**0.15**		0.0040	0.0010	mg/L		12/21/17 08:55	12/28/17 21:15	1
Cobalt	**0.070**	**F1**	0.0040	0.00063	mg/L		12/21/17 08:55	12/28/17 21:15	1
Copper	**0.14**		0.010	0.0016	mg/L		12/21/17 08:55	12/28/17 21:15	1
Iron	**155**	**^**	0.050	0.019	mg/L		12/21/17 08:55	12/29/17 17:27	1
Lead	**0.26**	**F1**	0.010	0.0030	mg/L		12/21/17 08:55	12/28/17 21:15	1
Magnesium	**201**	**F2**	0.20	0.043	mg/L		12/21/17 08:55	12/29/17 17:27	1
Manganese	**5.9**		0.0030	0.00040	mg/L		12/21/17 08:55	12/29/17 17:27	1
Nickel	**0.23**	**F1**	0.010	0.0013	mg/L		12/21/17 08:55	12/28/17 21:15	1
Potassium	**22.5**	**B F1**	0.50	0.10	mg/L		12/21/17 08:55	12/29/17 17:27	1
Selenium	ND	F1	0.025	0.0087	mg/L		12/21/17 08:55	12/28/17 21:15	1
Silver	ND		0.0060	0.0017	mg/L		12/21/17 08:55	12/28/17 21:15	1
Sodium	**266**		1.0	0.32	mg/L		12/21/17 08:55	12/28/17 21:15	1
Thallium	ND		0.020	0.010	mg/L		12/21/17 08:55	12/28/17 21:15	1
Vanadium	**0.19**	**F1**	0.0050	0.0015	mg/L		12/21/17 08:55	12/28/17 21:15	1
Zinc	**3.2**		0.010	0.0015	mg/L		12/21/17 08:55	12/28/17 21:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00058**		0.00020	0.00012	mg/L		12/26/17 13:00	12/26/17 16:14	1

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: FB1-20171218
Date Collected: 12/18/17 15:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 19:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 19:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 19:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 19:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 19:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 19:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 19:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 19:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 19:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 19:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 19:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 19:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 19:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 19:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 19:08	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 19:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 19:08	1
Acetone	ND		10	3.0	ug/L			12/22/17 19:08	1
Benzene	ND		1.0	0.41	ug/L			12/22/17 19:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 19:08	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 19:08	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 19:08	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 19:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 19:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 19:08	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 19:08	1
Chloroform	ND		1.0	0.34	ug/L			12/22/17 19:08	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 19:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 19:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 19:08	1
Cyclohexane	ND		1.0	0.18	ug/L			12/22/17 19:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 19:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 19:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 19:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 19:08	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 19:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 19:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/22/17 19:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 19:08	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 19:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/22/17 19:08	1
Toluene	ND		1.0	0.51	ug/L			12/22/17 19:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 19:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 19:08	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 19:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 19:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 19:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/22/17 19:08	1

Client Sample ID: FB1-20171218

Date Collected: 12/18/17 15:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/22/17 19:08*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/22/17 19:08*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*12/22/17 19:08*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/22/17 19:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.2	0.50	ug/L		12/20/17 08:10	12/22/17 13:02	1
2,4,6-Trichlorophenol	ND		5.2	0.64	ug/L		12/20/17 08:10	12/22/17 13:02	1
2,4-Dichlorophenol	ND		5.2	0.53	ug/L		12/20/17 08:10	12/22/17 13:02	1
2,4-Dimethylphenol	ND		5.2	0.52	ug/L		12/20/17 08:10	12/22/17 13:02	1
2,4-Dinitrophenol	ND		10	2.3	ug/L		12/20/17 08:10	12/22/17 13:02	1
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L		12/20/17 08:10	12/22/17 13:02	1
2,6-Dinitrotoluene	ND		5.2	0.42	ug/L		12/20/17 08:10	12/22/17 13:02	1
2-Chloronaphthalene	ND		5.2	0.48	ug/L		12/20/17 08:10	12/22/17 13:02	1
2-Chlorophenol	ND		5.2	0.55	ug/L		12/20/17 08:10	12/22/17 13:02	1
2-Methylnaphthalene	ND		5.2	0.63	ug/L		12/20/17 08:10	12/22/17 13:02	1
2-Methylphenol	ND		5.2	0.42	ug/L		12/20/17 08:10	12/22/17 13:02	1
2-Nitroaniline	ND		10	0.44	ug/L		12/20/17 08:10	12/22/17 13:02	1
2-Nitrophenol	ND		5.2	0.50	ug/L		12/20/17 08:10	12/22/17 13:02	1
3,3'-Dichlorobenzidine	ND		5.2	0.42	ug/L		12/20/17 08:10	12/22/17 13:02	1
3-Nitroaniline	ND		10	0.50	ug/L		12/20/17 08:10	12/22/17 13:02	1
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L		12/20/17 08:10	12/22/17 13:02	1
4-Bromophenyl phenyl ether	ND		5.2	0.47	ug/L		12/20/17 08:10	12/22/17 13:02	1
4-Chloro-3-methylphenol	ND		5.2	0.47	ug/L		12/20/17 08:10	12/22/17 13:02	1
4-Chloroaniline	ND		5.2	0.61	ug/L		12/20/17 08:10	12/22/17 13:02	1
4-Chlorophenyl phenyl ether	ND		5.2	0.36	ug/L		12/20/17 08:10	12/22/17 13:02	1
4-Methylphenol	ND		10	0.38	ug/L		12/20/17 08:10	12/22/17 13:02	1
4-Nitroaniline	ND		10	0.26	ug/L		12/20/17 08:10	12/22/17 13:02	1
4-Nitrophenol	ND		10	1.6	ug/L		12/20/17 08:10	12/22/17 13:02	1
Acenaphthene	ND		5.2	0.43	ug/L		12/20/17 08:10	12/22/17 13:02	1
Acenaphthylene	ND		5.2	0.40	ug/L		12/20/17 08:10	12/22/17 13:02	1
Acetophenone	ND		5.2	0.56	ug/L		12/20/17 08:10	12/22/17 13:02	1
Anthracene	ND		5.2	0.29	ug/L		12/20/17 08:10	12/22/17 13:02	1
Atrazine	ND		5.2	0.48	ug/L		12/20/17 08:10	12/22/17 13:02	1
Benzaldehyde	ND		5.2	0.28	ug/L		12/20/17 08:10	12/22/17 13:02	1
Benzo[a]anthracene	ND		5.2	0.38	ug/L		12/20/17 08:10	12/22/17 13:02	1
Benzo[a]pyrene	ND		5.2	0.49	ug/L		12/20/17 08:10	12/22/17 13:02	1
Benzo[b]fluoranthene	ND		5.2	0.35	ug/L		12/20/17 08:10	12/22/17 13:02	1
Benzo[g,h,i]perylene	ND		5.2	0.36	ug/L		12/20/17 08:10	12/22/17 13:02	1
Benzo[k]fluoranthene	ND		5.2	0.76	ug/L		12/20/17 08:10	12/22/17 13:02	1
Biphenyl	ND		5.2	0.68	ug/L		12/20/17 08:10	12/22/17 13:02	1
bis (2-chloroisopropyl) ether	ND		5.2	0.54	ug/L		12/20/17 08:10	12/22/17 13:02	1
Bis(2-chloroethoxy)methane	ND		5.2	0.36	ug/L		12/20/17 08:10	12/22/17 13:02	1
Bis(2-chloroethyl)ether	ND		5.2	0.42	ug/L		12/20/17 08:10	12/22/17 13:02	1
Bis(2-ethylhexyl) phthalate	ND		5.2	2.3	ug/L		12/20/17 08:10	12/22/17 13:02	1
Butyl benzyl phthalate	ND		5.2	1.0	ug/L		12/20/17 08:10	12/22/17 13:02	1
Caprolactam	ND		5.2	2.3	ug/L		12/20/17 08:10	12/22/17 13:02	1
Carbazole	ND	*	5.2	0.31	ug/L		12/20/17 08:10	12/22/17 13:02	1
Chrysene	ND		5.2	0.34	ug/L		12/20/17 08:10	12/22/17 13:02	1

Client Sample ID: FB1-20171218
Date Collected: 12/18/17 15:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-11
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		5.2	0.44	ug/L		12/20/17 08:10	12/22/17 13:02	1
Dibenzofuran	ND		10	0.53	ug/L		12/20/17 08:10	12/22/17 13:02	1
Diethyl phthalate	ND		5.2	0.23	ug/L		12/20/17 08:10	12/22/17 13:02	1
Dimethyl phthalate	ND		5.2	0.38	ug/L		12/20/17 08:10	12/22/17 13:02	1
Di-n-butyl phthalate	ND		5.2	0.32	ug/L		12/20/17 08:10	12/22/17 13:02	1
Di-n-octyl phthalate	ND		5.2	0.49	ug/L		12/20/17 08:10	12/22/17 13:02	1
Fluoranthene	ND		5.2	0.42	ug/L		12/20/17 08:10	12/22/17 13:02	1
Fluorene	ND		5.2	0.38	ug/L		12/20/17 08:10	12/22/17 13:02	1
Hexachlorobenzene	ND		5.2	0.53	ug/L		12/20/17 08:10	12/22/17 13:02	1
Hexachlorobutadiene	ND		5.2	0.71	ug/L		12/20/17 08:10	12/22/17 13:02	1
Hexachlorocyclopentadiene	ND		5.2	0.61	ug/L		12/20/17 08:10	12/22/17 13:02	1
Hexachloroethane	ND		5.2	0.61	ug/L		12/20/17 08:10	12/22/17 13:02	1
Indeno[1,2,3-cd]pyrene	ND		5.2	0.49	ug/L		12/20/17 08:10	12/22/17 13:02	1
Isophorone	ND		5.2	0.45	ug/L		12/20/17 08:10	12/22/17 13:02	1
Naphthalene	ND		5.2	0.79	ug/L		12/20/17 08:10	12/22/17 13:02	1
Nitrobenzene	ND		5.2	0.30	ug/L		12/20/17 08:10	12/22/17 13:02	1
N-Nitrosodi-n-propylamine	ND		5.2	0.56	ug/L		12/20/17 08:10	12/22/17 13:02	1
N-Nitrosodiphenylamine	ND		5.2	0.53	ug/L		12/20/17 08:10	12/22/17 13:02	1
Pentachlorophenol	ND		10	2.3	ug/L		12/20/17 08:10	12/22/17 13:02	1
Phenanthrene	ND		5.2	0.46	ug/L		12/20/17 08:10	12/22/17 13:02	1
Phenol	ND		5.2	0.41	ug/L		12/20/17 08:10	12/22/17 13:02	1
Pyrene	ND		5.2	0.35	ug/L		12/20/17 08:10	12/22/17 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*41 - 120*	*12/20/17 08:10*	*12/22/17 13:02*	*1*
2-Fluorobiphenyl	*90*		*48 - 120*	*12/20/17 08:10*	*12/22/17 13:02*	*1*
2-Fluorophenol (Surr)	*68*		*35 - 120*	*12/20/17 08:10*	*12/22/17 13:02*	*1*
Nitrobenzene-d5 (Surr)	*93*		*46 - 120*	*12/20/17 08:10*	*12/22/17 13:02*	*1*
Phenol-d5 (Surr)	*55*		*22 - 120*	*12/20/17 08:10*	*12/22/17 13:02*	*1*
p-Terphenyl-d14 (Surr)	*102*		*59 - 136*	*12/20/17 08:10*	*12/22/17 13:02*	*1*

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.060	0.011	ug/L		12/20/17 08:05	12/21/17 16:00	1
4,4'-DDE	ND		0.060	0.014	ug/L		12/20/17 08:05	12/21/17 16:00	1
4,4'-DDT	ND		0.060	0.013	ug/L		12/20/17 08:05	12/21/17 16:00	1
Aldrin	ND		0.060	0.0096	ug/L		12/20/17 08:05	12/21/17 16:00	1
alpha-BHC	ND		0.060	0.0092	ug/L		12/20/17 08:05	12/21/17 16:00	1
alpha-Chlordane	ND		0.060	0.018	ug/L		12/20/17 08:05	12/21/17 16:00	1
beta-BHC	ND		0.060	0.030	ug/L		12/20/17 08:05	12/21/17 16:00	1
delta-BHC	ND		0.060	0.012	ug/L		12/20/17 08:05	12/21/17 16:00	1
Dieldrin	ND		0.060	0.012	ug/L		12/20/17 08:05	12/21/17 16:00	1
Endosulfan I	ND		0.060	0.013	ug/L		12/20/17 08:05	12/21/17 16:00	1
Endosulfan II	ND		0.060	0.014	ug/L		12/20/17 08:05	12/21/17 16:00	1
Endosulfan sulfate	ND		0.060	0.019	ug/L		12/20/17 08:05	12/21/17 16:00	1
Endrin	ND		0.060	0.016	ug/L		12/20/17 08:05	12/21/17 16:00	1
Endrin aldehyde	ND		0.060	0.019	ug/L		12/20/17 08:05	12/21/17 16:00	1
Endrin ketone	ND		0.060	0.014	ug/L		12/20/17 08:05	12/21/17 16:00	1
gamma-BHC (Lindane)	ND		0.060	0.0095	ug/L		12/20/17 08:05	12/21/17 16:00	1
gamma-Chlordane	ND		0.060	0.013	ug/L		12/20/17 08:05	12/21/17 16:00	1

Client Sample ID: FB1-20171218
Date Collected: 12/18/17 15:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-11
Matrix: Water

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	ND		0.060	0.010	ug/L		12/20/17 08:05	12/21/17 16:00	1
Heptachlor epoxide	ND		0.060	0.0088	ug/L		12/20/17 08:05	12/21/17 16:00	1
Methoxychlor	ND		0.060	0.017	ug/L		12/20/17 08:05	12/21/17 16:00	1
Toxaphene	ND		0.60	0.14	ug/L		12/20/17 08:05	12/21/17 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*23*		*20 - 120*	*12/20/17 08:05*	*12/21/17 16:00*	*1*
DCB Decachlorobiphenyl	*25*		*20 - 120*	*12/20/17 08:05*	*12/21/17 16:00*	*1*
Tetrachloro-m-xylene	*65*		*44 - 120*	*12/20/17 08:05*	*12/21/17 16:00*	*1*
Tetrachloro-m-xylene	*58*		*44 - 120*	*12/20/17 08:05*	*12/21/17 16:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:57	1
PCB-1221	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:57	1
PCB-1232	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:57	1
PCB-1242	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:57	1
PCB-1248	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 23:57	1
PCB-1254	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 23:57	1
PCB-1260	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:57*	*1*
Tetrachloro-m-xylene	*63*		*39 - 121*	*12/20/17 14:26*	*12/21/17 23:57*	*1*
DCB Decachlorobiphenyl	*45*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:57*	*1*
DCB Decachlorobiphenyl	*44*		*19 - 120*	*12/20/17 14:26*	*12/21/17 23:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/21/17 08:55	12/28/17 21:45	1
Antimony	ND		0.020	0.0068	mg/L		12/21/17 08:55	12/28/17 21:45	1
Arsenic	ND		0.015	0.0056	mg/L		12/21/17 08:55	12/29/17 17:46	1
Barium	ND		0.0020	0.00070	mg/L		12/21/17 08:55	12/28/17 21:45	1
Beryllium	ND		0.0020	0.00030	mg/L		12/21/17 08:55	12/28/17 21:45	1
Cadmium	ND		0.0020	0.00050	mg/L		12/21/17 08:55	12/28/17 21:45	1
Calcium	**0.20**	**J**	0.50	0.10	mg/L		12/21/17 08:55	12/28/17 21:45	1
Chromium	ND		0.0040	0.0010	mg/L		12/21/17 08:55	12/28/17 21:45	1
Cobalt	ND		0.0040	0.00063	mg/L		12/21/17 08:55	12/28/17 21:45	1
Copper	ND		0.010	0.0016	mg/L		12/21/17 08:55	12/28/17 21:45	1
Iron	**0.028**	**J**	0.050	0.019	mg/L		12/21/17 08:55	01/05/18 14:54	1
Lead	ND		0.010	0.0030	mg/L		12/21/17 08:55	12/28/17 21:45	1
Magnesium	**0.076**	**J**	0.20	0.043	mg/L		12/21/17 08:55	12/29/17 17:46	1
Manganese	**0.0028**	**J**	0.0030	0.00040	mg/L		12/21/17 08:55	12/29/17 17:46	1
Nickel	ND		0.010	0.0013	mg/L		12/21/17 08:55	12/28/17 21:45	1
Potassium	**0.24**	**J B**	0.50	0.10	mg/L		12/21/17 08:55	12/29/17 17:46	1
Selenium	ND		0.025	0.0087	mg/L		12/21/17 08:55	12/28/17 21:45	1
Silver	ND		0.0060	0.0017	mg/L		12/21/17 08:55	12/28/17 21:45	1
Sodium	ND		1.0	0.32	mg/L		12/21/17 08:55	12/28/17 21:45	1
Thallium	ND		0.020	0.010	mg/L		12/21/17 08:55	12/28/17 21:45	1
Vanadium	ND		0.0050	0.0015	mg/L		12/21/17 08:55	12/28/17 21:45	1

Client Sample ID: FB1-20171218

Lab Sample ID: 480-129224-11
Matrix: Water
Date Collected: 12/18/17 15:20
Date Received: 12/20/17 01:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	0.0024	J	0.010	0.0015	mg/L		12/21/17 08:55	12/28/17 21:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/26/17 13:00	12/26/17 16:22	1

Client Sample ID: TRIP-BLANK-1

Lab Sample ID: 480-129224-12
Matrix: Water
Date Collected: 12/18/17 00:00
Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 16:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 16:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 16:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 16:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 16:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 16:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 16:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 16:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 16:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 16:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 16:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 16:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 16:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 16:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 16:44	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 16:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 16:44	1
Acetone	ND		10	3.0	ug/L			12/22/17 16:44	1
Benzene	ND		1.0	0.41	ug/L			12/22/17 16:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 16:44	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 16:44	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 16:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 16:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 16:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 16:44	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 16:44	1
Chloroform	ND		1.0	0.34	ug/L			12/22/17 16:44	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 16:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 16:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 16:44	1
Cyclohexane	ND		1.0	0.18	ug/L			12/22/17 16:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 16:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 16:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 16:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 16:44	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 16:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 16:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/22/17 16:44	1

Client Sample ID: TRIP-BLANK-1

Lab Sample ID: 480-129224-12

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 16:44	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 16:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/22/17 16:44	1
Toluene	ND		1.0	0.51	ug/L			12/22/17 16:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 16:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 16:44	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 16:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 16:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 16:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/22/17 16:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*		*12/22/17 16:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/22/17 16:44*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 123*		*12/22/17 16:44*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/22/17 16:44*	*1*

Client Sample ID: TRIP-BLANK-2

Lab Sample ID: 480-129224-13

Date Collected: 12/18/17 00:00

Matrix: Water

Date Received: 12/20/17 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 17:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 17:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 17:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 17:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 17:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 17:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 17:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 17:10	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 17:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 17:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 17:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 17:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 17:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 17:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 17:10	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 17:10	1
Acetone	ND		10	3.0	ug/L			12/22/17 17:10	1
Benzene	ND		1.0	0.41	ug/L			12/22/17 17:10	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 17:10	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 17:10	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 17:10	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 17:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 17:10	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 17:10	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 17:10	1
Chloroform	ND		1.0	0.34	ug/L			12/22/17 17:10	1

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: TRIP-BLANK-2
Date Collected: 12/18/17 00:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 17:10	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 17:10	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 17:10	1
Cyclohexane	ND		1.0	0.18	ug/L			12/22/17 17:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 17:10	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 17:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 17:10	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 17:10	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 17:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 17:10	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/22/17 17:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 17:10	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 17:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/22/17 17:10	1
Toluene	ND		1.0	0.51	ug/L			12/22/17 17:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 17:10	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 17:10	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 17:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 17:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 17:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/22/17 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*		*12/22/17 17:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/22/17 17:10*	*1*
Dibromofluoromethane (Surr)	*89*		*75 - 123*		*12/22/17 17:10*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/22/17 17:10*	*1*

Surrogate Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-129224-1	SC2-9-20171218	109	100	109	101
480-129224-2	SC1-9-20171218	105	99	109	100
480-129224-3	SC3-8-10-20171218	103	99	108	100
480-129224-3 MS	SC3-8-10-20171218 MS	93	101	105	102
480-129224-3 MSD	SC3-8-10-20171218 MSD	96	100	107	101
480-129224-4	SC4-8-10-20171218	104	98	107	98
480-129224-5	DUPE1-20171218	104	97	111	100
LCS 480-392924/1-A	Lab Control Sample	105	100	108	100
MB 480-392924/2-A	Method Blank	106	99	108	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-129224-6	SC1-GW-20171218	93	97	106	95
480-129224-7	SC4-GW-20171218	92	101	109	98
480-129224-8	DUPE2-20171218	101	98	105	93
480-129224-9	SC3-GW-20171218	94	99	105	95
480-129224-10	SC2-GW-20171218	97	98	108	94
480-129224-10 MS	SC2-GW-20171218 MS	95	98	103	93
480-129224-10 MSD	SC2-GW-20171218 MSD	100	101	108	96
480-129224-11	FB1-20171218	95	99	105	95
480-129224-12	TRIP-BLANK-1	88	99	90	91
480-129224-13	TRIP-BLANK-2	88	100	89	91
LCS 480-393280/4	Lab Control Sample	87	101	89	94
LCS 480-393283/5	Lab Control Sample	95	100	100	95
MB 480-393280/6	Method Blank	89	99	91	92
MB 480-393283/7	Method Blank	92	98	98	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(65-121)
480-129224-3	SC3-8-10-20171218	80	79	59	63	66	90

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(54-120)	(60-120)	(52-120)	(53-120)	(54-120)	(65-121)
480-129224-3 MS	SC3-8-10-20171218 MS	78	81	60	60	67	90
480-129224-3 MSD	SC3-8-10-20171218 MSD	83	80	59	61	62	96
480-129224-4	SC4-8-10-20171218	83	77	55	61	62	60 X
480-129224-5	DUPE1-20171218	82	106	61	59	64	68
LCS 480-392866/2-A	Lab Control Sample	76	80	62	60	66	88
MB 480-392866/1-A	Method Blank	83	81	80	76	80	92

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHd14
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(59-136)
480-129224-7	SC4-GW-20171218	89	91	73	96	57	81
480-129224-8	DUPE2-20171218	87	91	71	93	56	84
480-129224-10	SC2-GW-20171218	86	95	73	98	57	90
480-129224-10 MS	SC2-GW-20171218 MS	95	87	73	90	61	55 X
480-129224-10 MSD	SC2-GW-20171218 MSD	98	94	76	94	62	60
480-129224-11	FB1-20171218	62	90	68	93	55	102
LCS 480-392888/2-A	Lab Control Sample	93	88	69	89	57	99
MB 480-392888/1-A	Method Blank	64	88	63	90	50	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCBP1	DCBP2	TCX1	TCX2
Lab Sample ID	Client Sample ID	(45-120)	(45-120)	(30-124)	(30-124)
480-129224-3	SC3-8-10-20171218	101	105	86	73
480-129224-3 MS	SC3-8-10-20171218 MS	94	100	77	62
480-129224-3 MSD	SC3-8-10-20171218 MSD	99	98	77	62
480-129224-4	SC4-8-10-20171218	105	100	80	66
480-129224-5	DUPE1-20171218	96	100	78	64
LCS 480-392870/2-A	Lab Control Sample	107	103	83	65

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCBP1 (45-120)	DCBP2 (45-120)	TCX1 (30-124)	TCX2 (30-124)
MB 480-392870/1-A	Method Blank	101	101	77	64

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCBP1 (20-120)	DCBP2 (20-120)	TCX1 (44-120)	TCX2 (44-120)
480-129224-7	SC4-GW-20171218	21	26	64	57
480-129224-8	DUPE2-20171218	23	30	65	56
480-129224-10	SC2-GW-20171218	19 X	21	68	60
480-129224-10 MS	SC2-GW-20171218 MS	22	23	71	66
480-129224-10 MSD	SC2-GW-20171218 MSD	19 X	21	71	65
480-129224-11	FB1-20171218	23	25	65	58
LCS 480-392879/2-A	Lab Control Sample	34	36	65	61
MB 480-392879/1-A	Method Blank	33	35	66	62

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-129224-3	SC3-8-10-20171218	113	94	88	85
480-129224-3 MS	SC3-8-10-20171218 MS	151	116	119	115
480-129224-3 MSD	SC3-8-10-20171218 MSD	128	102	96	92
480-129224-4	SC4-8-10-20171218	105	95	83	81
480-129224-5	DUPE1-20171218	108	95	86	85
LCS 480-392872/2-A	Lab Control Sample	142	117	106	103
MB 480-392872/1-A	Method Blank	109	93	85	79

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) TCX1 (39-121)	TCX2 (39-121)	DCBP1 (19-120)	DCBP2 (19-120)
480-129224-7	SC4-GW-20171218	70	60	28	27

Surrogate Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TCX1 (39-121)	TCX2 (39-121)	DCBP1 (19-120)	DCBP2 (19-120)
480-129224-8	DUPE2-20171218	64	54	35	35
480-129224-10	SC2-GW-20171218	68	53	25	24
480-129224-10 MS	SC2-GW-20171218 MS	75	59	28	25
480-129224-10 MSD	SC2-GW-20171218 MSD	79	65	27	26
480-129224-11	FB1-20171218	74	63	45	44
LCS 480-392987/2-A	Lab Control Sample	67	54	33	29
MB 480-392987/1-A	Method Blank	77	65	45	44

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-392924/2-A
Matrix: Solid
Analysis Batch: 392896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
2-Hexanone	ND		25	2.5	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Acetone	ND		25	4.2	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Benzene	ND		5.0	0.25	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Bromoform	ND		5.0	2.5	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Bromomethane	ND		5.0	0.45	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Chloroethane	ND		5.0	1.1	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Chloroform	ND		5.0	0.31	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Chloromethane	ND		5.0	0.30	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Cyclohexane	ND		5.0	0.70	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Methyl acetate	ND		25	3.0	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Styrene	ND		5.0	0.25	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Toluene	ND		5.0	0.38	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Trichloroethene	ND		5.0	1.1	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		12/20/17 09:55	12/20/17 13:24	1
Xylenes, Total	ND		10	0.84	ug/Kg		12/20/17 09:55	12/20/17 13:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*12/20/17 09:55*	*12/20/17 13:24*	*1*
4-Bromofluorobenzene (Surr)	*99*		*72 - 126*	*12/20/17 09:55*	*12/20/17 13:24*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*12/20/17 09:55*	*12/20/17 13:24*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*12/20/17 09:55*	*12/20/17 13:24*	*1*

Lab Sample ID: LCS 480-392924/1-A
Matrix: Solid
Analysis Batch: 392896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.9		ug/Kg		98	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.3		ug/Kg		95	60 - 140
1,1,2-Trichloroethane	50.0	47.1		ug/Kg		94	78 - 122
1,1-Dichloroethane	50.0	46.1		ug/Kg		92	73 - 126
1,1-Dichloroethene	50.0	47.0		ug/Kg		94	59 - 125
1,2,4-Trichlorobenzene	50.0	46.5		ug/Kg		93	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	54.3		ug/Kg		109	63 - 124
1,2-Dibromoethane	50.0	49.9		ug/Kg		100	78 - 120
1,2-Dichlorobenzene	50.0	46.1		ug/Kg		92	75 - 120
1,2-Dichloroethane	50.0	48.5		ug/Kg		97	77 - 122
1,2-Dichloropropane	50.0	44.5		ug/Kg		89	75 - 124
1,3-Dichlorobenzene	50.0	46.8		ug/Kg		94	74 - 120
1,4-Dichlorobenzene	50.0	46.4		ug/Kg		93	73 - 120
2-Butanone (MEK)	250	234		ug/Kg		94	70 - 134
2-Hexanone	250	238		ug/Kg		95	59 - 130
4-Methyl-2-pentanone (MIBK)	250	234		ug/Kg		93	65 - 133
Acetone	250	215		ug/Kg		86	61 - 137
Benzene	50.0	46.9		ug/Kg		94	79 - 127
Bromodichloromethane	50.0	51.6		ug/Kg		103	80 - 122
Bromoform	50.0	51.1		ug/Kg		102	68 - 126
Bromomethane	50.0	67.6		ug/Kg		135	37 - 149
Carbon disulfide	50.0	45.2		ug/Kg		90	64 - 131
Carbon tetrachloride	50.0	54.0		ug/Kg		108	75 - 135
Chlorobenzene	50.0	47.3		ug/Kg		95	76 - 124
Chloroethane	50.0	62.2		ug/Kg		124	69 - 135
Chloroform	50.0	48.9		ug/Kg		98	80 - 120
Chloromethane	50.0	52.1		ug/Kg		104	63 - 127
cis-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	81 - 120
cis-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	80 - 120
Cyclohexane	50.0	43.8		ug/Kg		88	65 - 120
Dibromochloromethane	50.0	57.5		ug/Kg		115	76 - 125
Dichlorodifluoromethane	50.0	58.6		ug/Kg		117	57 - 142
Ethylbenzene	50.0	47.5		ug/Kg		95	80 - 120
Isopropylbenzene	50.0	46.6		ug/Kg		93	72 - 120
Methyl acetate	100	93.5		ug/Kg		94	55 - 136
Methyl tert-butyl ether	50.0	47.5		ug/Kg		95	63 - 125
Methylcyclohexane	50.0	45.6		ug/Kg		91	60 - 140
Methylene Chloride	50.0	50.0		ug/Kg		100	61 - 127
Styrene	50.0	46.5		ug/Kg		93	80 - 120
Tetrachloroethene	50.0	47.2		ug/Kg		94	74 - 122
Toluene	50.0	45.8		ug/Kg		92	74 - 128
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-392924/1-A
Matrix: Solid
Analysis Batch: 392896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	49.0		ug/Kg		98	73 - 123
Trichloroethene	50.0	47.4		ug/Kg		95	77 - 129
Trichlorofluoromethane	50.0	60.8		ug/Kg		122	65 - 146
Vinyl chloride	50.0	53.3		ug/Kg		107	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Dibromofluoromethane (Surr)	*108*		*60 - 140*
Toluene-d8 (Surr)	*100*		*71 - 125*

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 392896

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	vs	58.4	55.8	vs	ug/Kg	☼	96	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1 vs	58.4	41.5	vs F1	ug/Kg	☼	71	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	58.4	55.2	vs	ug/Kg	☼	95	60 - 140
1,1,2-Trichloroethane	ND	vs	58.4	47.5	vs	ug/Kg	☼	81	78 - 122
1,1-Dichloroethane	ND	vs	58.4	53.8	vs	ug/Kg	☼	92	73 - 126
1,1-Dichloroethene	ND	vs	58.4	55.1	vs	ug/Kg	☼	94	59 - 125
1,2,4-Trichlorobenzene	ND	vs	58.4	50.5	vs	ug/Kg	☼	86	64 - 120
1,2-Dibromo-3-Chloropropane	ND	vs	58.4	40.3	vs	ug/Kg	☼	69	63 - 124
1,2-Dibromoethane	ND	vs	58.4	47.0	vs	ug/Kg	☼	80	78 - 120
1,2-Dichlorobenzene	ND	vs	58.4	51.4	vs	ug/Kg	☼	88	75 - 120
1,2-Dichloroethane	ND	vs	58.4	50.0	vs	ug/Kg	☼	86	77 - 122
1,2-Dichloropropane	ND	vs	58.4	49.6	vs	ug/Kg	☼	85	75 - 124
1,3-Dichlorobenzene	ND	vs	58.4	54.0	vs	ug/Kg	☼	92	74 - 120
1,4-Dichlorobenzene	ND	vs	58.4	53.3	vs	ug/Kg	☼	91	73 - 120
2-Butanone (MEK)	ND	F1 vs	292	162	vs F1	ug/Kg	☼	55	70 - 134
2-Hexanone	ND	vs	292	176	vs	ug/Kg	☼	60	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	292	182	vs F1	ug/Kg	☼	62	65 - 133
Acetone	ND	F1 vs	292	162	vs F1	ug/Kg	☼	55	61 - 137
Benzene	ND	vs	58.4	54.2	vs	ug/Kg	☼	93	79 - 127
Bromodichloromethane	ND	vs	58.4	57.3	vs	ug/Kg	☼	98	80 - 122
Bromoform	ND	vs	58.4	47.8	vs	ug/Kg	☼	82	68 - 126
Bromomethane	ND	F1 vs	58.4	82.2	vs	ug/Kg	☼	141	37 - 149
Carbon disulfide	ND	vs	58.4	52.5	vs	ug/Kg	☼	90	64 - 131
Carbon tetrachloride	ND	vs	58.4	61.2	vs	ug/Kg	☼	105	75 - 135
Chlorobenzene	ND	vs	58.4	54.4	vs	ug/Kg	☼	93	76 - 124
Chloroethane	ND	F1 vs	58.4	72.3	vs	ug/Kg	☼	124	69 - 135
Chloroform	ND	vs	58.4	56.3	vs	ug/Kg	☼	96	80 - 120
Chloromethane	ND	vs	58.4	58.0	vs	ug/Kg	☼	99	63 - 127
cis-1,2-Dichloroethene	ND	vs	58.4	55.4	vs	ug/Kg	☼	95	80 - 120
cis-1,3-Dichloropropene	ND	vs	58.4	51.4	vs	ug/Kg	☼	88	80 - 120
Cyclohexane	ND	vs	58.4	48.3	vs	ug/Kg	☼	83	65 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 392896

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	ND	vs	58.4	58.7	vs	ug/Kg	☼	101	76 - 125
Dichlorodifluoromethane	ND	vs	58.4	68.9	vs	ug/Kg	☼	118	57 - 142
Ethylbenzene	ND	vs	58.4	55.9	vs	ug/Kg	☼	96	80 - 120
Isopropylbenzene	ND	vs	58.4	54.3	vs	ug/Kg	☼	93	72 - 120
Methyl acetate	ND	vs	117	69.6	vs	ug/Kg	☼	60	55 - 136
Methyl tert-butyl ether	ND	vs	58.4	46.4	vs	ug/Kg	☼	79	63 - 125
Methylcyclohexane	ND	vs	58.4	50.0	vs	ug/Kg	☼	86	60 - 140
Methylene Chloride	ND	vs	58.4	57.3	vs	ug/Kg	☼	98	61 - 127
Styrene	ND	vs	58.4	53.5	vs	ug/Kg	☼	92	80 - 120
Tetrachloroethene	ND	vs	58.4	55.2	vs	ug/Kg	☼	95	74 - 122
Toluene	ND	vs	58.4	53.8	vs	ug/Kg	☼	92	74 - 128
trans-1,2-Dichloroethene	ND	vs	58.4	56.2	vs	ug/Kg	☼	96	78 - 126
trans-1,3-Dichloropropene	ND	vs	58.4	51.3	vs	ug/Kg	☼	88	73 - 123
Trichloroethene	ND	vs	58.4	54.3	vs	ug/Kg	☼	93	77 - 129
Trichlorofluoromethane	ND	vs	58.4	73.6	vs	ug/Kg	☼	126	65 - 146
Vinyl chloride	ND	vs	58.4	60.2	vs	ug/Kg	☼	103	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*64 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*102*		*71 - 125*

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 392896

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	vs	58.5	61.7	vs	ug/Kg	☼	105	77 - 121	10	30
1,1,2,2-Tetrachloroethane	ND	F1 vs	58.5	45.4	vs F1	ug/Kg	☼	78	80 - 120	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	58.5	60.9	vs	ug/Kg	☼	104	60 - 140	10	30
1,1,2-Trichloroethane	ND	vs	58.5	50.6	vs	ug/Kg	☼	86	78 - 122	6	30
1,1-Dichloroethane	ND	vs	58.5	57.9	vs	ug/Kg	☼	99	73 - 126	7	30
1,1-Dichloroethene	ND	vs	58.5	60.8	vs	ug/Kg	☼	104	59 - 125	10	30
1,2,4-Trichlorobenzene	ND	vs	58.5	55.1	vs	ug/Kg	☼	94	64 - 120	9	30
1,2-Dibromo-3-Chloropropane	ND	vs	58.5	44.8	vs	ug/Kg	☼	77	63 - 124	11	30
1,2-Dibromoethane	ND	vs	58.5	50.5	vs	ug/Kg	☼	86	78 - 120	7	30
1,2-Dichlorobenzene	ND	vs	58.5	55.1	vs	ug/Kg	☼	94	75 - 120	7	30
1,2-Dichloroethane	ND	vs	58.5	55.0	vs	ug/Kg	☼	94	77 - 122	9	30
1,2-Dichloropropane	ND	vs	58.5	54.3	vs	ug/Kg	☼	93	75 - 124	9	30
1,3-Dichlorobenzene	ND	vs	58.5	57.1	vs	ug/Kg	☼	98	74 - 120	6	30
1,4-Dichlorobenzene	ND	vs	58.5	57.2	vs	ug/Kg	☼	98	73 - 120	7	30
2-Butanone (MEK)	ND	F1 vs	293	182	vs F1	ug/Kg	☼	62	70 - 134	12	30
2-Hexanone	ND	vs	293	190	vs	ug/Kg	☼	65	59 - 130	8	30
4-Methyl-2-pentanone (MIBK)	ND	F1 vs	293	197	vs	ug/Kg	☼	67	65 - 133	8	30
Acetone	ND	F1 vs	293	185	vs	ug/Kg	☼	63	61 - 137	13	30
Benzene	ND	vs	58.5	58.6	vs	ug/Kg	☼	100	79 - 127	8	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 392896

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	ND	vs	58.5	62.5	vs	ug/Kg	☼	107	80 - 122	9	30
Bromoform	ND	vs	58.5	51.6	vs	ug/Kg	☼	88	68 - 126	8	30
Bromomethane	ND	F1 vs	58.5	88.4	vs F1	ug/Kg	☼	151	37 - 149	7	30
Carbon disulfide	ND	vs	58.5	58.0	vs	ug/Kg	☼	99	64 - 131	10	30
Carbon tetrachloride	ND	vs	58.5	68.7	vs	ug/Kg	☼	117	75 - 135	12	30
Chlorobenzene	ND	vs	58.5	58.0	vs	ug/Kg	☼	99	76 - 124	6	30
Chloroethane	ND	F1 vs	58.5	79.8	vs F1	ug/Kg	☼	136	69 - 135	10	30
Chloroform	ND	vs	58.5	61.3	vs	ug/Kg	☼	105	80 - 120	8	30
Chloromethane	ND	vs	58.5	63.1	vs	ug/Kg	☼	108	63 - 127	8	30
cis-1,2-Dichloroethene	ND	vs	58.5	60.6	vs	ug/Kg	☼	104	80 - 120	9	30
cis-1,3-Dichloropropene	ND	vs	58.5	56.2	vs	ug/Kg	☼	96	80 - 120	9	30
Cyclohexane	ND	vs	58.5	54.2	vs	ug/Kg	☼	93	65 - 120	12	30
Dibromochloromethane	ND	vs	58.5	63.0	vs	ug/Kg	☼	108	76 - 125	7	30
Dichlorodifluoromethane	ND	vs	58.5	72.9	vs	ug/Kg	☼	125	57 - 142	6	30
Ethylbenzene	ND	vs	58.5	59.2	vs	ug/Kg	☼	101	80 - 120	6	30
Isopropylbenzene	ND	vs	58.5	58.7	vs	ug/Kg	☼	100	72 - 120	8	30
Methyl acetate	ND	vs	117	78.7	vs	ug/Kg	☼	67	55 - 136	12	30
Methyl tert-butyl ether	ND	vs	58.5	51.1	vs	ug/Kg	☼	87	63 - 125	10	30
Methylcyclohexane	ND	vs	58.5	57.2	vs	ug/Kg	☼	98	60 - 140	13	30
Methylene Chloride	ND	vs	58.5	62.0	vs	ug/Kg	☼	106	61 - 127	8	30
Styrene	ND	vs	58.5	56.9	vs	ug/Kg	☼	97	80 - 120	6	30
Tetrachloroethene	ND	vs	58.5	58.9	vs	ug/Kg	☼	101	74 - 122	6	30
Toluene	ND	vs	58.5	56.7	vs	ug/Kg	☼	97	74 - 128	5	30
trans-1,2-Dichloroethene	ND	vs	58.5	61.8	vs	ug/Kg	☼	106	78 - 126	9	30
trans-1,3-Dichloropropene	ND	vs	58.5	53.8	vs	ug/Kg	☼	92	73 - 123	5	30
Trichloroethene	ND	vs	58.5	58.4	vs	ug/Kg	☼	100	77 - 129	7	30
Trichlorofluoromethane	ND	vs	58.5	82.9	vs	ug/Kg	☼	142	65 - 146	12	30
Vinyl chloride	ND	vs	58.5	68.5	vs	ug/Kg	☼	117	61 - 133	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*100*		*72 - 126*
Dibromofluoromethane (Surr)	*107*		*60 - 140*
Toluene-d8 (Surr)	*101*		*71 - 125*

Lab Sample ID: MB 480-393280/6
Matrix: Water
Analysis Batch: 393280

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 11:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 11:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 11:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 11:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 11:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 11:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 11:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 11:35	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-393280/6
Matrix: Water
Analysis Batch: 393280

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 11:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 11:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 11:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 11:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 11:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 11:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 11:35	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 11:35	1
Acetone	ND		10	3.0	ug/L			12/22/17 11:35	1
Benzene	ND		1.0	0.41	ug/L			12/22/17 11:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 11:35	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 11:35	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 11:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 11:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 11:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 11:35	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 11:35	1
Chloroform	ND		1.0	0.34	ug/L			12/22/17 11:35	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 11:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 11:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 11:35	1
Cyclohexane	ND		1.0	0.18	ug/L			12/22/17 11:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 11:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 11:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 11:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 11:35	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 11:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 11:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/22/17 11:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 11:35	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 11:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/22/17 11:35	1
Toluene	ND		1.0	0.51	ug/L			12/22/17 11:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 11:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 11:35	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 11:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 11:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 11:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/22/17 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*		*12/22/17 11:35*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/22/17 11:35*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 123*		*12/22/17 11:35*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/22/17 11:35*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-393280/4
Matrix: Water
Analysis Batch: 393280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.4		ug/L		89	61 - 148
1,1,2-Trichloroethane	25.0	22.9		ug/L		91	76 - 122
1,1-Dichloroethane	25.0	22.5		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	22.1		ug/L		88	66 - 127
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	56 - 134
1,2-Dibromoethane	25.0	23.6		ug/L		94	77 - 120
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	21.9		ug/L		88	75 - 120
1,2-Dichloropropane	25.0	23.3		ug/L		93	76 - 120
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	22.1		ug/L		88	80 - 120
2-Butanone (MEK)	125	113		ug/L		90	57 - 140
2-Hexanone	125	125		ug/L		100	65 - 127
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	71 - 125
Acetone	125	108		ug/L		86	56 - 142
Benzene	25.0	22.8		ug/L		91	71 - 124
Bromodichloromethane	25.0	24.1		ug/L		96	80 - 122
Bromoform	25.0	24.4		ug/L		97	61 - 132
Bromomethane	25.0	21.8		ug/L		87	55 - 144
Carbon disulfide	25.0	21.1		ug/L		84	59 - 134
Carbon tetrachloride	25.0	24.0		ug/L		96	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	21.3		ug/L		85	69 - 136
Chloroform	25.0	21.9		ug/L		88	73 - 127
Chloromethane	25.0	18.9		ug/L		76	68 - 124
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	74 - 124
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	74 - 124
Cyclohexane	25.0	22.5		ug/L		90	59 - 135
Dibromochloromethane	25.0	25.0		ug/L		100	75 - 125
Dichlorodifluoromethane	25.0	18.3		ug/L		73	59 - 135
Ethylbenzene	25.0	23.8		ug/L		95	77 - 123
Isopropylbenzene	25.0	23.5		ug/L		94	77 - 122
Methyl acetate	50.0	43.1		ug/L		86	74 - 133
Methyl tert-butyl ether	25.0	23.2		ug/L		93	77 - 120
Methylcyclohexane	25.0	22.1		ug/L		88	68 - 134
Methylene Chloride	25.0	23.4		ug/L		94	75 - 124
Styrene	25.0	25.5		ug/L		102	80 - 120
Tetrachloroethene	25.0	24.2		ug/L		97	74 - 122
Toluene	25.0	23.4		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	80 - 120
Trichloroethene	25.0	22.8		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	21.8		ug/L		87	62 - 150
Vinyl chloride	25.0	19.3		ug/L		77	65 - 133

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-393280/4
Matrix: Water
Analysis Batch: 393280

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*89*		*75 - 123*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 480-393283/7
Matrix: Water
Analysis Batch: 393283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/22/17 11:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/22/17 11:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/22/17 11:19	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/22/17 11:19	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/22/17 11:19	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/22/17 11:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/22/17 11:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/22/17 11:19	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/22/17 11:19	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/22/17 11:19	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/22/17 11:19	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/22/17 11:19	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/22/17 11:19	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/22/17 11:19	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/22/17 11:19	1
2-Hexanone	ND		5.0	1.2	ug/L			12/22/17 11:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/22/17 11:19	1
Acetone	ND		10	3.0	ug/L			12/22/17 11:19	1
Benzene	ND		1.0	0.41	ug/L			12/22/17 11:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/22/17 11:19	1
Bromoform	ND		1.0	0.26	ug/L			12/22/17 11:19	1
Bromomethane	ND		1.0	0.69	ug/L			12/22/17 11:19	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/22/17 11:19	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/22/17 11:19	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/22/17 11:19	1
Chloroethane	ND		1.0	0.32	ug/L			12/22/17 11:19	1
Chloroform	ND		1.0	0.34	ug/L			12/22/17 11:19	1
Chloromethane	ND		1.0	0.35	ug/L			12/22/17 11:19	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/22/17 11:19	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/22/17 11:19	1
Cyclohexane	ND		1.0	0.18	ug/L			12/22/17 11:19	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/22/17 11:19	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/22/17 11:19	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/22/17 11:19	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/22/17 11:19	1
Methyl acetate	ND		2.5	1.3	ug/L			12/22/17 11:19	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/22/17 11:19	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/22/17 11:19	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-393283/7
Matrix: Water
Analysis Batch: 393283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			12/22/17 11:19	1
Styrene	ND		1.0	0.73	ug/L			12/22/17 11:19	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/22/17 11:19	1
Toluene	ND		1.0	0.51	ug/L			12/22/17 11:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/22/17 11:19	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/22/17 11:19	1
Trichloroethene	ND		1.0	0.46	ug/L			12/22/17 11:19	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/22/17 11:19	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/22/17 11:19	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/22/17 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*12/22/17 11:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*12/22/17 11:19*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*12/22/17 11:19*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/22/17 11:19*	*1*

Lab Sample ID: LCS 480-393283/5
Matrix: Water
Analysis Batch: 393283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		89	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.9		ug/L		103	61 - 148
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	24.9		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	26.1		ug/L		104	66 - 127
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	18.9		ug/L		75	56 - 134
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	26.0		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	111		ug/L		89	57 - 140
2-Hexanone	125	105		ug/L		84	65 - 127
4-Methyl-2-pentanone (MIBK)	125	101		ug/L		81	71 - 125
Acetone	125	111		ug/L		89	56 - 142
Benzene	25.0	24.7		ug/L		99	71 - 124
Bromodichloromethane	25.0	26.4		ug/L		106	80 - 122
Bromoform	25.0	25.5		ug/L		102	61 - 132
Bromomethane	25.0	25.9		ug/L		104	55 - 144
Carbon disulfide	25.0	24.8		ug/L		99	59 - 134
Carbon tetrachloride	25.0	24.8		ug/L		99	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-393283/5
Matrix: Water
Analysis Batch: 393283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	25.0	25.7		ug/L		103	69 - 136
Chloroform	25.0	26.0		ug/L		104	73 - 127
Chloromethane	25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	23.4		ug/L		94	59 - 135
Dibromochloromethane	25.0	25.4		ug/L		102	75 - 125
Dichlorodifluoromethane	25.0	22.5		ug/L		90	59 - 135
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Isopropylbenzene	25.0	23.0		ug/L		92	77 - 122
Methyl acetate	50.0	40.2		ug/L		80	74 - 133
Methyl tert-butyl ether	25.0	24.3		ug/L		97	77 - 120
Methylcyclohexane	25.0	24.6		ug/L		98	68 - 134
Methylene Chloride	25.0	24.9		ug/L		100	75 - 124
Styrene	25.0	24.4		ug/L		98	80 - 120
Tetrachloroethene	25.0	25.1		ug/L		100	74 - 122
Toluene	25.0	23.0		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	73 - 127
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	80 - 120
Trichloroethene	25.0	25.8		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	25.3		ug/L		101	62 - 150
Vinyl chloride	25.0	27.0		ug/L		108	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 393283

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	27.8		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	22.9		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.1		ug/L		104	61 - 148
1,1,2-Trichloroethane	ND		25.0	23.7		ug/L		95	76 - 122
1,1-Dichloroethane	ND		25.0	26.2		ug/L		105	77 - 120
1,1-Dichloroethene	ND		25.0	28.2		ug/L		113	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	23.6		ug/L		94	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	20.8		ug/L		83	56 - 134
1,2-Dibromoethane	ND		25.0	25.5		ug/L		102	77 - 120
1,2-Dichlorobenzene	ND		25.0	24.9		ug/L		100	80 - 124
1,2-Dichloroethane	ND		25.0	25.2		ug/L		101	75 - 120
1,2-Dichloropropane	ND		25.0	25.2		ug/L		101	76 - 120
1,3-Dichlorobenzene	ND		25.0	24.8		ug/L		99	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 393283

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		98	78 - 124
2-Butanone (MEK)	ND		125	108		ug/L		86	57 - 140
2-Hexanone	ND		125	107		ug/L		86	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	109		ug/L		87	71 - 125
Acetone	ND		125	98.0		ug/L		78	56 - 142
Benzene	0.55	J	25.0	26.1		ug/L		102	71 - 124
Bromodichloromethane	ND		25.0	27.9		ug/L		112	80 - 122
Bromoform	ND		25.0	25.3		ug/L		101	61 - 132
Bromomethane	ND		25.0	29.7		ug/L		119	55 - 144
Carbon disulfide	ND		25.0	26.8		ug/L		107	59 - 134
Carbon tetrachloride	ND		25.0	28.6		ug/L		114	72 - 134
Chlorobenzene	ND		25.0	25.4		ug/L		102	80 - 120
Chloroethane	ND		25.0	27.8		ug/L		111	69 - 136
Chloroform	0.41	J	25.0	28.9		ug/L		114	73 - 127
Chloromethane	ND		25.0	27.6		ug/L		111	68 - 124
cis-1,2-Dichloroethene	ND		25.0	25.9		ug/L		103	74 - 124
cis-1,3-Dichloropropene	ND		25.0	24.3		ug/L		97	74 - 124
Cyclohexane	0.74	J	25.0	23.7		ug/L		92	59 - 135
Dibromochloromethane	ND		25.0	25.9		ug/L		104	75 - 125
Dichlorodifluoromethane	ND		25.0	24.3		ug/L		97	59 - 135
Ethylbenzene	ND		25.0	24.7		ug/L		99	77 - 123
Isopropylbenzene	ND		25.0	24.2		ug/L		97	77 - 122
Methyl acetate	ND		50.0	41.2		ug/L		82	74 - 133
Methyl tert-butyl ether	ND		25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	1.5		25.0	25.6		ug/L		96	68 - 134
Methylene Chloride	ND		25.0	24.8		ug/L		99	75 - 124
Styrene	ND		25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	ND		25.0	26.9		ug/L		107	74 - 122
Toluene	1.1		25.0	24.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	ND		25.0	28.3		ug/L		113	73 - 127
trans-1,3-Dichloropropene	ND		25.0	22.6		ug/L		90	80 - 120
Trichloroethene	ND		25.0	27.7		ug/L		111	74 - 123
Trichlorofluoromethane	ND		25.0	27.7		ug/L		111	62 - 150
Vinyl chloride	ND		25.0	27.3		ug/L		109	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393283

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	29.0		ug/L		116	73 - 126	4	15
1,1,2,2-Tetrachloroethane	ND		25.0	22.6		ug/L		90	76 - 120	1	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393283

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.0		ug/L		108	61 - 148	4	20
1,1,2-Trichloroethane	ND		25.0	23.4		ug/L		94	76 - 122	1	15
1,1-Dichloroethane	ND		25.0	26.4		ug/L		106	77 - 120	1	20
1,1-Dichloroethene	ND		25.0	29.0		ug/L		116	66 - 127	3	16
1,2,4-Trichlorobenzene	ND		25.0	23.4		ug/L		93	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	19.5		ug/L		78	56 - 134	6	15
1,2-Dibromoethane	ND		25.0	25.2		ug/L		101	77 - 120	1	15
1,2-Dichlorobenzene	ND		25.0	24.2		ug/L		97	80 - 124	3	20
1,2-Dichloroethane	ND		25.0	25.1		ug/L		100	75 - 120	1	20
1,2-Dichloropropane	ND		25.0	26.4		ug/L		106	76 - 120	5	20
1,3-Dichlorobenzene	ND		25.0	24.0		ug/L		96	77 - 120	3	20
1,4-Dichlorobenzene	ND		25.0	24.2		ug/L		97	78 - 124	2	20
2-Butanone (MEK)	ND		125	111		ug/L		89	57 - 140	3	20
2-Hexanone	ND		125	105		ug/L		84	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		125	106		ug/L		85	71 - 125	2	35
Acetone	ND		125	101		ug/L		81	56 - 142	3	15
Benzene	0.55	J	25.0	27.1		ug/L		106	71 - 124	4	13
Bromodichloromethane	ND		25.0	28.9		ug/L		116	80 - 122	3	15
Bromoform	ND		25.0	25.6		ug/L		102	61 - 132	1	15
Bromomethane	ND		25.0	30.2		ug/L		121	55 - 144	2	15
Carbon disulfide	ND		25.0	27.3		ug/L		109	59 - 134	2	15
Carbon tetrachloride	ND		25.0	28.3		ug/L		113	72 - 134	1	15
Chlorobenzene	ND		25.0	25.3		ug/L		101	80 - 120	1	25
Chloroethane	ND		25.0	29.6		ug/L		119	69 - 136	6	15
Chloroform	0.41	J	25.0	28.6		ug/L		113	73 - 127	1	20
Chloromethane	ND		25.0	28.9		ug/L		116	68 - 124	4	15
cis-1,2-Dichloroethene	ND		25.0	26.9		ug/L		107	74 - 124	4	15
cis-1,3-Dichloropropene	ND		25.0	25.1		ug/L		101	74 - 124	3	15
Cyclohexane	0.74	J	25.0	24.5		ug/L		95	59 - 135	3	20
Dibromochloromethane	ND		25.0	26.2		ug/L		105	75 - 125	1	15
Dichlorodifluoromethane	ND		25.0	25.3		ug/L		101	59 - 135	4	20
Ethylbenzene	ND		25.0	24.5		ug/L		98	77 - 123	1	15
Isopropylbenzene	ND		25.0	23.7		ug/L		95	77 - 122	2	20
Methyl acetate	ND		50.0	42.5		ug/L		85	74 - 133	3	20
Methyl tert-butyl ether	ND		25.0	25.6		ug/L		102	77 - 120	3	37
Methylcyclohexane	1.5		25.0	27.4		ug/L		104	68 - 134	7	20
Methylene Chloride	ND		25.0	25.5		ug/L		102	75 - 124	3	15
Styrene	ND		25.0	24.8		ug/L		99	80 - 120	0	20
Tetrachloroethene	ND		25.0	26.8		ug/L		107	74 - 122	0	20
Toluene	1.1		25.0	25.2		ug/L		96	80 - 122	2	15
trans-1,2-Dichloroethene	ND		25.0	28.6		ug/L		114	73 - 127	1	20
trans-1,3-Dichloropropene	ND		25.0	22.9		ug/L		92	80 - 120	1	15
Trichloroethene	ND		25.0	28.2		ug/L		113	74 - 123	2	16
Trichlorofluoromethane	ND		25.0	28.2		ug/L		113	62 - 150	2	20
Vinyl chloride	ND		25.0	27.7		ug/L		111	65 - 133	1	15

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393283

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-392866/1-A
Matrix: Solid
Analysis Batch: 394663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		170	46	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2,4-Dinitrophenol	ND		1700	780	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2-Chloronaphthalene	ND		170	28	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2-Chlorophenol	ND		170	31	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2-Methylnaphthalene	ND		170	34	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2-Methylphenol	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2-Nitroaniline	ND		330	25	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
2-Nitrophenol	ND		170	48	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
3-Nitroaniline	ND		330	47	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4-Chloroaniline	ND		170	42	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4-Methylphenol	ND		330	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4-Nitroaniline	ND		330	89	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
4-Nitrophenol	ND		330	120	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Acenaphthene	ND		170	25	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Acenaphthylene	ND		170	22	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Acetophenone	ND		170	23	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Anthracene	ND		170	42	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Atrazine	ND		170	59	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Benzaldehyde	ND		170	130	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Benzo[a]anthracene	ND		170	17	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Benzo[a]pyrene	ND		170	25	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Biphenyl	ND		170	25	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		12/20/17 07:48	01/05/18 16:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-392866/1-A
Matrix: Solid
Analysis Batch: 394663

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Bis(2-ethylhexyl) phthalate	ND		170	58	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Caprolactam	ND		170	51	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Carbazole	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Chrysene	ND		170	38	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Dibenzofuran	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Diethyl phthalate	ND		170	22	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Dimethyl phthalate	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Fluoranthene	ND		170	18	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Fluorene	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Hexachlorobenzene	ND		170	23	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Hexachlorobutadiene	ND		170	25	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Hexachloroethane	ND		170	22	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Isophorone	ND		170	36	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Naphthalene	ND		170	22	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Nitrobenzene	ND		170	19	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Pentachlorophenol	ND		330	170	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Phenanthrene	ND		170	25	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Phenol	ND		170	26	ug/Kg		12/20/17 07:48	01/05/18 16:39	1
Pyrene	ND		170	20	ug/Kg		12/20/17 07:48	01/05/18 16:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*	*12/20/17 07:48*	*01/05/18 16:39*	*1*
2-Fluorobiphenyl	*81*		*60 - 120*	*12/20/17 07:48*	*01/05/18 16:39*	*1*
2-Fluorophenol (Surr)	*80*		*52 - 120*	*12/20/17 07:48*	*01/05/18 16:39*	*1*
Nitrobenzene-d5 (Surr)	*76*		*53 - 120*	*12/20/17 07:48*	*01/05/18 16:39*	*1*
Phenol-d5 (Surr)	*80*		*54 - 120*	*12/20/17 07:48*	*01/05/18 16:39*	*1*
p-Terphenyl-d14 (Surr)	*92*		*65 - 121*	*12/20/17 07:48*	*01/05/18 16:39*	*1*

Lab Sample ID: LCS 480-392866/2-A
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	1650	1350		ug/Kg		82	59 - 126
2,4,6-Trichlorophenol	1650	1350		ug/Kg		81	59 - 123
2,4-Dichlorophenol	1650	1260		ug/Kg		76	61 - 120
2,4-Dimethylphenol	1650	1120		ug/Kg		68	59 - 120
2,4-Dinitrophenol	3310	2470		ug/Kg		75	41 - 146

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-392866/2-A
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	1650	1420		ug/Kg		86	63 - 120
2,6-Dinitrotoluene	1650	1370		ug/Kg		83	66 - 120
2-Chloronaphthalene	1650	1290		ug/Kg		78	57 - 120
2-Chlorophenol	1650	1160		ug/Kg		70	53 - 120
2-Methylnaphthalene	1650	1250		ug/Kg		76	59 - 120
2-Methylphenol	1650	1070		ug/Kg		64	54 - 120
2-Nitroaniline	1650	1150		ug/Kg		69	61 - 120
2-Nitrophenol	1650	1230		ug/Kg		75	56 - 120
3,3'-Dichlorobenzidine	3310	2290		ug/Kg		69	54 - 120
3-Nitroaniline	1650	1220		ug/Kg		74	48 - 120
4,6-Dinitro-2-methylphenol	3310	2930		ug/Kg		88	49 - 122
4-Bromophenyl phenyl ether	1650	1380		ug/Kg		83	58 - 120
4-Chloro-3-methylphenol	1650	1200		ug/Kg		73	61 - 120
4-Chloroaniline	1650	1010		ug/Kg		61	38 - 120
4-Chlorophenyl phenyl ether	1650	1400		ug/Kg		85	63 - 124
4-Methylphenol	1650	1110		ug/Kg		67	55 - 120
4-Nitroaniline	1650	1370		ug/Kg		83	56 - 120
4-Nitrophenol	3310	2490		ug/Kg		75	43 - 147
Acenaphthene	1650	1290		ug/Kg		78	62 - 120
Acenaphthylene	1650	1290		ug/Kg		78	58 - 121
Acetophenone	1650	1030		ug/Kg		63	54 - 120
Anthracene	1650	1390		ug/Kg		84	62 - 120
Atrazine	3310	3110		ug/Kg		94	60 - 127
Benzaldehyde	3310	1200		ug/Kg		36	10 - 150
Benzo[a]anthracene	1650	1370		ug/Kg		83	65 - 120
Benzo[a]pyrene	1650	1380		ug/Kg		84	64 - 120
Benzo[b]fluoranthene	1650	1470		ug/Kg		89	64 - 120
Benzo[g,h,i]perylene	1650	1400		ug/Kg		85	45 - 145
Benzo[k]fluoranthene	1650	1320		ug/Kg		80	65 - 120
Biphenyl	1650	1280		ug/Kg		78	59 - 120
bis (2-chloroisopropyl) ether	1650	1080		ug/Kg		65	44 - 120
Bis(2-chloroethoxy)methane	1650	1100		ug/Kg		66	55 - 120
Bis(2-chloroethyl)ether	1650	980		ug/Kg		59	45 - 120
Bis(2-ethylhexyl) phthalate	1650	1370		ug/Kg		83	61 - 133
Butyl benzyl phthalate	1650	1410		ug/Kg		85	61 - 129
Caprolactam	3310	2250		ug/Kg		68	47 - 120
Carbazole	1650	1410		ug/Kg		86	65 - 120
Chrysene	1650	1390		ug/Kg		84	64 - 120
Dibenz(a,h)anthracene	1650	1470		ug/Kg		89	54 - 132
Dibenzofuran	1650	1340		ug/Kg		81	63 - 120
Diethyl phthalate	1650	1430		ug/Kg		86	66 - 120
Dimethyl phthalate	1650	1350		ug/Kg		82	65 - 124
Di-n-butyl phthalate	1650	1400		ug/Kg		85	58 - 130
Di-n-octyl phthalate	1650	1340		ug/Kg		81	57 - 133
Fluoranthene	1650	1410		ug/Kg		85	62 - 120
Fluorene	1650	1360		ug/Kg		82	63 - 120
Hexachlorobenzene	1650	1360		ug/Kg		82	60 - 120
Hexachlorobutadiene	1650	1250		ug/Kg		75	45 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-392866/2-A
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	1650	1130		ug/Kg		68	47 - 120
Hexachloroethane	1650	1020		ug/Kg		62	41 - 120
Indeno[1,2,3-cd]pyrene	1650	1410		ug/Kg		85	56 - 134
Isophorone	1650	983		ug/Kg		59	56 - 120
Naphthalene	1650	1170		ug/Kg		70	55 - 120
Nitrobenzene	1650	919		ug/Kg		56	54 - 120
N-Nitrosodi-n-propylamine	1650	964		ug/Kg		58	52 - 120
N-Nitrosodiphenylamine	1650	1350		ug/Kg		82	51 - 128
Pentachlorophenol	3310	2300		ug/Kg		70	51 - 120
Phenanthrene	1650	1360		ug/Kg		82	60 - 120
Phenol	1650	1010		ug/Kg		61	53 - 120
Pyrene	1650	1420		ug/Kg		86	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*76*		*54 - 120*
2-Fluorobiphenyl	*80*		*60 - 120*
2-Fluorophenol (Surr)	*62*		*52 - 120*
Nitrobenzene-d5 (Surr)	*60*		*53 - 120*
Phenol-d5 (Surr)	*66*		*54 - 120*
p-Terphenyl-d14 (Surr)	*88*		*65 - 121*

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		1970	1690		ug/Kg	☼	86	46 - 120
2,4,6-Trichlorophenol	ND		1970	1630		ug/Kg	☼	83	41 - 123
2,4-Dichlorophenol	ND		1970	1500		ug/Kg	☼	76	45 - 120
2,4-Dimethylphenol	ND		1970	1320		ug/Kg	☼	67	52 - 120
2,4-Dinitrophenol	ND		3930	3130		ug/Kg	☼	80	41 - 146
2,4-Dinitrotoluene	ND		1970	1790		ug/Kg	☼	91	63 - 125
2,6-Dinitrotoluene	ND		1970	1760		ug/Kg	☼	90	66 - 120
2-Chloronaphthalene	ND		1970	1540		ug/Kg	☼	78	57 - 120
2-Chlorophenol	ND		1970	1450		ug/Kg	☼	74	43 - 120
2-Methylnaphthalene	ND		1970	1450		ug/Kg	☼	74	55 - 120
2-Methylphenol	ND		1970	1340		ug/Kg	☼	68	48 - 120
2-Nitroaniline	ND		1970	1380		ug/Kg	☼	70	61 - 120
2-Nitrophenol	ND		1970	1510		ug/Kg	☼	77	37 - 120
3,3'-Dichlorobenzidine	ND		3930	2880		ug/Kg	☼	73	37 - 126
3-Nitroaniline	ND		1970	1460		ug/Kg	☼	74	48 - 120
4,6-Dinitro-2-methylphenol	ND		3930	3500		ug/Kg	☼	89	23 - 149
4-Bromophenyl phenyl ether	ND		1970	1680		ug/Kg	☼	85	58 - 120
4-Chloro-3-methylphenol	ND		1970	1490		ug/Kg	☼	76	49 - 125
4-Chloroaniline	ND		1970	1210		ug/Kg	☼	62	38 - 120
4-Chlorophenyl phenyl ether	ND		1970	1630		ug/Kg	☼	83	63 - 124
4-Methylphenol	ND		1970	1430		ug/Kg	☼	73	50 - 120
4-Nitroaniline	ND		1970	1660		ug/Kg	☼	84	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Nitrophenol	ND		3930	2970		ug/Kg	☼	76	31 - 147
Acenaphthene	ND		1970	1570		ug/Kg	☼	80	60 - 120
Acenaphthylene	ND		1970	1520		ug/Kg	☼	77	58 - 121
Acetophenone	ND		1970	1270		ug/Kg	☼	65	47 - 120
Anthracene	ND		1970	1660		ug/Kg	☼	84	62 - 120
Atrazine	ND		3930	3650		ug/Kg	☼	93	60 - 150
Benzaldehyde	ND		3930	1370		ug/Kg	☼	35	10 - 150
Benzo[a]anthracene	ND		1970	1650		ug/Kg	☼	84	65 - 120
Benzo[a]pyrene	ND		1970	1680		ug/Kg	☼	85	64 - 120
Benzo[b]fluoranthene	ND		1970	1720		ug/Kg	☼	87	64 - 120
Benzo[g,h,i]perylene	ND		1970	1640		ug/Kg	☼	83	45 - 145
Benzo[k]fluoranthene	ND		1970	1590		ug/Kg	☼	81	65 - 120
Biphenyl	ND		1970	1550		ug/Kg	☼	79	58 - 120
bis (2-chloroisopropyl) ether	ND		1970	1240		ug/Kg	☼	63	31 - 120
Bis(2-chloroethoxy)methane	ND		1970	1260		ug/Kg	☼	64	52 - 120
Bis(2-chloroethyl)ether	ND		1970	1210		ug/Kg	☼	62	45 - 120
Bis(2-ethylhexyl) phthalate	ND		1970	1650		ug/Kg	☼	84	61 - 133
Butyl benzyl phthalate	ND		1970	1630		ug/Kg	☼	83	61 - 120
Caprolactam	ND		3930	2840		ug/Kg	☼	72	37 - 133
Carbazole	ND		1970	1660		ug/Kg	☼	84	59 - 120
Chrysene	ND		1970	1650		ug/Kg	☼	84	64 - 120
Dibenz(a,h)anthracene	ND		1970	1710		ug/Kg	☼	87	54 - 132
Dibenzofuran	ND		1970	1630		ug/Kg	☼	83	62 - 120
Diethyl phthalate	46	J	1970	1730		ug/Kg	☼	86	66 - 120
Dimethyl phthalate	ND		1970	1620		ug/Kg	☼	83	65 - 124
Di-n-butyl phthalate	ND		1970	1720		ug/Kg	☼	87	58 - 130
Di-n-octyl phthalate	ND		1970	1610		ug/Kg	☼	82	57 - 133
Fluoranthene	ND		1970	1650		ug/Kg	☼	84	62 - 120
Fluorene	ND		1970	1640		ug/Kg	☼	83	63 - 120
Hexachlorobenzene	ND		1970	1600		ug/Kg	☼	81	60 - 120
Hexachlorobutadiene	ND		1970	1430		ug/Kg	☼	73	45 - 120
Hexachlorocyclopentadiene	ND		1970	1340		ug/Kg	☼	68	31 - 120
Hexachloroethane	ND		1970	1270		ug/Kg	☼	65	21 - 120
Indeno[1,2,3-cd]pyrene	ND		1970	1690		ug/Kg	☼	86	56 - 134
Isophorone	ND		1970	1180		ug/Kg	☼	60	56 - 120
Naphthalene	ND		1970	1360		ug/Kg	☼	69	46 - 120
Nitrobenzene	ND		1970	1100		ug/Kg	☼	56	49 - 120
N-Nitrosodi-n-propylamine	ND		1970	1180		ug/Kg	☼	60	46 - 120
N-Nitrosodiphenylamine	ND		1970	1630		ug/Kg	☼	83	20 - 128
Pentachlorophenol	ND		3930	2780		ug/Kg	☼	71	25 - 136
Phenanthrene	ND		1970	1640		ug/Kg	☼	83	60 - 122
Phenol	ND		1970	1210		ug/Kg	☼	62	50 - 120
Pyrene	ND		1970	1690		ug/Kg	☼	86	61 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*54 - 120*
2-Fluorobiphenyl	*81*		*60 - 120*
2-Fluorophenol (Surr)	*60*		*52 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392866

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5 (Surr)	*60*		*53 - 120*
Phenol-d5 (Surr)	*67*		*54 - 120*
p-Terphenyl-d14 (Surr)	*90*		*65 - 121*

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		1940	1610		ug/Kg	☼	83	46 - 120	5	18
2,4,6-Trichlorophenol	ND		1940	1590		ug/Kg	☼	82	41 - 123	2	19
2,4-Dichlorophenol	ND		1940	1510		ug/Kg	☼	78	45 - 120	1	19
2,4-Dimethylphenol	ND		1940	1300		ug/Kg	☼	67	52 - 120	1	42
2,4-Dinitrophenol	ND		3890	2940		ug/Kg	☼	76	41 - 146	6	22
2,4-Dinitrotoluene	ND		1940	1780		ug/Kg	☼	92	63 - 125	0	20
2,6-Dinitrotoluene	ND		1940	1670		ug/Kg	☼	86	66 - 120	6	15
2-Chloronaphthalene	ND		1940	1480		ug/Kg	☼	76	57 - 120	4	21
2-Chlorophenol	ND		1940	1290		ug/Kg	☼	67	43 - 120	12	25
2-Methylnaphthalene	ND		1940	1400		ug/Kg	☼	72	55 - 120	4	21
2-Methylphenol	ND		1940	1250		ug/Kg	☼	64	48 - 120	7	27
2-Nitroaniline	ND		1940	1410		ug/Kg	☼	73	61 - 120	3	15
2-Nitrophenol	ND		1940	1420		ug/Kg	☼	73	37 - 120	6	18
3,3'-Dichlorobenzidine	ND		3890	2750		ug/Kg	☼	71	37 - 126	4	25
3-Nitroaniline	ND		1940	1500		ug/Kg	☼	77	48 - 120	3	19
4,6-Dinitro-2-methylphenol	ND		3890	3450		ug/Kg	☼	89	23 - 149	1	15
4-Bromophenyl phenyl ether	ND		1940	1680		ug/Kg	☼	87	58 - 120	0	15
4-Chloro-3-methylphenol	ND		1940	1440		ug/Kg	☼	74	49 - 125	3	27
4-Chloroaniline	ND		1940	1130		ug/Kg	☼	58	38 - 120	7	22
4-Chlorophenyl phenyl ether	ND		1940	1640		ug/Kg	☼	84	63 - 124	0	16
4-Methylphenol	ND		1940	1290		ug/Kg	☼	66	50 - 120	11	24
4-Nitroaniline	ND		1940	1570		ug/Kg	☼	81	47 - 120	6	24
4-Nitrophenol	ND		3890	3050		ug/Kg	☼	78	31 - 147	2	25
Acenaphthene	ND		1940	1550		ug/Kg	☼	80	60 - 120	2	35
Acenaphthylene	ND		1940	1510		ug/Kg	☼	78	58 - 121	1	18
Acetophenone	ND		1940	1210		ug/Kg	☼	62	47 - 120	5	20
Anthracene	ND		1940	1690		ug/Kg	☼	87	62 - 120	2	15
Atrazine	ND		3890	3690		ug/Kg	☼	95	60 - 150	1	20
Benzaldehyde	ND		3890	1200		ug/Kg	☼	31	10 - 150	13	20
Benzo[a]anthracene	ND		1940	1690		ug/Kg	☼	87	65 - 120	2	15
Benzo[a]pyrene	ND		1940	1720		ug/Kg	☼	88	64 - 120	2	15
Benzo[b]fluoranthene	ND		1940	1680		ug/Kg	☼	87	64 - 120	2	15
Benzo[g,h,i]perylene	ND		1940	1650		ug/Kg	☼	85	45 - 145	1	15
Benzo[k]fluoranthene	ND		1940	1670		ug/Kg	☼	86	65 - 120	5	22
Biphenyl	ND		1940	1500		ug/Kg	☼	77	58 - 120	3	20
bis (2-chloroisopropyl) ether	ND		1940	1160		ug/Kg	☼	60	31 - 120	6	24
Bis(2-chloroethoxy)methane	ND		1940	1230		ug/Kg	☼	63	52 - 120	2	17
Bis(2-chloroethyl)ether	ND		1940	1090		ug/Kg	☼	56	45 - 120	11	21
Bis(2-ethylhexyl) phthalate	ND		1940	1680		ug/Kg	☼	86	61 - 133	2	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 393142

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Butyl benzyl phthalate	ND		1940	1730		ug/Kg	☼	89	61 - 120	6	16
Caprolactam	ND		3890	2830		ug/Kg	☼	73	37 - 133	1	20
Carbazole	ND		1940	1690		ug/Kg	☼	87	59 - 120	2	20
Chrysene	ND		1940	1700		ug/Kg	☼	87	64 - 120	3	15
Dibenz(a,h)anthracene	ND		1940	1740		ug/Kg	☼	89	54 - 132	1	15
Dibenzofuran	ND		1940	1610		ug/Kg	☼	83	62 - 120	1	15
Diethyl phthalate	46	J	1940	1720		ug/Kg	☼	86	66 - 120	1	15
Dimethyl phthalate	ND		1940	1640		ug/Kg	☼	84	65 - 124	1	15
Di-n-butyl phthalate	ND		1940	1710		ug/Kg	☼	88	58 - 130	0	15
Di-n-octyl phthalate	ND		1940	1660		ug/Kg	☼	86	57 - 133	3	16
Fluoranthene	ND		1940	1700		ug/Kg	☼	87	62 - 120	3	15
Fluorene	ND		1940	1640		ug/Kg	☼	85	63 - 120	0	15
Hexachlorobenzene	ND		1940	1680		ug/Kg	☼	86	60 - 120	5	15
Hexachlorobutadiene	ND		1940	1410		ug/Kg	☼	73	45 - 120	1	44
Hexachlorocyclopentadiene	ND		1940	1370		ug/Kg	☼	70	31 - 120	2	49
Hexachloroethane	ND		1940	1150		ug/Kg	☼	59	21 - 120	10	46
Indeno[1,2,3-cd]pyrene	ND		1940	1660		ug/Kg	☼	85	56 - 134	2	15
Isophorone	ND		1940	1160		ug/Kg	☼	60	56 - 120	1	17
Naphthalene	ND		1940	1330		ug/Kg	☼	69	46 - 120	2	29
Nitrobenzene	ND		1940	1150		ug/Kg	☼	59	49 - 120	4	24
N-Nitrosodi-n-propylamine	ND		1940	1120		ug/Kg	☼	58	46 - 120	5	31
N-Nitrosodiphenylamine	ND		1940	1640		ug/Kg	☼	84	20 - 128	0	15
Pentachlorophenol	ND		3890	2910		ug/Kg	☼	75	25 - 136	4	35
Phenanthrene	ND		1940	1660		ug/Kg	☼	85	60 - 122	1	15
Phenol	ND		1940	1180		ug/Kg	☼	61	50 - 120	2	35
Pyrene	ND		1940	1730		ug/Kg	☼	89	61 - 133	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*54 - 120*
2-Fluorobiphenyl	*80*		*60 - 120*
2-Fluorophenol (Surr)	*59*		*52 - 120*
Nitrobenzene-d5 (Surr)	*61*		*53 - 120*
Phenol-d5 (Surr)	*62*		*54 - 120*
p-Terphenyl-d14 (Surr)	*96*		*65 - 121*

Lab Sample ID: MB 480-392888/1-A
Matrix: Water
Analysis Batch: 393207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 07:49	1
2,4,6-Trichlorophenol	ND		5.0	0.61	ug/L		12/20/17 08:10	12/22/17 07:49	1
2,4-Dichlorophenol	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 07:49	1
2,4-Dimethylphenol	ND		5.0	0.50	ug/L		12/20/17 08:10	12/22/17 07:49	1
2,4-Dinitrophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 07:49	1
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 07:49	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 07:49	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 07:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-392888/1-A
Matrix: Water
Analysis Batch: 393207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		5.0	0.53	ug/L		12/20/17 08:10	12/22/17 07:49	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		12/20/17 08:10	12/22/17 07:49	1
2-Methylphenol	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 07:49	1
2-Nitroaniline	ND		10	0.42	ug/L		12/20/17 08:10	12/22/17 07:49	1
2-Nitrophenol	ND		5.0	0.48	ug/L		12/20/17 08:10	12/22/17 07:49	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 07:49	1
3-Nitroaniline	ND		10	0.48	ug/L		12/20/17 08:10	12/22/17 07:49	1
4,6-Dinitro-2-methylphenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 07:49	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 07:49	1
4-Chloro-3-methylphenol	ND		5.0	0.45	ug/L		12/20/17 08:10	12/22/17 07:49	1
4-Chloroaniline	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 07:49	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 07:49	1
4-Methylphenol	ND		10	0.36	ug/L		12/20/17 08:10	12/22/17 07:49	1
4-Nitroaniline	ND		10	0.25	ug/L		12/20/17 08:10	12/22/17 07:49	1
4-Nitrophenol	ND		10	1.5	ug/L		12/20/17 08:10	12/22/17 07:49	1
Acenaphthene	ND		5.0	0.41	ug/L		12/20/17 08:10	12/22/17 07:49	1
Acenaphthylene	ND		5.0	0.38	ug/L		12/20/17 08:10	12/22/17 07:49	1
Acetophenone	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 07:49	1
Anthracene	ND		5.0	0.28	ug/L		12/20/17 08:10	12/22/17 07:49	1
Atrazine	ND		5.0	0.46	ug/L		12/20/17 08:10	12/22/17 07:49	1
Benzaldehyde	ND		5.0	0.27	ug/L		12/20/17 08:10	12/22/17 07:49	1
Benzo[a]anthracene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 07:49	1
Benzo[a]pyrene	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 07:49	1
Benzo[b]fluoranthene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 07:49	1
Benzo[g,h,i]perylene	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 07:49	1
Benzo[k]fluoranthene	ND		5.0	0.73	ug/L		12/20/17 08:10	12/22/17 07:49	1
Biphenyl	ND		5.0	0.65	ug/L		12/20/17 08:10	12/22/17 07:49	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		12/20/17 08:10	12/22/17 07:49	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		12/20/17 08:10	12/22/17 07:49	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 07:49	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		12/20/17 08:10	12/22/17 07:49	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		12/20/17 08:10	12/22/17 07:49	1
Caprolactam	ND		5.0	2.2	ug/L		12/20/17 08:10	12/22/17 07:49	1
Carbazole	ND		5.0	0.30	ug/L		12/20/17 08:10	12/22/17 07:49	1
Chrysene	ND		5.0	0.33	ug/L		12/20/17 08:10	12/22/17 07:49	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		12/20/17 08:10	12/22/17 07:49	1
Dibenzofuran	ND		10	0.51	ug/L		12/20/17 08:10	12/22/17 07:49	1
Diethyl phthalate	ND		5.0	0.22	ug/L		12/20/17 08:10	12/22/17 07:49	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 07:49	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		12/20/17 08:10	12/22/17 07:49	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 07:49	1
Fluoranthene	ND		5.0	0.40	ug/L		12/20/17 08:10	12/22/17 07:49	1
Fluorene	ND		5.0	0.36	ug/L		12/20/17 08:10	12/22/17 07:49	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 07:49	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		12/20/17 08:10	12/22/17 07:49	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 07:49	1
Hexachloroethane	ND		5.0	0.59	ug/L		12/20/17 08:10	12/22/17 07:49	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.47	ug/L		12/20/17 08:10	12/22/17 07:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-392888/1-A
Matrix: Water
Analysis Batch: 393207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		5.0	0.43	ug/L		12/20/17 08:10	12/22/17 07:49	1
Naphthalene	ND		5.0	0.76	ug/L		12/20/17 08:10	12/22/17 07:49	1
Nitrobenzene	ND		5.0	0.29	ug/L		12/20/17 08:10	12/22/17 07:49	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		12/20/17 08:10	12/22/17 07:49	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		12/20/17 08:10	12/22/17 07:49	1
Pentachlorophenol	ND		10	2.2	ug/L		12/20/17 08:10	12/22/17 07:49	1
Phenanthrene	ND		5.0	0.44	ug/L		12/20/17 08:10	12/22/17 07:49	1
Phenol	ND		5.0	0.39	ug/L		12/20/17 08:10	12/22/17 07:49	1
Pyrene	ND		5.0	0.34	ug/L		12/20/17 08:10	12/22/17 07:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*41 - 120*	*12/20/17 08:10*	*12/22/17 07:49*	*1*
2-Fluorobiphenyl	*88*		*48 - 120*	*12/20/17 08:10*	*12/22/17 07:49*	*1*
2-Fluorophenol (Surr)	*63*		*35 - 120*	*12/20/17 08:10*	*12/22/17 07:49*	*1*
Nitrobenzene-d5 (Surr)	*90*		*46 - 120*	*12/20/17 08:10*	*12/22/17 07:49*	*1*
Phenol-d5 (Surr)	*50*		*22 - 120*	*12/20/17 08:10*	*12/22/17 07:49*	*1*
p-Terphenyl-d14 (Surr)	*100*		*59 - 136*	*12/20/17 08:10*	*12/22/17 07:49*	*1*

Lab Sample ID: LCS 480-392888/2-A
Matrix: Water
Analysis Batch: 393207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	32.0	30.1		ug/L		94	65 - 126
2,4,6-Trichlorophenol	32.0	27.1		ug/L		85	64 - 120
2,4-Dichlorophenol	32.0	28.7		ug/L		90	63 - 120
2,4-Dimethylphenol	32.0	28.9		ug/L		90	47 - 120
2,4-Dinitrophenol	64.0	51.8		ug/L		81	31 - 137
2,4-Dinitrotoluene	32.0	30.5		ug/L		95	69 - 120
2,6-Dinitrotoluene	32.0	31.6		ug/L		99	68 - 120
2-Chloronaphthalene	32.0	26.9		ug/L		84	58 - 120
2-Chlorophenol	32.0	26.8		ug/L		84	48 - 120
2-Methylnaphthalene	32.0	26.4		ug/L		83	59 - 120
2-Methylphenol	32.0	28.5		ug/L		89	39 - 120
2-Nitroaniline	32.0	29.4		ug/L		92	54 - 127
2-Nitrophenol	32.0	27.8		ug/L		87	52 - 125
3,3'-Dichlorobenzidine	64.0	63.5		ug/L		99	49 - 135
3-Nitroaniline	32.0	27.2		ug/L		85	51 - 120
4,6-Dinitro-2-methylphenol	64.0	60.3		ug/L		94	46 - 136
4-Bromophenyl phenyl ether	32.0	28.3		ug/L		88	65 - 120
4-Chloro-3-methylphenol	32.0	30.0		ug/L		94	61 - 123
4-Chloroaniline	32.0	16.8		ug/L		53	30 - 120
4-Chlorophenyl phenyl ether	32.0	28.5		ug/L		89	62 - 120
4-Methylphenol	32.0	26.4		ug/L		83	29 - 131
4-Nitroaniline	32.0	35.3		ug/L		110	65 - 120
4-Nitrophenol	64.0	46.3		ug/L		72	45 - 120
Acenaphthene	32.0	27.3		ug/L		85	60 - 120
Acenaphthylene	32.0	27.5		ug/L		86	63 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-392888/2-A
Matrix: Water
Analysis Batch: 393207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetophenone	32.0	28.8		ug/L		90	45 - 120
Anthracene	32.0	29.4		ug/L		92	67 - 120
Atrazine	64.0	69.3		ug/L		108	71 - 130
Benzaldehyde	64.0	54.0		ug/L		84	10 - 140
Benzo[a]anthracene	32.0	29.8		ug/L		93	70 - 121
Benzo[a]pyrene	32.0	30.3		ug/L		95	60 - 123
Benzo[b]fluoranthene	32.0	31.5		ug/L		98	66 - 126
Benzo[g,h,i]perylene	32.0	29.4		ug/L		92	66 - 150
Benzo[k]fluoranthene	32.0	31.8		ug/L		99	65 - 124
Biphenyl	32.0	27.4		ug/L		86	59 - 120
bis (2-chloroisopropyl) ether	32.0	27.9		ug/L		87	21 - 136
Bis(2-chloroethoxy)methane	32.0	28.6		ug/L		90	50 - 128
Bis(2-chloroethyl)ether	32.0	27.2		ug/L		85	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	30.6		ug/L		96	63 - 139
Butyl benzyl phthalate	32.0	31.2		ug/L		98	70 - 129
Caprolactam	64.0	24.4		ug/L		38	22 - 120
Carbazole	32.0	41.6	*	ug/L		130	66 - 123
Chrysene	32.0	30.5		ug/L		95	69 - 120
Dibenz(a,h)anthracene	32.0	30.4		ug/L		95	65 - 135
Dibenzofuran	32.0	28.9		ug/L		90	66 - 120
Diethyl phthalate	32.0	32.1		ug/L		100	59 - 127
Dimethyl phthalate	32.0	31.7		ug/L		99	68 - 120
Di-n-butyl phthalate	32.0	31.3		ug/L		98	69 - 131
Di-n-octyl phthalate	32.0	30.3		ug/L		95	63 - 140
Fluoranthene	32.0	31.0		ug/L		97	69 - 126
Fluorene	32.0	28.6		ug/L		90	66 - 120
Hexachlorobenzene	32.0	28.3		ug/L		88	61 - 120
Hexachlorobutadiene	32.0	24.8		ug/L		77	35 - 120
Hexachlorocyclopentadiene	32.0	14.6		ug/L		46	31 - 120
Hexachloroethane	32.0	23.6		ug/L		74	43 - 120
Indeno[1,2,3-cd]pyrene	32.0	30.0		ug/L		94	69 - 146
Isophorone	32.0	29.1		ug/L		91	55 - 120
Naphthalene	32.0	26.7		ug/L		83	57 - 120
Nitrobenzene	32.0	28.2		ug/L		88	53 - 123
N-Nitrosodi-n-propylamine	32.0	29.4		ug/L		92	32 - 140
N-Nitrosodiphenylamine	32.0	29.7		ug/L		93	61 - 120
Pentachlorophenol	64.0	51.8		ug/L		81	29 - 136
Phenanthrene	32.0	29.1		ug/L		91	68 - 120
Phenol	32.0	18.3		ug/L		57	17 - 120
Pyrene	32.0	30.3		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*93*		*41 - 120*
2-Fluorobiphenyl	*88*		*48 - 120*
2-Fluorophenol (Surr)	*69*		*35 - 120*
Nitrobenzene-d5 (Surr)	*89*		*46 - 120*
Phenol-d5 (Surr)	*57*		*22 - 120*
p-Terphenyl-d14 (Surr)	*99*		*59 - 136*

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 393207

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA
Prep Batch: 392888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	ND		32.0	30.7		ug/L		96	65 - 126
2,4,6-Trichlorophenol	ND		32.0	27.5		ug/L		86	64 - 120
2,4-Dichlorophenol	ND		32.0	29.1		ug/L		91	48 - 132
2,4-Dimethylphenol	ND		32.0	27.1		ug/L		85	39 - 130
2,4-Dinitrophenol	ND		64.0	56.3		ug/L		88	21 - 150
2,4-Dinitrotoluene	ND		32.0	31.0		ug/L		97	54 - 138
2,6-Dinitrotoluene	ND		32.0	31.6		ug/L		99	17 - 150
2-Chloronaphthalene	ND		32.0	27.4		ug/L		86	52 - 124
2-Chlorophenol	ND		32.0	27.6		ug/L		86	48 - 120
2-Methylnaphthalene	ND		32.0	27.0		ug/L		85	34 - 140
2-Methylphenol	ND		32.0	29.6		ug/L		92	46 - 120
2-Nitroaniline	ND		32.0	29.3		ug/L		91	44 - 136
2-Nitrophenol	ND		32.0	28.5		ug/L		89	38 - 141
3,3'-Dichlorobenzidine	ND		64.0	51.5		ug/L		81	10 - 150
3-Nitroaniline	ND		32.0	26.5		ug/L		83	32 - 150
4,6-Dinitro-2-methylphenol	ND		64.0	62.3		ug/L		97	38 - 150
4-Bromophenyl phenyl ether	ND		32.0	28.4		ug/L		89	63 - 126
4-Chloro-3-methylphenol	ND		32.0	30.8		ug/L		96	64 - 127
4-Chloroaniline	ND		32.0	15.2		ug/L		47	16 - 124
4-Chlorophenyl phenyl ether	ND		32.0	28.9		ug/L		90	61 - 120
4-Methylphenol	ND		32.0	28.0		ug/L		88	36 - 120
4-Nitroaniline	ND		32.0	33.9		ug/L		106	32 - 150
4-Nitrophenol	ND		64.0	49.9		ug/L		78	23 - 132
Acenaphthene	ND		32.0	27.7		ug/L		87	48 - 120
Acenaphthylene	ND		32.0	27.6		ug/L		86	63 - 120
Acetophenone	ND		32.0	29.5		ug/L		92	53 - 120
Anthracene	ND		32.0	29.1		ug/L		91	65 - 122
Atrazine	ND		64.0	68.7		ug/L		107	50 - 150
Benzaldehyde	ND		64.0	53.7		ug/L		84	10 - 150
Benzo[a]anthracene	ND		32.0	23.2		ug/L		72	43 - 124
Benzo[a]pyrene	ND		32.0	17.2		ug/L		54	23 - 125
Benzo[b]fluoranthene	ND		32.0	18.5		ug/L		58	27 - 127
Benzo[g,h,i]perylene	ND	F2	32.0	13.4		ug/L		42	16 - 147
Benzo[k]fluoranthene	ND		32.0	18.3		ug/L		57	20 - 124
Biphenyl	ND		32.0	27.7		ug/L		87	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	27.8		ug/L		87	28 - 121
Bis(2-chloroethoxy)methane	ND		32.0	28.7		ug/L		90	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	28.2		ug/L		88	45 - 120
Bis(2-ethylhexyl) phthalate	ND	F2	32.0	12.2		ug/L		38	16 - 150
Butyl benzyl phthalate	ND		32.0	27.7		ug/L		87	51 - 140
Caprolactam	ND		64.0	26.7		ug/L		42	10 - 120
Carbazole	ND	*	32.0	40.3		ug/L		126	16 - 148
Chrysene	ND		32.0	22.2		ug/L		69	44 - 122
Dibenz(a,h)anthracene	ND	F2	32.0	13.7		ug/L		43	16 - 139
Dibenzofuran	ND		32.0	28.7		ug/L		90	60 - 120
Diethyl phthalate	ND		32.0	32.3		ug/L		101	53 - 133
Dimethyl phthalate	ND		32.0	32.2		ug/L		101	59 - 123
Di-n-butyl phthalate	ND		32.0	30.4		ug/L		95	65 - 129
Di-n-octyl phthalate	ND	F2	32.0	11.6		ug/L		36	16 - 150
Fluoranthene	ND		32.0	30.4		ug/L		95	63 - 129

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 393207

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA
Prep Batch: 392888

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluorene	ND		32.0	28.8		ug/L		90	62 - 120
Hexachlorobenzene	ND		32.0	27.1		ug/L		85	57 - 121
Hexachlorobutadiene	ND		32.0	25.2		ug/L		79	37 - 120
Hexachlorocyclopentadiene	ND		32.0	17.4		ug/L		54	21 - 120
Hexachloroethane	ND		32.0	24.4		ug/L		76	16 - 130
Indeno[1,2,3-cd]pyrene	ND	F2	32.0	13.6		ug/L		42	16 - 140
Isophorone	ND		32.0	29.2		ug/L		91	48 - 133
Naphthalene	ND		32.0	26.4		ug/L		82	45 - 120
Nitrobenzene	ND		32.0	28.3		ug/L		88	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	30.4		ug/L		95	49 - 120
N-Nitrosodiphenylamine	ND		32.0	24.4		ug/L		76	39 - 138
Pentachlorophenol	ND		64.0	53.0		ug/L		83	23 - 149
Phenanthrene	ND		32.0	29.4		ug/L		92	65 - 122
Phenol	ND		32.0	19.8		ug/L		62	16 - 120
Pyrene	ND		32.0	28.9		ug/L		90	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*41 - 120*
2-Fluorobiphenyl	*87*		*48 - 120*
2-Fluorophenol (Surr)	*73*		*35 - 120*
Nitrobenzene-d5 (Surr)	*90*		*46 - 120*
Phenol-d5 (Surr)	*61*		*22 - 120*
p-Terphenyl-d14 (Surr)	*55*	*X*	*59 - 136*

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393207

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392888

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	ND		32.0	32.2		ug/L		101	65 - 126	5	18
2,4,6-Trichlorophenol	ND		32.0	28.5		ug/L		89	64 - 120	3	19
2,4-Dichlorophenol	ND		32.0	30.5		ug/L		95	48 - 132	5	19
2,4-Dimethylphenol	ND		32.0	26.9		ug/L		84	39 - 130	1	42
2,4-Dinitrophenol	ND		64.0	59.5		ug/L		93	21 - 150	6	22
2,4-Dinitrotoluene	ND		32.0	31.9		ug/L		100	54 - 138	3	20
2,6-Dinitrotoluene	ND		32.0	32.8		ug/L		103	17 - 150	4	15
2-Chloronaphthalene	ND		32.0	29.0		ug/L		91	52 - 124	6	21
2-Chlorophenol	ND		32.0	28.9		ug/L		90	48 - 120	4	25
2-Methylnaphthalene	ND		32.0	28.5		ug/L		89	34 - 140	5	21
2-Methylphenol	ND		32.0	29.6		ug/L		93	46 - 120	0	27
2-Nitroaniline	ND		32.0	30.5		ug/L		95	44 - 136	4	15
2-Nitrophenol	ND		32.0	29.3		ug/L		92	38 - 141	3	18
3,3'-Dichlorobenzidine	ND		64.0	49.8		ug/L		78	10 - 150	3	25
3-Nitroaniline	ND		32.0	25.1		ug/L		78	32 - 150	5	19
4,6-Dinitro-2-methylphenol	ND		64.0	64.2		ug/L		100	38 - 150	3	15
4-Bromophenyl phenyl ether	ND		32.0	30.3		ug/L		95	63 - 126	7	15
4-Chloro-3-methylphenol	ND		32.0	31.5		ug/L		98	64 - 127	2	27
4-Chloroaniline	ND		32.0	13.8		ug/L		43	16 - 124	10	22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-129224-10 MSD | **Client Sample ID: SC2-GW-20171218 MSD**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 393207 | **Prep Batch: 392888**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorophenyl phenyl ether	ND		32.0	31.1		ug/L		97	61 - 120	7	16
4-Methylphenol	ND		32.0	28.6		ug/L		90	36 - 120	2	24
4-Nitroaniline	ND		32.0	35.6		ug/L		111	32 - 150	5	24
4-Nitrophenol	ND		64.0	52.1		ug/L		81	23 - 132	4	48
Acenaphthene	ND		32.0	29.3		ug/L		92	48 - 120	6	24
Acenaphthylene	ND		32.0	29.2		ug/L		91	63 - 120	6	18
Acetophenone	ND		32.0	30.1		ug/L		94	53 - 120	2	20
Anthracene	ND		32.0	30.0		ug/L		94	65 - 122	3	15
Atrazine	ND		64.0	71.9		ug/L		112	50 - 150	5	20
Benzaldehyde	ND		64.0	55.7		ug/L		87	10 - 150	4	20
Benzo[a]anthracene	ND		32.0	24.5		ug/L		77	43 - 124	6	15
Benzo[a]pyrene	ND		32.0	19.2		ug/L		60	23 - 125	11	15
Benzo[b]fluoranthene	ND		32.0	21.0		ug/L		66	27 - 127	12	15
Benzo[g,h,i]perylene	ND	F2	32.0	15.8	F2	ug/L		49	16 - 147	16	15
Benzo[k]fluoranthene	ND		32.0	21.0		ug/L		66	20 - 124	14	22
Biphenyl	ND		32.0	29.2		ug/L		91	57 - 120	5	20
bis (2-chloroisopropyl) ether	ND		32.0	29.0		ug/L		91	28 - 121	4	24
Bis(2-chloroethoxy)methane	ND		32.0	30.3		ug/L		95	44 - 128	6	17
Bis(2-chloroethyl)ether	ND		32.0	30.1		ug/L		94	45 - 120	7	21
Bis(2-ethylhexyl) phthalate	ND	F2	32.0	15.5	F2	ug/L		49	16 - 150	24	15
Butyl benzyl phthalate	ND		32.0	29.0		ug/L		91	51 - 140	4	16
Caprolactam	ND		64.0	27.3		ug/L		43	10 - 120	2	20
Carbazole	ND	*	32.0	41.3		ug/L		129	16 - 148	2	20
Chrysene	ND		32.0	23.4		ug/L		73	44 - 122	5	15
Dibenz(a,h)anthracene	ND	F2	32.0	16.8	F2	ug/L		53	16 - 139	21	15
Dibenzofuran	ND		32.0	30.5		ug/L		95	60 - 120	6	15
Diethyl phthalate	ND		32.0	33.6		ug/L		105	53 - 133	4	15
Dimethyl phthalate	ND		32.0	33.2		ug/L		104	59 - 123	3	15
Di-n-butyl phthalate	ND		32.0	31.7		ug/L		99	65 - 129	4	15
Di-n-octyl phthalate	ND	F2	32.0	15.0	F2	ug/L		47	16 - 150	25	16
Fluoranthene	ND		32.0	31.9		ug/L		100	63 - 129	5	15
Fluorene	ND		32.0	30.6		ug/L		96	62 - 120	6	15
Hexachlorobenzene	ND		32.0	29.0		ug/L		91	57 - 121	7	15
Hexachlorobutadiene	ND		32.0	26.7		ug/L		83	37 - 120	6	44
Hexachlorocyclopentadiene	ND		32.0	18.8		ug/L		59	21 - 120	8	49
Hexachloroethane	ND		32.0	26.0		ug/L		81	16 - 130	6	46
Indeno[1,2,3-cd]pyrene	ND	F2	32.0	16.7	F2	ug/L		52	16 - 140	20	15
Isophorone	ND		32.0	30.4		ug/L		95	48 - 133	4	17
Naphthalene	ND		32.0	27.9		ug/L		87	45 - 120	6	29
Nitrobenzene	ND		32.0	30.0		ug/L		94	45 - 123	6	24
N-Nitrosodi-n-propylamine	ND		32.0	30.8		ug/L		96	49 - 120	1	31
N-Nitrosodiphenylamine	ND		32.0	23.0		ug/L		72	39 - 138	6	15
Pentachlorophenol	ND		64.0	56.7		ug/L		89	23 - 149	7	37
Phenanthrene	ND		32.0	30.6		ug/L		96	65 - 122	4	15
Phenol	ND		32.0	20.1		ug/L		63	16 - 120	2	34
Pyrene	ND		32.0	29.8		ug/L		93	58 - 128	3	19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393207

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392888

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*41 - 120*
2-Fluorobiphenyl	*94*		*48 - 120*
2-Fluorophenol (Surr)	*76*		*35 - 120*
Nitrobenzene-d5 (Surr)	*94*		*46 - 120*
Phenol-d5 (Surr)	*62*		*22 - 120*
p-Terphenyl-d14 (Surr)	*60*		*59 - 136*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-392870/1-A
Matrix: Solid
Analysis Batch: 393068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.32	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Aldrin	ND		1.6	0.40	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
alpha-BHC	ND		1.6	0.29	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
alpha-Chlordane	ND		1.6	0.82	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
beta-BHC	ND		1.6	0.29	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
delta-BHC	ND		1.6	0.30	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Dieldrin	ND		1.6	0.39	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Endosulfan I	ND		1.6	0.31	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Endosulfan II	ND		1.6	0.29	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Endosulfan sulfate	ND		1.6	0.31	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Endrin	ND		1.6	0.32	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Endrin aldehyde	ND		1.6	0.42	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Endrin ketone	ND		1.6	0.40	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
gamma-Chlordane	ND		1.6	0.52	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Heptachlor	ND		1.6	0.35	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Methoxychlor	ND		1.6	0.33	ug/Kg		12/20/17 07:54	12/21/17 11:25	1
Toxaphene	ND		16	9.5	ug/Kg		12/20/17 07:54	12/21/17 11:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*45 - 120*	*12/20/17 07:54*	*12/21/17 11:25*	*1*
DCB Decachlorobiphenyl	*101*		*45 - 120*	*12/20/17 07:54*	*12/21/17 11:25*	*1*
Tetrachloro-m-xylene	*77*		*30 - 124*	*12/20/17 07:54*	*12/21/17 11:25*	*1*
Tetrachloro-m-xylene	*64*		*30 - 124*	*12/20/17 07:54*	*12/21/17 11:25*	*1*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-392870/2-A
Matrix: Solid
Analysis Batch: 393068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.5	16.0		ug/Kg		97	56 - 120
4,4'-DDE	16.5	14.7		ug/Kg		89	44 - 120
4,4'-DDT	16.5	17.6		ug/Kg		106	38 - 120
Aldrin	16.5	12.4		ug/Kg		75	38 - 120
alpha-BHC	16.5	12.1		ug/Kg		73	39 - 120
alpha-Chlordane	16.5	14.4		ug/Kg		87	47 - 120
beta-BHC	16.5	12.5		ug/Kg		76	40 - 120
delta-BHC	16.5	13.1		ug/Kg		80	45 - 120
Dieldrin	16.5	15.4		ug/Kg		93	58 - 120
Endosulfan I	16.5	14.9		ug/Kg		90	49 - 120
Endosulfan II	16.5	15.1		ug/Kg		91	55 - 120
Endosulfan sulfate	16.5	15.6		ug/Kg		95	49 - 124
Endrin	16.5	15.4		ug/Kg		93	58 - 120
Endrin aldehyde	16.5	14.1		ug/Kg		85	37 - 121
Endrin ketone	16.5	13.2		ug/Kg		80	46 - 123
gamma-BHC (Lindane)	16.5	13.1		ug/Kg		79	50 - 120
gamma-Chlordane	16.5	14.6		ug/Kg		88	48 - 120
Heptachlor	16.5	14.5		ug/Kg		88	50 - 120
Heptachlor epoxide	16.5	14.5		ug/Kg		88	50 - 120
Methoxychlor	16.5	18.8		ug/Kg		114	58 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*107*		*45 - 120*
DCB Decachlorobiphenyl	*103*		*45 - 120*
Tetrachloro-m-xylene	*83*		*30 - 124*
Tetrachloro-m-xylene	*65*		*30 - 124*

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393068

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		19.7	18.2		ug/Kg	☼	93	37 - 126
4,4'-DDE	ND		19.7	16.7		ug/Kg	☼	85	34 - 120
4,4'-DDT	ND		19.7	20.2		ug/Kg	☼	103	43 - 123
Aldrin	ND		19.7	14.6		ug/Kg	☼	74	37 - 125
alpha-BHC	ND		19.7	13.8		ug/Kg	☼	70	39 - 120
alpha-Chlordane	ND		19.7	16.1		ug/Kg	☼	82	35 - 120
beta-BHC	ND		19.7	14.4		ug/Kg	☼	73	36 - 120
delta-BHC	ND		19.7	15.0		ug/Kg	☼	76	34 - 120
Dieldrin	ND		19.7	17.8		ug/Kg	☼	90	45 - 120
Endosulfan I	ND		19.7	17.0		ug/Kg	☼	87	39 - 120
Endosulfan II	ND		19.7	17.3		ug/Kg	☼	88	34 - 126
Endosulfan sulfate	ND		19.7	17.8		ug/Kg	☼	90	27 - 130
Endrin	ND		19.7	17.7		ug/Kg	☼	90	47 - 121
Endrin aldehyde	ND		19.7	16.1		ug/Kg	☼	82	33 - 123
Endrin ketone	ND		19.7	15.5		ug/Kg	☼	79	43 - 126
gamma-BHC (Lindane)	ND		19.7	15.2		ug/Kg	☼	77	50 - 120

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393068

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392870

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-Chlordane	ND		19.7	16.6		ug/Kg	☼	85	31 - 120
Heptachlor	ND		19.7	16.8		ug/Kg	☼	85	42 - 120
Heptachlor epoxide	ND		19.7	16.7		ug/Kg	☼	85	40 - 120
Methoxychlor	ND		19.7	22.2		ug/Kg	☼	113	44 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*94*		*45 - 120*
DCB Decachlorobiphenyl	*100*		*45 - 120*
Tetrachloro-m-xylene	*77*		*30 - 124*
Tetrachloro-m-xylene	*62*		*30 - 124*

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 393068

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392870

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		19.5	17.1		ug/Kg	☼	88	37 - 126	6	21
4,4'-DDE	ND		19.5	15.8		ug/Kg	☼	81	34 - 120	6	18
4,4'-DDT	ND		19.5	18.8		ug/Kg	☼	97	43 - 123	7	25
Aldrin	ND		19.5	14.0		ug/Kg	☼	72	37 - 125	4	12
alpha-BHC	ND		19.5	13.3		ug/Kg	☼	68	39 - 120	4	15
alpha-Chlordane	ND		19.5	15.7		ug/Kg	☼	81	35 - 120	2	23
beta-BHC	ND		19.5	13.5		ug/Kg	☼	69	36 - 120	6	19
delta-BHC	ND		19.5	14.5		ug/Kg	☼	74	34 - 120	3	14
Dieldrin	ND		19.5	16.7		ug/Kg	☼	86	45 - 120	6	12
Endosulfan I	ND		19.5	16.2		ug/Kg	☼	83	39 - 120	5	18
Endosulfan II	ND		19.5	16.2		ug/Kg	☼	83	34 - 126	7	26
Endosulfan sulfate	ND		19.5	16.6		ug/Kg	☼	85	27 - 130	7	35
Endrin	ND		19.5	16.7		ug/Kg	☼	86	47 - 121	6	20
Endrin aldehyde	ND		19.5	14.9		ug/Kg	☼	76	33 - 123	8	47
Endrin ketone	ND		19.5	15.0		ug/Kg	☼	77	43 - 126	4	37
gamma-BHC (Lindane)	ND		19.5	14.4		ug/Kg	☼	74	50 - 120	5	12
gamma-Chlordane	ND		19.5	15.8		ug/Kg	☼	81	31 - 120	5	15
Heptachlor	ND		19.5	16.0		ug/Kg	☼	82	42 - 120	5	22
Heptachlor epoxide	ND		19.5	16.0		ug/Kg	☼	82	40 - 120	4	15
Methoxychlor	ND		19.5	20.3		ug/Kg	☼	104	44 - 150	9	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*99*		*45 - 120*
DCB Decachlorobiphenyl	*98*		*45 - 120*
Tetrachloro-m-xylene	*77*		*30 - 124*
Tetrachloro-m-xylene	*62*		*30 - 124*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-392879/1-A
Matrix: Water
Analysis Batch: 393068

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.050	0.0092	ug/L		12/20/17 08:05	12/21/17 13:42	1
4,4'-DDE	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 13:42	1
4,4'-DDT	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 13:42	1
Aldrin	ND		0.050	0.0081	ug/L		12/20/17 08:05	12/21/17 13:42	1
alpha-BHC	ND		0.050	0.0077	ug/L		12/20/17 08:05	12/21/17 13:42	1
alpha-Chlordane	ND		0.050	0.015	ug/L		12/20/17 08:05	12/21/17 13:42	1
beta-BHC	ND		0.050	0.025	ug/L		12/20/17 08:05	12/21/17 13:42	1
delta-BHC	ND		0.050	0.010	ug/L		12/20/17 08:05	12/21/17 13:42	1
Dieldrin	ND		0.050	0.0098	ug/L		12/20/17 08:05	12/21/17 13:42	1
Endosulfan I	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 13:42	1
Endosulfan II	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 13:42	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 13:42	1
Endrin	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 13:42	1
Endrin aldehyde	ND		0.050	0.016	ug/L		12/20/17 08:05	12/21/17 13:42	1
Endrin ketone	ND		0.050	0.012	ug/L		12/20/17 08:05	12/21/17 13:42	1
gamma-BHC (Lindane)	ND		0.050	0.0080	ug/L		12/20/17 08:05	12/21/17 13:42	1
gamma-Chlordane	ND		0.050	0.011	ug/L		12/20/17 08:05	12/21/17 13:42	1
Heptachlor	ND		0.050	0.0085	ug/L		12/20/17 08:05	12/21/17 13:42	1
Heptachlor epoxide	ND		0.050	0.0074	ug/L		12/20/17 08:05	12/21/17 13:42	1
Methoxychlor	ND		0.050	0.014	ug/L		12/20/17 08:05	12/21/17 13:42	1
Toxaphene	ND		0.50	0.12	ug/L		12/20/17 08:05	12/21/17 13:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*33*		*20 - 120*	*12/20/17 08:05*	*12/21/17 13:42*	*1*
DCB Decachlorobiphenyl	*35*		*20 - 120*	*12/20/17 08:05*	*12/21/17 13:42*	*1*
Tetrachloro-m-xylene	*66*		*44 - 120*	*12/20/17 08:05*	*12/21/17 13:42*	*1*
Tetrachloro-m-xylene	*62*		*44 - 120*	*12/20/17 08:05*	*12/21/17 13:42*	*1*

Lab Sample ID: LCS 480-392879/2-A
Matrix: Water
Analysis Batch: 393068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.384		ug/L		96	64 - 129
4,4'-DDE	0.400	0.318		ug/L		79	50 - 120
4,4'-DDT	0.400	0.402		ug/L		101	59 - 120
Aldrin	0.400	0.233		ug/L		58	40 - 125
alpha-BHC	0.400	0.296		ug/L		74	52 - 125
alpha-Chlordane	0.400	0.321		ug/L		80	52 - 120
beta-BHC	0.400	0.322		ug/L		81	51 - 120
delta-BHC	0.400	0.325		ug/L		81	51 - 120
Dieldrin	0.400	0.361		ug/L		90	66 - 128
Endosulfan I	0.400	0.351		ug/L		88	57 - 120
Endosulfan II	0.400	0.362		ug/L		91	66 - 131
Endosulfan sulfate	0.400	0.389		ug/L		97	66 - 136
Endrin	0.400	0.355		ug/L		89	65 - 135
Endrin aldehyde	0.400	0.359		ug/L		90	61 - 134
Endrin ketone	0.400	0.335		ug/L		84	71 - 133

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-392879/2-A
Matrix: Water
Analysis Batch: 393068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
gamma-BHC (Lindane)	0.400	0.336		ug/L		84	56 - 120
gamma-Chlordane	0.400	0.315		ug/L		79	54 - 120
Heptachlor	0.400	0.321		ug/L		80	58 - 120
Heptachlor epoxide	0.400	0.339		ug/L		85	65 - 125
Methoxychlor	0.400	0.461		ug/L		115	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*34*		*20 - 120*
DCB Decachlorobiphenyl	*36*		*20 - 120*
Tetrachloro-m-xylene	*65*		*44 - 120*
Tetrachloro-m-xylene	*61*		*44 - 120*

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 393068

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA
Prep Batch: 392879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		0.400	0.396		ug/L		99	57 - 130
4,4'-DDE	ND		0.400	0.291		ug/L		73	39 - 120
4,4'-DDT	ND		0.400	0.394		ug/L		98	37 - 130
Aldrin	ND		0.400	0.243		ug/L		61	39 - 125
alpha-BHC	ND		0.400	0.315		ug/L		79	48 - 120
alpha-Chlordane	ND		0.400	0.330		ug/L		82	44 - 120
beta-BHC	ND		0.400	0.341		ug/L		85	49 - 120
delta-BHC	ND		0.400	0.337		ug/L		84	50 - 120
Dieldrin	ND		0.400	0.380		ug/L		95	56 - 130
Endosulfan I	ND		0.400	0.343		ug/L		86	40 - 126
Endosulfan II	ND		0.400	0.391		ug/L		98	59 - 140
Endosulfan sulfate	ND		0.400	0.420		ug/L		105	60 - 134
Endrin	ND		0.400	0.377		ug/L		94	54 - 135
Endrin aldehyde	ND		0.400	0.371		ug/L		93	50 - 142
Endrin ketone	ND		0.400	0.358		ug/L		90	57 - 138
gamma-BHC (Lindane)	ND		0.400	0.357		ug/L		89	50 - 120
gamma-Chlordane	ND		0.400	0.333		ug/L		83	42 - 120
Heptachlor	ND		0.400	0.337		ug/L		84	56 - 120
Heptachlor epoxide	ND		0.400	0.350		ug/L		87	58 - 125
Methoxychlor	ND		0.400	0.490		ug/L		122	40 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*22*		*20 - 120*
DCB Decachlorobiphenyl	*23*		*20 - 120*
Tetrachloro-m-xylene	*71*		*44 - 120*
Tetrachloro-m-xylene	*66*		*44 - 120*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393068

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		0.400	0.376		ug/L		94	57 - 130	5	23
4,4'-DDE	ND		0.400	0.276		ug/L		69	39 - 120	5	22
4,4'-DDT	ND		0.400	0.364		ug/L		91	37 - 130	8	24
Aldrin	ND		0.400	0.246		ug/L		61	39 - 125	1	25
alpha-BHC	ND		0.400	0.304		ug/L		76	48 - 120	4	24
alpha-Chlordane	ND		0.400	0.321		ug/L		80	44 - 120	3	23
beta-BHC	ND		0.400	0.330		ug/L		82	49 - 120	3	24
delta-BHC	ND		0.400	0.312		ug/L		78	50 - 120	8	24
Dieldrin	ND		0.400	0.373		ug/L		93	56 - 130	2	24
Endosulfan I	ND		0.400	0.309		ug/L		77	40 - 126	10	30
Endosulfan II	ND		0.400	0.381		ug/L		95	59 - 140	3	40
Endosulfan sulfate	ND		0.400	0.406		ug/L		101	60 - 134	4	24
Endrin	ND		0.400	0.370		ug/L		93	54 - 135	2	24
Endrin aldehyde	ND		0.400	0.355		ug/L		89	50 - 142	4	28
Endrin ketone	ND		0.400	0.334		ug/L		83	57 - 138	7	26
gamma-BHC (Lindane)	ND		0.400	0.346		ug/L		86	50 - 120	3	24
gamma-Chlordane	ND		0.400	0.324		ug/L		81	42 - 120	3	24
Heptachlor	ND		0.400	0.330		ug/L		82	56 - 120	2	25
Heptachlor epoxide	ND		0.400	0.334		ug/L		83	58 - 125	5	23
Methoxychlor	ND		0.400	0.476		ug/L		119	40 - 150	3	26

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*19*	*X*	*20 - 120*
DCB Decachlorobiphenyl	*21*		*20 - 120*
Tetrachloro-m-xylene	*71*		*44 - 120*
Tetrachloro-m-xylene	*65*		*44 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-392872/1-A
Matrix: Solid
Analysis Batch: 392945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.19	0.038	mg/Kg		12/20/17 07:59	12/22/17 01:26	1
PCB-1221	ND		0.19	0.038	mg/Kg		12/20/17 07:59	12/22/17 01:26	1
PCB-1232	ND		0.19	0.038	mg/Kg		12/20/17 07:59	12/22/17 01:26	1
PCB-1242	ND		0.19	0.038	mg/Kg		12/20/17 07:59	12/22/17 01:26	1
PCB-1248	ND		0.19	0.038	mg/Kg		12/20/17 07:59	12/22/17 01:26	1
PCB-1254	ND		0.19	0.090	mg/Kg		12/20/17 07:59	12/22/17 01:26	1
PCB-1260	ND		0.19	0.090	mg/Kg		12/20/17 07:59	12/22/17 01:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*60 - 154*	*12/20/17 07:59*	*12/22/17 01:26*	*1*
Tetrachloro-m-xylene	*93*		*60 - 154*	*12/20/17 07:59*	*12/22/17 01:26*	*1*
DCB Decachlorobiphenyl	*85*		*65 - 174*	*12/20/17 07:59*	*12/22/17 01:26*	*1*
DCB Decachlorobiphenyl	*79*		*65 - 174*	*12/20/17 07:59*	*12/22/17 01:26*	*1*

QC Sample Results

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Lab Sample ID: LCS 480-392872/2-A
Matrix: Solid
Analysis Batch: 392945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392872

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.75	2.41		mg/Kg		138	51 - 185		
PCB-1260			1.75	2.26		mg/Kg		129	61 - 184		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*142*		*60 - 154*
Tetrachloro-m-xylene	*117*		*60 - 154*
DCB Decachlorobiphenyl	*106*		*65 - 174*
DCB Decachlorobiphenyl	*103*		*65 - 174*

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 392945

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 392872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		2.70	4.19		mg/Kg	☼	156	50 - 177		
PCB-1260	ND		2.70	3.92		mg/Kg	☼	145	33 - 200		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*151*		*60 - 154*
Tetrachloro-m-xylene	*116*		*60 - 154*
DCB Decachlorobiphenyl	*119*		*65 - 174*
DCB Decachlorobiphenyl	*115*		*65 - 174*

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 392945

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2.51	3.24		mg/Kg	☼	129	50 - 177	26	50
PCB-1260	ND		2.51	2.96		mg/Kg	☼	118	33 - 200	28	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*128*		*60 - 154*
Tetrachloro-m-xylene	*102*		*60 - 154*
DCB Decachlorobiphenyl	*96*		*65 - 174*
DCB Decachlorobiphenyl	*92*		*65 - 174*

Lab Sample ID: MB 480-392987/1-A
Matrix: Water
Analysis Batch: 393162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 22:05	1
PCB-1221	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 22:05	1
PCB-1232	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 22:05	1
PCB-1242	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 22:05	1
PCB-1248	ND		0.50	0.18	ug/L		12/20/17 14:26	12/21/17 22:05	1
PCB-1254	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 22:05	1
PCB-1260	ND		0.50	0.25	ug/L		12/20/17 14:26	12/21/17 22:05	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 480-392987/1-A
Matrix: Water
Analysis Batch: 393162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392987

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		39 - 121	12/20/17 14:26	12/21/17 22:05	1
Tetrachloro-m-xylene	65		39 - 121	12/20/17 14:26	12/21/17 22:05	1
DCB Decachlorobiphenyl	45		19 - 120	12/20/17 14:26	12/21/17 22:05	1
DCB Decachlorobiphenyl	44		19 - 120	12/20/17 14:26	12/21/17 22:05	1

Lab Sample ID: LCS 480-392987/2-A
Matrix: Water
Analysis Batch: 393162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.17		ug/L		79	62 - 130
PCB-1260	4.00	2.55		ug/L		64	56 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	67		39 - 121
Tetrachloro-m-xylene	54		39 - 121
DCB Decachlorobiphenyl	33		19 - 120
DCB Decachlorobiphenyl	29		19 - 120

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 393162

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA
Prep Batch: 392987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		4.00	3.34		ug/L		83	28 - 150
PCB-1260	ND		4.00	2.50		ug/L		63	25 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	75		39 - 121
Tetrachloro-m-xylene	59		39 - 121
DCB Decachlorobiphenyl	28		19 - 120
DCB Decachlorobiphenyl	25		19 - 120

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393162

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392987

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.00	3.51		ug/L		88	28 - 150	5	50
PCB-1260	ND		4.00	2.61		ug/L		65	25 - 131	4	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	79		39 - 121
Tetrachloro-m-xylene	65		39 - 121
DCB Decachlorobiphenyl	27		19 - 120
DCB Decachlorobiphenyl	26		19 - 120

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-392978/1-A
Matrix: Water
Analysis Batch: 394041

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 392978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		12/21/17 08:55	12/28/17 19:33	1
Antimony	ND		0.020	0.0068	mg/L		12/21/17 08:55	12/28/17 19:33	1
Arsenic	ND		0.015	0.0056	mg/L		12/21/17 08:55	12/28/17 19:33	1
Barium	ND		0.0020	0.00070	mg/L		12/21/17 08:55	12/28/17 19:33	1
Beryllium	ND		0.0020	0.00030	mg/L		12/21/17 08:55	12/28/17 19:33	1
Cadmium	ND		0.0020	0.00050	mg/L		12/21/17 08:55	12/28/17 19:33	1
Calcium	ND		0.50	0.10	mg/L		12/21/17 08:55	12/28/17 19:33	1
Chromium	ND		0.0040	0.0010	mg/L		12/21/17 08:55	12/28/17 19:33	1
Cobalt	ND		0.0040	0.00063	mg/L		12/21/17 08:55	12/28/17 19:33	1
Copper	ND		0.010	0.0016	mg/L		12/21/17 08:55	12/28/17 19:33	1
Iron	ND		0.050	0.019	mg/L		12/21/17 08:55	12/28/17 19:33	1
Lead	ND		0.010	0.0030	mg/L		12/21/17 08:55	12/28/17 19:33	1
Magnesium	ND		0.20	0.043	mg/L		12/21/17 08:55	12/28/17 19:33	1
Nickel	ND		0.010	0.0013	mg/L		12/21/17 08:55	12/28/17 19:33	1
Selenium	ND		0.025	0.0087	mg/L		12/21/17 08:55	12/28/17 19:33	1
Silver	ND		0.0060	0.0017	mg/L		12/21/17 08:55	12/28/17 19:33	1
Sodium	ND		1.0	0.32	mg/L		12/21/17 08:55	12/28/17 19:33	1
Thallium	ND		0.020	0.010	mg/L		12/21/17 08:55	12/28/17 19:33	1
Vanadium	ND		0.0050	0.0015	mg/L		12/21/17 08:55	12/28/17 19:33	1
Zinc	ND		0.010	0.0015	mg/L		12/21/17 08:55	12/28/17 19:33	1

Lab Sample ID: LCS 480-392978/2-A
Matrix: Water
Analysis Batch: 394041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 392978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.84		mg/L		98	80 - 120
Antimony	0.200	0.204		mg/L		102	80 - 120
Arsenic	0.200	0.208		mg/L		104	80 - 120
Barium	0.200	0.197		mg/L		99	80 - 120
Beryllium	0.200	0.195		mg/L		98	80 - 120
Cadmium	0.200	0.203		mg/L		101	80 - 120
Calcium	10.0	10.12		mg/L		101	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.200	0.203		mg/L		102	80 - 120
Copper	0.200	0.196		mg/L		98	80 - 120
Iron	10.0	9.69		mg/L		97	80 - 120
Lead	0.200	0.220		mg/L		110	80 - 120
Magnesium	10.0	10.25		mg/L		102	80 - 120
Nickel	0.200	0.204		mg/L		102	80 - 120
Selenium	0.200	0.200		mg/L		100	80 - 120
Silver	0.0500	0.0503		mg/L		101	80 - 120
Sodium	10.0	10.08		mg/L		101	80 - 120
Thallium	0.200	0.205		mg/L		102	80 - 120
Vanadium	0.200	0.197		mg/L		99	80 - 120
Zinc	0.200	0.192		mg/L		96	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 480-392978/3-A
Matrix: Water
Analysis Batch: 394041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 392978

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10.0	10.18		mg/L		102	80 - 120	3	20
Antimony	0.200	0.207		mg/L		103	80 - 120	1	20
Arsenic	0.200	0.207		mg/L		104	80 - 120	0	20
Barium	0.200	0.198		mg/L		99	80 - 120	1	20
Beryllium	0.200	0.197		mg/L		99	80 - 120	1	20
Cadmium	0.200	0.204		mg/L		102	80 - 120	1	20
Calcium	10.0	10.10		mg/L		101	80 - 120	0	20
Chromium	0.200	0.198		mg/L		99	80 - 120	0	20
Cobalt	0.200	0.203		mg/L		101	80 - 120	0	20
Copper	0.200	0.196		mg/L		98	80 - 120	0	20
Iron	10.0	9.83		mg/L		98	80 - 120	1	20
Lead	0.200	0.218		mg/L		109	80 - 120	1	20
Magnesium	10.0	10.09		mg/L		101	80 - 120	2	20
Nickel	0.200	0.206		mg/L		103	80 - 120	1	20
Selenium	0.200	0.201		mg/L		100	80 - 120	0	20
Silver	0.0500	0.0496		mg/L		99	80 - 120	1	20
Sodium	10.0	10.50		mg/L		105	80 - 120	4	20
Thallium	0.200	0.203		mg/L		101	80 - 120	1	20
Vanadium	0.200	0.199		mg/L		100	80 - 120	1	20
Zinc	0.200	0.191		mg/L		96	80 - 120	0	20

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 394041

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA
Prep Batch: 392978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	97.5		10.0	185.6	4	mg/L		881	75 - 125
Antimony	ND	F1 F2	0.200	0.0849	F1	mg/L		42	75 - 125
Arsenic	0.056		0.200	0.243		mg/L		93	75 - 125
Barium	0.80		0.200	1.23	4	mg/L		212	75 - 125
Beryllium	0.0044	F1	0.200	0.147	F1	mg/L		71	75 - 125
Cadmium	0.0068		0.200	0.165		mg/L		79	75 - 125
Calcium	473		10.0	551.6	4	mg/L		788	75 - 125
Chromium	0.15		0.200	0.376		mg/L		114	75 - 125
Cobalt	0.070	F1	0.200	0.326	F1	mg/L		128	75 - 125
Copper	0.14		0.200	0.340		mg/L		100	75 - 125
Lead	0.26	F1	0.200	0.598	F1	mg/L		170	75 - 125
Nickel	0.23	F1	0.200	0.559	F1	mg/L		165	75 - 125
Selenium	ND	F1	0.200	0.146	F1	mg/L		73	75 - 125
Silver	ND		0.0500	0.0396		mg/L		79	75 - 125
Sodium	266		10.0	251.4	4	mg/L		-150	75 - 125
Thallium	ND		0.200	0.196		mg/L		98	75 - 125
Vanadium	0.19	F1	0.200	0.457	F1	mg/L		136	75 - 125
Zinc	3.2		0.200	4.24	4	mg/L		520	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 394217

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA
Prep Batch: 392978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	155	^	10.0	221.9	^ 4	mg/L		667	75 - 125
Magnesium	201	F2	10.0	272.8	4	mg/L		722	75 - 125
Manganese	5.9		0.200	7.78	4	mg/L		946	75 - 125
Potassium	22.5	B F1	10.0	57.87	F1	mg/L		353	75 - 125

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 394041

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	97.5		10.0	205.5	4	mg/L		1080	75 - 125	10	20
Antimony	ND	F1 F2	0.200	0.0636	F1 F2	mg/L		32	75 - 125	29	20
Arsenic	0.056		0.200	0.243		mg/L		94	75 - 125	0	20
Barium	0.80		0.200	1.34	4	mg/L		268	75 - 125	9	20
Beryllium	0.0044	F1	0.200	0.141	F1	mg/L		68	75 - 125	4	20
Cadmium	0.0068		0.200	0.162		mg/L		77	75 - 125	2	20
Calcium	473		10.0	670.5	4	mg/L		1977	75 - 125	19	20
Chromium	0.15		0.200	0.386		mg/L		119	75 - 125	3	20
Cobalt	0.070	F1	0.200	0.359	F1	mg/L		144	75 - 125	10	20
Copper	0.14		0.200	0.372		mg/L		116	75 - 125	9	20
Lead	0.26	F1	0.200	0.697	F1	mg/L		220	75 - 125	15	20
Nickel	0.23	F1	0.200	0.634	F1	mg/L		203	75 - 125	13	20
Selenium	ND	F1	0.200	0.138	F1	mg/L		69	75 - 125	6	20
Silver	ND		0.0500	0.0386		mg/L		77	75 - 125	3	20
Sodium	266		10.0	248.8	4	mg/L		-176	75 - 125	1	20
Thallium	ND		0.200	0.194		mg/L		97	75 - 125	1	20
Vanadium	0.19	F1	0.200	0.489	F1	mg/L		151	75 - 125	7	20
Zinc	3.2		0.200	4.72	4	mg/L		760	75 - 125	11	20

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 394217

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA
Prep Batch: 392978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	155	^	10.0	258.8	^ 4	mg/L		1036	75 - 125	15	20
Magnesium	201	F2	10.0	355.9	4 F2	mg/L		1553	75 - 125	26	20
Manganese	5.9		0.200	9.20	4	mg/L		1658	75 - 125	17	20
Potassium	22.5	B F1	10.0	61.07	F1	mg/L		385	75 - 125	5	20

Lab Sample ID: MB 480-393095/1-A
Matrix: Solid
Analysis Batch: 393853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 393095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6.94	J	10.5	4.6	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Antimony	ND		15.8	0.42	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Arsenic	ND		2.1	0.42	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Barium	ND		0.53	0.12	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Beryllium	ND		0.21	0.029	mg/Kg		12/21/17 16:43	12/27/17 23:56	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-393095/1-A
Matrix: Solid
Analysis Batch: 393853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 393095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.21	0.032	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Calcium	7.83	J	52.5	3.5	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Chromium	ND		0.53	0.21	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Cobalt	ND		0.53	0.053	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Copper	ND		1.1	0.22	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Lead	ND		1.1	0.25	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Magnesium	ND		21.0	0.97	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Nickel	ND		5.3	0.24	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Selenium	ND		4.2	0.42	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Silver	ND		0.63	0.21	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Thallium	ND		6.3	0.32	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Vanadium	ND		0.53	0.12	mg/Kg		12/21/17 16:43	12/27/17 23:56	1
Zinc	ND		2.1	0.67	mg/Kg		12/21/17 16:43	12/27/17 23:56	1

Lab Sample ID: MB 480-393095/1-A
Matrix: Solid
Analysis Batch: 394037

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 393095

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		10.5	3.7	mg/Kg		12/21/17 16:43	12/28/17 12:24	1
Manganese	0.0935	J	0.21	0.034	mg/Kg		12/21/17 16:43	12/28/17 12:24	1
Potassium	ND		31.5	21.0	mg/Kg		12/21/17 16:43	12/28/17 12:24	1
Sodium	ND		147	13.7	mg/Kg		12/21/17 16:43	12/28/17 12:24	1

Lab Sample ID: LCSSRM 480-393095/2-A
Matrix: Solid
Analysis Batch: 393853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10100	8061		mg/Kg		79.8	31.4 - 127.7
Antimony	229	50.59		mg/Kg		22.1	10.0 - 110.0
Arsenic	176	120.2		mg/Kg		68.3	58.0 - 110.2
Barium	126	104.5		mg/Kg		83.0	57.9 - 110.3
Beryllium	168	113.2		mg/Kg		67.4	60.1 - 110.1
Cadmium	81.3	52.72		mg/Kg		64.9	56.9 - 110.0
Calcium	7340	4979		mg/Kg		67.8	59.5 - 109.9
Chromium	116	77.47		mg/Kg		66.8	53.2 - 110.3
Cobalt	154	117.0		mg/Kg		76.0	57.7 - 109.7
Copper	78.3	52.88		mg/Kg		67.5	56.4 - 110.0
Lead	88.4	91.20		mg/Kg		103.2	69.9 - 130.1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 480-393095/2-A
Matrix: Solid
Analysis Batch: 393853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	3090	2334		mg/Kg		75.5	53.1 - 113.6
Nickel	88.5	67.02		mg/Kg		75.7	53.2 - 110.1
Selenium	169	112.7		mg/Kg		66.7	54.0 - 110.1
Thallium	171	138.0		mg/Kg		80.7	54.9 - 109.9
Vanadium	85.7	65.05		mg/Kg		75.9	47.7 - 114.9
Zinc	198	152.9		mg/Kg		77.2	62.1 - 117.2

Lab Sample ID: LCSSRM 480-393095/2-A
Matrix: Solid
Analysis Batch: 394037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	16300	11940		mg/Kg		73.3	31.4 - 144.8
Manganese	452	326.9		mg/Kg		72.3	61.9 - 110.0
Potassium	2760	2488		mg/Kg		90.1	50.7 - 118.8
Silver	62.0	32.59		mg/Kg		52.6	52.4 - 110.0
Sodium	419	340.1		mg/Kg		81.2	30.8 - 121.2

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393853

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10800	B	2230	12540	4	mg/Kg	☼	79	75 - 125
Antimony	ND	F2 F1	44.5	19.07	F1	mg/Kg	☼	43	75 - 125
Arsenic	3.8		44.5	37.51		mg/Kg	☼	76	75 - 125
Barium	40.2		44.5	87.38		mg/Kg	☼	106	75 - 125
Beryllium	0.48		44.5	34.23		mg/Kg	☼	76	75 - 125
Cadmium	0.050	J	44.5	34.10		mg/Kg	☼	76	75 - 125
Calcium	1720	B	2230	4499		mg/Kg	☼	125	75 - 125
Chromium	12.2		44.5	49.02		mg/Kg	☼	83	75 - 125
Cobalt	5.4		44.5	47.40		mg/Kg	☼	94	75 - 125
Copper	15.3	F1	44.5	46.38	F1	mg/Kg	☼	70	75 - 125
Lead	7.7		44.5	49.37		mg/Kg	☼	94	75 - 125
Magnesium	2020	B	2230	4373		mg/Kg	☼	106	75 - 125
Nickel	14.2		44.5	57.06		mg/Kg	☼	96	75 - 125
Selenium	ND		44.5	34.18		mg/Kg	☼	77	75 - 125
Silver	ND		11.1	8.86		mg/Kg	☼	80	75 - 125
Thallium	ND		44.5	42.02		mg/Kg	☼	94	75 - 125
Vanadium	22.6		44.5	62.10		mg/Kg	☼	89	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393853

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	37.3		44.5	75.90		mg/Kg	☼	87	75 - 125

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 394037

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	15200		2230	15200	4	mg/Kg	☼	1	75 - 125
Manganese	415	B	44.5	421.4	4	mg/Kg	☼	15	75 - 125
Potassium	2780	F1	2230	5822	F1	mg/Kg	☼	137	75 - 125
Sodium	184		2230	2205		mg/Kg	☼	91	75 - 125

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 393853

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	10800	B	2530	13970	4	mg/Kg	☼	126	75 - 125	11	20
Antimony	ND	F2 F1	50.6	23.54	F4 F1	mg/Kg	☼	47	75 - 125	21	20
Arsenic	3.8		50.6	43.48		mg/Kg	☼	78	75 - 125	15	20
Barium	40.2		50.6	97.68		mg/Kg	☼	114	75 - 125	11	20
Beryllium	0.48		50.6	39.49		mg/Kg	☼	77	75 - 125	14	20
Cadmium	0.050	J	50.6	39.10		mg/Kg	☼	77	75 - 125	14	20
Calcium	1720	B	2530	4796		mg/Kg	☼	122	75 - 125	6	20
Chromium	12.2		50.6	56.70		mg/Kg	☼	88	75 - 125	15	20
Cobalt	5.4		50.6	52.62		mg/Kg	☼	93	75 - 125	10	20
Lead	7.7		50.6	55.23		mg/Kg	☼	94	75 - 125	11	20
Magnesium	2020	B	2530	4746		mg/Kg	☼	108	75 - 125	8	20
Nickel	14.2		50.6	63.66		mg/Kg	☼	98	75 - 125	11	20
Selenium	ND		50.6	40.39		mg/Kg	☼	80	75 - 125	17	20
Silver	ND		12.6	10.27		mg/Kg	☼	81	75 - 125	15	20
Thallium	ND		50.6	47.39		mg/Kg	☼	94	75 - 125	12	20
Vanadium	22.6		50.6	70.46		mg/Kg	☼	95	75 - 125	13	20
Zinc	37.3		50.6	83.32		mg/Kg	☼	91	75 - 125	9	20

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 394037

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 393095

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	15.1	F1	50.6	51.48	F1	mg/Kg	☼	72	75 - 125	11	20
Iron	15200		2530	15990	4	mg/Kg	☼	32	75 - 125	5	20
Manganese	415	B	50.6	403.5	4	mg/Kg	☼	-22	75 - 125	4	20
Potassium	2780	F1	2530	6482	F1	mg/Kg	☼	146	75 - 125	11	20
Sodium	184		2530	2504		mg/Kg	☼	92	75 - 125	13	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-393525/1-A
Matrix: Water
Analysis Batch: 393595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 393525

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		12/26/17 13:00	12/26/17 15:47	1

Lab Sample ID: LCS 480-393525/2-A
Matrix: Water
Analysis Batch: 393595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 393525

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00633		mg/L		95	80 - 120

Lab Sample ID: LCSD 480-393525/3-A
Matrix: Water
Analysis Batch: 393595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 393525

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00667	0.00642		mg/L		96	80 - 120	1	20

Lab Sample ID: 480-129224-10 MS
Matrix: Water
Analysis Batch: 393595

Client Sample ID: SC2-GW-20171218 MS
Prep Type: Total/NA
Prep Batch: 393525

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00058		0.00667	0.00753		mg/L		104	80 - 120

Lab Sample ID: 480-129224-10 MSD
Matrix: Water
Analysis Batch: 393595

Client Sample ID: SC2-GW-20171218 MSD
Prep Type: Total/NA
Prep Batch: 393525

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00058		0.00667	0.00737		mg/L		102	80 - 120	2	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 480-393576/1-A
Matrix: Solid
Analysis Batch: 393605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 393576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.019	0.0078	mg/Kg		12/26/17 15:15	12/26/17 17:20	1

Lab Sample ID: LCDSRM 480-393576/3-A ^10
Matrix: Solid
Analysis Batch: 393605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 393576

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	12.6	13.19		mg/Kg		104.7	44.4 - 128.6	4	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: LCSSRM 480-393576/2-A ^10
Matrix: Solid
Analysis Batch: 393605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 393576

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	12.6	13.78		mg/Kg		109.3	44.4 - 128.6

Lab Sample ID: 480-129224-3 MS
Matrix: Solid
Analysis Batch: 393605

Client Sample ID: SC3-8-10-20171218 MS
Prep Type: Total/NA
Prep Batch: 393576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.369	0.415		mg/Kg	☼	112	80 - 120

Lab Sample ID: 480-129224-3 MSD
Matrix: Solid
Analysis Batch: 393605

Client Sample ID: SC3-8-10-20171218 MSD
Prep Type: Total/NA
Prep Batch: 393576

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.405	0.439		mg/Kg	☼	108	80 - 120	6	20

GC/MS VOA

Analysis Batch: 392896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-1	SC2-9-20171218	Total/NA	Solid	8260C	392924
480-129224-2	SC1-9-20171218	Total/NA	Solid	8260C	392924
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	8260C	392924
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	8260C	392924
480-129224-5	DUPE1-20171218	Total/NA	Solid	8260C	392924
MB 480-392924/2-A	Method Blank	Total/NA	Solid	8260C	392924
LCS 480-392924/1-A	Lab Control Sample	Total/NA	Solid	8260C	392924
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	8260C	392924
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	8260C	392924

Prep Batch: 392924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-1	SC2-9-20171218	Total/NA	Solid	5035A_L	
480-129224-2	SC1-9-20171218	Total/NA	Solid	5035A_L	
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	5035A_L	
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	5035A_L	
480-129224-5	DUPE1-20171218	Total/NA	Solid	5035A_L	
MB 480-392924/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-392924/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	5035A_L	
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	5035A_L	

Analysis Batch: 393280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-12	TRIP-BLANK-1	Total/NA	Water	8260C	
480-129224-13	TRIP-BLANK-2	Total/NA	Water	8260C	
MB 480-393280/6	Method Blank	Total/NA	Water	8260C	
LCS 480-393280/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 393283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-6	SC1-GW-20171218	Total/NA	Water	8260C	
480-129224-7	SC4-GW-20171218	Total/NA	Water	8260C	
480-129224-8	DUPE2-20171218	Total/NA	Water	8260C	
480-129224-9	SC3-GW-20171218	Total/NA	Water	8260C	
480-129224-10	SC2-GW-20171218	Total/NA	Water	8260C	
480-129224-11	FB1-20171218	Total/NA	Water	8260C	
MB 480-393283/7	Method Blank	Total/NA	Water	8260C	
LCS 480-393283/5	Lab Control Sample	Total/NA	Water	8260C	
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	8260C	
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 392866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	3550C	
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	3550C	
480-129224-5	DUPE1-20171218	Total/NA	Solid	3550C	
MB 480-392866/1-A	Method Blank	Total/NA	Solid	3550C	

GC/MS Semi VOA (Continued)

Prep Batch: 392866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-392866/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	3550C	
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	3550C	

Prep Batch: 392888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	3510C	
480-129224-8	DUPE2-20171218	Total/NA	Water	3510C	
480-129224-10	SC2-GW-20171218	Total/NA	Water	3510C	
480-129224-11	FB1-20171218	Total/NA	Water	3510C	
MB 480-392888/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-392888/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	3510C	
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	3510C	

Analysis Batch: 393142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	8270D	392866
LCS 480-392866/2-A	Lab Control Sample	Total/NA	Solid	8270D	392866
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	8270D	392866
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	8270D	392866

Analysis Batch: 393207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	8270D	392888
480-129224-8	DUPE2-20171218	Total/NA	Water	8270D	392888
480-129224-10	SC2-GW-20171218	Total/NA	Water	8270D	392888
480-129224-11	FB1-20171218	Total/NA	Water	8270D	392888
MB 480-392888/1-A	Method Blank	Total/NA	Water	8270D	392888
LCS 480-392888/2-A	Lab Control Sample	Total/NA	Water	8270D	392888
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	8270D	392888
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	8270D	392888

Analysis Batch: 393311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	8270D	392866

Analysis Batch: 393552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-5	DUPE1-20171218	Total/NA	Solid	8270D	392866

Analysis Batch: 394663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-392866/1-A	Method Blank	Total/NA	Solid	8270D	392866

GC Semi VOA

Prep Batch: 392870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	3550C	

GC Semi VOA (Continued)

Prep Batch: 392870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	3550C	
480-129224-5	DUPE1-20171218	Total/NA	Solid	3550C	
MB 480-392870/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-392870/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	3550C	
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	3550C	

Prep Batch: 392872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	3550C	
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	3550C	
480-129224-5	DUPE1-20171218	Total/NA	Solid	3550C	
MB 480-392872/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-392872/2-A	Lab Control Sample	Total/NA	Solid	3550C	
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	3550C	
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	3550C	

Prep Batch: 392879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	3510C	
480-129224-8	DUPE2-20171218	Total/NA	Water	3510C	
480-129224-10	SC2-GW-20171218	Total/NA	Water	3510C	
480-129224-11	FB1-20171218	Total/NA	Water	3510C	
MB 480-392879/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-392879/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	3510C	
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	3510C	

Analysis Batch: 392945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	8082A	392872
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	8082A	392872
480-129224-5	DUPE1-20171218	Total/NA	Solid	8082A	392872
MB 480-392872/1-A	Method Blank	Total/NA	Solid	8082A	392872
LCS 480-392872/2-A	Lab Control Sample	Total/NA	Solid	8082A	392872
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	8082A	392872
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	8082A	392872

Prep Batch: 392987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	3510C	
480-129224-8	DUPE2-20171218	Total/NA	Water	3510C	
480-129224-10	SC2-GW-20171218	Total/NA	Water	3510C	
480-129224-11	FB1-20171218	Total/NA	Water	3510C	
MB 480-392987/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-392987/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	3510C	
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 393068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	8081B	392870
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	8081B	392870
480-129224-5	DUPE1-20171218	Total/NA	Solid	8081B	392870
480-129224-7	SC4-GW-20171218	Total/NA	Water	8081B	392879
480-129224-8	DUPE2-20171218	Total/NA	Water	8081B	392879
480-129224-10	SC2-GW-20171218	Total/NA	Water	8081B	392879
480-129224-11	FB1-20171218	Total/NA	Water	8081B	392879
MB 480-392870/1-A	Method Blank	Total/NA	Solid	8081B	392870
MB 480-392879/1-A	Method Blank	Total/NA	Water	8081B	392879
LCS 480-392870/2-A	Lab Control Sample	Total/NA	Solid	8081B	392870
LCS 480-392879/2-A	Lab Control Sample	Total/NA	Water	8081B	392879
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	8081B	392870
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	8081B	392870
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	8081B	392879
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	8081B	392879

Analysis Batch: 393162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	8082A	392987
480-129224-8	DUPE2-20171218	Total/NA	Water	8082A	392987
480-129224-10	SC2-GW-20171218	Total/NA	Water	8082A	392987
480-129224-11	FB1-20171218	Total/NA	Water	8082A	392987
MB 480-392987/1-A	Method Blank	Total/NA	Water	8082A	392987
LCS 480-392987/2-A	Lab Control Sample	Total/NA	Water	8082A	392987
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	8082A	392987
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	8082A	392987

Metals

Prep Batch: 392978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	3005A	
480-129224-8	DUPE2-20171218	Total/NA	Water	3005A	
480-129224-10	SC2-GW-20171218	Total/NA	Water	3005A	
480-129224-11	FB1-20171218	Total/NA	Water	3005A	
MB 480-392978/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-392978/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-392978/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	3005A	
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	3005A	

Prep Batch: 393095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	3050B	
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	3050B	
480-129224-5	DUPE1-20171218	Total/NA	Solid	3050B	
MB 480-393095/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-393095/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	3050B	
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 393525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	7470A	
480-129224-8	DUPE2-20171218	Total/NA	Water	7470A	
480-129224-10	SC2-GW-20171218	Total/NA	Water	7470A	
480-129224-11	FB1-20171218	Total/NA	Water	7470A	
MB 480-393525/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-393525/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-393525/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	7470A	
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	7470A	

Prep Batch: 393576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	7471B	
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	7471B	
480-129224-5	DUPE1-20171218	Total/NA	Solid	7471B	
MB 480-393576/1-A	Method Blank	Total/NA	Solid	7471B	
LCDSRM 480-393576/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	
LCSSRM 480-393576/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	7471B	
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	7471B	

Analysis Batch: 393595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	7470A	393525
480-129224-8	DUPE2-20171218	Total/NA	Water	7470A	393525
480-129224-10	SC2-GW-20171218	Total/NA	Water	7470A	393525
480-129224-11	FB1-20171218	Total/NA	Water	7470A	393525
MB 480-393525/1-A	Method Blank	Total/NA	Water	7470A	393525
LCS 480-393525/2-A	Lab Control Sample	Total/NA	Water	7470A	393525
LCSD 480-393525/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	393525
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	7470A	393525
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	7470A	393525

Analysis Batch: 393605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	7471B	393576
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	7471B	393576
480-129224-5	DUPE1-20171218	Total/NA	Solid	7471B	393576
MB 480-393576/1-A	Method Blank	Total/NA	Solid	7471B	393576
LCDSRM 480-393576/3-A ^1	Lab Control Sample Dup	Total/NA	Solid	7471B	393576
LCSSRM 480-393576/2-A ^1	Lab Control Sample	Total/NA	Solid	7471B	393576
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	7471B	393576
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	7471B	393576

Analysis Batch: 393853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	6010C	393095
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	6010C	393095
480-129224-5	DUPE1-20171218	Total/NA	Solid	6010C	393095
MB 480-393095/1-A	Method Blank	Total/NA	Solid	6010C	393095
LCSSRM 480-393095/2-A	Lab Control Sample	Total/NA	Solid	6010C	393095

Metals (Continued)

Analysis Batch: 393853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	6010C	393095
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	6010C	393095

Analysis Batch: 394037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	6010C	393095
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	6010C	393095
480-129224-5	DUPE1-20171218	Total/NA	Solid	6010C	393095
MB 480-393095/1-A	Method Blank	Total/NA	Solid	6010C	393095
LCSSRM 480-393095/2-A	Lab Control Sample	Total/NA	Solid	6010C	393095
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	6010C	393095
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	6010C	393095

Analysis Batch: 394041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	6010C	392978
480-129224-8	DUPE2-20171218	Total/NA	Water	6010C	392978
480-129224-10	SC2-GW-20171218	Total/NA	Water	6010C	392978
480-129224-11	FB1-20171218	Total/NA	Water	6010C	392978
MB 480-392978/1-A	Method Blank	Total/NA	Water	6010C	392978
LCS 480-392978/2-A	Lab Control Sample	Total/NA	Water	6010C	392978
LCSD 480-392978/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	392978
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	6010C	392978
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	6010C	392978

Analysis Batch: 394217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-7	SC4-GW-20171218	Total/NA	Water	6010C	392978
480-129224-8	DUPE2-20171218	Total/NA	Water	6010C	392978
480-129224-10	SC2-GW-20171218	Total/NA	Water	6010C	392978
480-129224-11	FB1-20171218	Total/NA	Water	6010C	392978
480-129224-10 MS	SC2-GW-20171218 MS	Total/NA	Water	6010C	392978
480-129224-10 MSD	SC2-GW-20171218 MSD	Total/NA	Water	6010C	392978

Analysis Batch: 394696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-11	FB1-20171218	Total/NA	Water	6010C	392978

General Chemistry

Analysis Batch: 393022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-3	SC3-8-10-20171218	Total/NA	Solid	Moisture	
480-129224-4	SC4-8-10-20171218	Total/NA	Solid	Moisture	
480-129224-5	DUPE1-20171218	Total/NA	Solid	Moisture	
480-129224-3 MS	SC3-8-10-20171218 MS	Total/NA	Solid	Moisture	
480-129224-3 MSD	SC3-8-10-20171218 MSD	Total/NA	Solid	Moisture	

QC Association Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

General Chemistry (Continued)

Analysis Batch: 393104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129224-1	SC2-9-20171218	Total/NA	Solid	Moisture	
480-129224-2	SC1-9-20171218	Total/NA	Solid	Moisture	

Lab Chronicle

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: SC2-9-20171218 — **Lab Sample ID: 480-129224-1**
Date Collected: 12/18/17 10:05 — **Matrix: Solid**
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	393104	12/21/17 09:44	AEM	TAL BUF

Client Sample ID: SC2-9-20171218 — **Lab Sample ID: 480-129224-1**
Date Collected: 12/18/17 10:05 — **Matrix: Solid**
Date Received: 12/20/17 01:00 — **Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			392924	12/20/17 09:55	AEM	TAL BUF
Total/NA	Analysis	8260C		1	392896	12/20/17 14:08	AEM	TAL BUF

Client Sample ID: SC1-9-20171218 — **Lab Sample ID: 480-129224-2**
Date Collected: 12/18/17 10:35 — **Matrix: Solid**
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	393104	12/21/17 09:44	AEM	TAL BUF

Client Sample ID: SC1-9-20171218 — **Lab Sample ID: 480-129224-2**
Date Collected: 12/18/17 10:35 — **Matrix: Solid**
Date Received: 12/20/17 01:00 — **Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			392924	12/20/17 09:55	AEM	TAL BUF
Total/NA	Analysis	8260C		1	392896	12/20/17 14:34	AEM	TAL BUF

Client Sample ID: SC3-8-10-20171218 — **Lab Sample ID: 480-129224-3**
Date Collected: 12/18/17 11:30 — **Matrix: Solid**
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	393022	12/20/17 17:39	MDH	TAL BUF

Client Sample ID: SC3-8-10-20171218 — **Lab Sample ID: 480-129224-3**
Date Collected: 12/18/17 11:30 — **Matrix: Solid**
Date Received: 12/20/17 01:00 — **Percent Solids: 84.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			392924	12/20/17 09:55	AEM	TAL BUF
Total/NA	Analysis	8260C		1	392896	12/20/17 15:00	AEM	TAL BUF
Total/NA	Prep	3550C			392866	12/20/17 07:48	CAM	TAL BUF
Total/NA	Analysis	8270D		1	393142	12/21/17 17:22	DMR	TAL BUF
Total/NA	Prep	3550C			392870	12/20/17 07:54	CAM	TAL BUF

Lab Chronicle

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: SC3-8-10-20171218
Lab Sample ID: 480-129224-3
Date Collected: 12/18/17 11:30
Matrix: Solid
Date Received: 12/20/17 01:00
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B		1	393068	12/21/17 12:44	JLS	TAL BUF
Total/NA	Prep	3550C			392872	12/20/17 07:59	CAM	TAL BUF
Total/NA	Analysis	8082A		1	392945	12/22/17 02:29	JMO	TAL BUF
Total/NA	Prep	3050B			393095	12/21/17 16:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	393853	12/28/17 00:03	AMH	TAL BUF
Total/NA	Prep	3050B			393095	12/21/17 16:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394037	12/28/17 12:42	AMH	TAL BUF
Total/NA	Prep	7471B			393576	12/26/17 15:15	EMB	TAL BUF
Total/NA	Analysis	7471B		1	393605	12/26/17 17:28	BMB	TAL BUF

Client Sample ID: SC4-8-10-20171218
Lab Sample ID: 480-129224-4
Date Collected: 12/18/17 14:00
Matrix: Solid
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	393022	12/20/17 17:39	MDH	TAL BUF

Client Sample ID: SC4-8-10-20171218
Lab Sample ID: 480-129224-4
Date Collected: 12/18/17 14:00
Matrix: Solid
Date Received: 12/20/17 01:00
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			392924	12/20/17 09:55	AEM	TAL BUF
Total/NA	Analysis	8260C		1	392896	12/20/17 15:26	AEM	TAL BUF
Total/NA	Prep	3550C			392866	12/20/17 07:48	CAM	TAL BUF
Total/NA	Analysis	8270D		1	393311	12/22/17 20:40	DMR	TAL BUF
Total/NA	Prep	3550C			392870	12/20/17 07:54	CAM	TAL BUF
Total/NA	Analysis	8081B		1	393068	12/21/17 13:03	JLS	TAL BUF
Total/NA	Prep	3550C			392872	12/20/17 07:59	CAM	TAL BUF
Total/NA	Analysis	8082A		1	392945	12/22/17 02:45	JMO	TAL BUF
Total/NA	Prep	3050B			393095	12/21/17 16:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	393853	12/28/17 00:32	AMH	TAL BUF
Total/NA	Prep	3050B			393095	12/21/17 16:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394037	12/28/17 13:00	AMH	TAL BUF
Total/NA	Prep	7471B			393576	12/26/17 15:15	EMB	TAL BUF
Total/NA	Analysis	7471B		1	393605	12/26/17 17:38	BMB	TAL BUF

Client Sample ID: DUPE1-20171218
Lab Sample ID: 480-129224-5
Date Collected: 12/18/17 14:00
Matrix: Solid
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	393022	12/20/17 17:39	MDH	TAL BUF

Lab Chronicle

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: DUPE1-20171218

Lab Sample ID: 480-129224-5
Date Collected: 12/18/17 14:00
Matrix: Solid
Date Received: 12/20/17 01:00
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			392924	12/20/17 09:55	AEM	TAL BUF
Total/NA	Analysis	8260C		1	392896	12/20/17 15:51	AEM	TAL BUF
Total/NA	Prep	3550C			392866	12/20/17 07:48	CAM	TAL BUF
Total/NA	Analysis	8270D		1	393552	12/26/17 21:55	DMR	TAL BUF
Total/NA	Prep	3550C			392870	12/20/17 07:54	CAM	TAL BUF
Total/NA	Analysis	8081B		1	393068	12/21/17 13:23	JLS	TAL BUF
Total/NA	Prep	3550C			392872	12/20/17 07:59	CAM	TAL BUF
Total/NA	Analysis	8082A		1	392945	12/22/17 03:01	JMO	TAL BUF
Total/NA	Prep	3050B			393095	12/21/17 16:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	393853	12/28/17 00:35	AMH	TAL BUF
Total/NA	Prep	3050B			393095	12/21/17 16:43	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394037	12/28/17 13:04	AMH	TAL BUF
Total/NA	Prep	7471B			393576	12/26/17 15:15	EMB	TAL BUF
Total/NA	Analysis	7471B		1	393605	12/26/17 17:39	BMB	TAL BUF

Client Sample ID: SC1-GW-20171218

Lab Sample ID: 480-129224-6
Date Collected: 12/18/17 12:55
Matrix: Water
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393283	12/22/17 16:51	KMN	TAL BUF

Client Sample ID: SC4-GW-20171218

Lab Sample ID: 480-129224-7
Date Collected: 12/18/17 14:50
Matrix: Water
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393283	12/22/17 17:18	KMN	TAL BUF
Total/NA	Prep	3510C			392888	12/20/17 08:10	JMP	TAL BUF
Total/NA	Analysis	8270D		1	393207	12/22/17 12:05	PJQ	TAL BUF
Total/NA	Prep	3510C			392879	12/20/17 08:05	JMP	TAL BUF
Total/NA	Analysis	8081B		1	393068	12/21/17 15:20	JLS	TAL BUF
Total/NA	Prep	3510C			392987	12/20/17 14:26	BEK	TAL BUF
Total/NA	Analysis	8082A		1	393162	12/21/17 23:25	JMO	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394041	12/28/17 21:08	AMH	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394217	12/29/17 17:09	AMH	TAL BUF
Total/NA	Prep	7470A			393525	12/26/17 13:00	EMB	TAL BUF
Total/NA	Analysis	7470A		1	393595	12/26/17 16:10	BMB	TAL BUF

Lab Chronicle

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: DUPE2-20171218

Lab Sample ID: 480-129224-8

Date Collected: 12/18/17 14:50
Matrix: Water
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393283	12/22/17 17:46	KMN	TAL BUF
Total/NA	Prep	3510C			392888	12/20/17 08:10	JMP	TAL BUF
Total/NA	Analysis	8270D		1	393207	12/22/17 12:33	PJQ	TAL BUF
Total/NA	Prep	3510C			392879	12/20/17 08:05	JMP	TAL BUF
Total/NA	Analysis	8081B		1	393068	12/21/17 15:40	JLS	TAL BUF
Total/NA	Prep	3510C			392987	12/20/17 14:26	BEK	TAL BUF
Total/NA	Analysis	8082A		1	393162	12/21/17 23:41	JMO	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394041	12/28/17 21:11	AMH	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394217	12/29/17 17:13	AMH	TAL BUF
Total/NA	Prep	7470A			393525	12/26/17 13:00	EMB	TAL BUF
Total/NA	Analysis	7470A		1	393595	12/26/17 16:12	BMB	TAL BUF

Client Sample ID: SC3-GW-20171218

Lab Sample ID: 480-129224-9

Date Collected: 12/18/17 15:05
Matrix: Water
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393283	12/22/17 18:13	KMN	TAL BUF

Client Sample ID: SC2-GW-20171218

Lab Sample ID: 480-129224-10

Date Collected: 12/18/17 14:20
Matrix: Water
Date Received: 12/20/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393283	12/22/17 18:41	KMN	TAL BUF
Total/NA	Prep	3510C			392888	12/20/17 08:10	JMP	TAL BUF
Total/NA	Analysis	8270D		1	393207	12/22/17 09:43	PJQ	TAL BUF
Total/NA	Prep	3510C			392879	12/20/17 08:05	JMP	TAL BUF
Total/NA	Analysis	8081B		1	393068	12/21/17 15:01	JLS	TAL BUF
Total/NA	Prep	3510C			392987	12/20/17 14:26	BEK	TAL BUF
Total/NA	Analysis	8082A		1	393162	12/21/17 23:09	JMO	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394041	12/28/17 21:15	AMH	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394217	12/29/17 17:27	AMH	TAL BUF
Total/NA	Prep	7470A			393525	12/26/17 13:00	EMB	TAL BUF
Total/NA	Analysis	7470A		1	393595	12/26/17 16:14	BMB	TAL BUF

Lab Chronicle

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Client Sample ID: FB1-20171218

Date Collected: 12/18/17 15:20
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393283	12/22/17 19:08	KMN	TAL BUF
Total/NA	Prep	3510C			392888	12/20/17 08:10	JMP	TAL BUF
Total/NA	Analysis	8270D		1	393207	12/22/17 13:02	PJQ	TAL BUF
Total/NA	Prep	3510C			392879	12/20/17 08:05	JMP	TAL BUF
Total/NA	Analysis	8081B		1	393068	12/21/17 16:00	JLS	TAL BUF
Total/NA	Prep	3510C			392987	12/20/17 14:26	BEK	TAL BUF
Total/NA	Analysis	8082A		1	393162	12/21/17 23:57	JMO	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394041	12/28/17 21:45	AMH	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394217	12/29/17 17:46	AMH	TAL BUF
Total/NA	Prep	3005A			392978	12/21/17 08:55	EMB	TAL BUF
Total/NA	Analysis	6010C		1	394696	01/05/18 14:54	AMH	TAL BUF
Total/NA	Prep	7470A			393525	12/26/17 13:00	EMB	TAL BUF
Total/NA	Analysis	7470A		1	393595	12/26/17 16:22	BMB	TAL BUF

Client Sample ID: TRIP-BLANK-1

Date Collected: 12/18/17 00:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393280	12/22/17 16:44	ARS	TAL BUF

Client Sample ID: TRIP-BLANK-2

Date Collected: 12/18/17 00:00
Date Received: 12/20/17 01:00

Lab Sample ID: 480-129224-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	393280	12/22/17 17:10	ARS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7471B	Mercury (CVAA)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-129224-1	SC2-9-20171218	Solid	12/18/17 10:05	12/20/17 01:00
480-129224-2	SC1-9-20171218	Solid	12/18/17 10:35	12/20/17 01:00
480-129224-3	SC3-8-10-20171218	Solid	12/18/17 11:30	12/20/17 01:00
480-129224-4	SC4-8-10-20171218	Solid	12/18/17 14:00	12/20/17 01:00
480-129224-5	DUPE1-20171218	Solid	12/18/17 14:00	12/20/17 01:00
480-129224-6	SC1-GW-20171218	Water	12/18/17 12:55	12/20/17 01:00
480-129224-7	SC4-GW-20171218	Water	12/18/17 14:50	12/20/17 01:00
480-129224-8	DUPE2-20171218	Water	12/18/17 14:50	12/20/17 01:00
480-129224-9	SC3-GW-20171218	Water	12/18/17 15:05	12/20/17 01:00
480-129224-10	SC2-GW-20171218	Water	12/18/17 14:20	12/20/17 01:00
480-129224-11	FB1-20171218	Water	12/18/17 15:20	12/20/17 01:00
480-129224-12	TRIP-BLANK-1	Water	12/18/17 00:00	12/20/17 01:00
480-129224-13	TRIP-BLANK-2	Water	12/18/17 00:00	12/20/17 01:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-129224 COC

Client Information	Sampler:	Lab PM: Deyo, Melissa L	COC No: 480-106139-25045.2
Client Contact: Barbara Firebaugh	Phone:	E-Mail: melissa.deyo@testamericainc.com	Page: Page 2 of 4
Company: HDR Inc			Job #:
Address: 16 Corporate Woods Blvd. Ste 204	Due Date Requested:		
City: Albany	TAT Requested (days):		
State, Zip: NY, 12211			
Phone:	PO #: Purchase Order not required		
Email: barbara.firebaugh@hdrinc.com	WO #:		
Project Name: Former Stamp's Cleaners	Project #: 48017222		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	6010C, 7471B	8081B, 8082A, 8270D	8260C - TCL VOCs	8082A - PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C, 7470A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A	N	N	N	D		
SC2-9-20171218	12-18-17	1005	G	Solid			X								1	
SC1-9-20171218	12-18-17	1035	G	Solid			X								1	
SC3-8-10-20171218	12-18-17	1130	G	Solid		Y	X	X	X						12	+ MS/MSD
SC4-8-10-20171218	12-18-17	1400	G	Solid			X	X	X						4	
DUPE1_20171218	12-18-17	1400	G	Solid			X	X	X						4	
SC1-GW-20171218	12-18-17	1255	G	Water						X					3	
SC4-GW-20171218	12-18-17	1450	G	Water						X	X	X	X	X	10	
DUPE2-20171218	12-18-17	1450	G	Water						X	X	X	X	X	8	1 Jar for PCB/PEST EACH
SC3-GW-20171218	12-18-17	1505	G	Water						X					3	
SC2-GW-20171218	12-18-17	1420	G	Water		X				X	X	X	X	X	30	+ MS/MSD
FB1-20171218	12-18-17	1526	G	Water						X	X	X	X	X	10	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ______ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 12-19-17 1200	Company: HDR	Received by: R. English	Date/Time: 12-19-17, 12:00	Company: Syr
Relinquished by: R. English	Date/Time: 12-19-17, 19:00	Company: Syr	Received by: [signature]	Date/Time: 12-20-17 0100	Company: TAB
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.5, 1.9, 2.0 #1		

Ver: 08/04/2016

480325 - Syracuse SC

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-106139-25045.1
Client Contact: Barbara Firebaugh	Phone:	E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 4
Company: HDR Inc				Job #
Address: 16 Corporate Woods Blvd. Ste 204	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: NY, 12211				
Phone:	PO #: Purchase Order not required			
Email: barbara.firebaugh@hdrinc.com	WO #:			
Project Name: Former Stamp's Cleaners	Project #: 48017222			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	6010C, 7471B	8081B, 8082A, 8270D	8260C - TCL VOCs	8082A - PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C, 7470A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A	N	N	N	D		
TRIP-BLANK-1	-	-	-	~~Solid~~ WATER						X					2	
TRIP-BLANK-2	-	-	-	~~Solid~~ WATER						X					2	
				Solid												
				Solid												
				Solid												
RE				Solid												
				Solid												
12-19-17				Solid												
				Solid												
				Solid												
				Solid												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	12-19-17 1200	HDR	RECEIVED	12-19-17, 15:00	Eyn
RECEIVED	12-19-17, 15:00	Eyn		12-20-17 0100	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.5, 1.9, 2.0 #1

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 480-129224-1

Login Number: 129224
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	HDR
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-129737-1
Client Project/Site: NYSDEC - Former Stamp's Cleaners

For:
HDR Inc
16 Corporate Woods Blvd.
Ste 204
Albany, New York 12211

Attn: Barbara Firebaugh

Authorized for release by:
1/11/2018 12:05:29 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 13
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 19

Definitions/Glossary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
vs	Reported analyte concentrations are below 200 ug/kg and may be biased low due to the sample not being collected according to 5035A-L low-level specifications.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-129737-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-129737-1

Receipt
The samples were received on 1/5/2018 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Client Sample ID: SC-5-1.5"-20180102 — Lab Sample ID: 480-129737-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	19	J vs	28	4.7	ug/Kg	1	☼	8260C	Total/NA
Ethylbenzene	0.56	J vs	5.6	0.39	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	4.8	J vs	5.6	0.85	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	5.2	J vs	5.6	0.75	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.2	J vs	5.6	0.42	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	4.1	J vs	11	0.94	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: SC-6-6"-20180102 — Lab Sample ID: 480-129737-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9	J vs	28	4.8	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.83	J vs	5.7	0.76	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SC-5-1.5"-20180102
Date Collected: 01/02/18 13:35
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129737-1
Matrix: Solid
Percent Solids: 86.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.6	0.41	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,1,2,2-Tetrachloroethane	ND	vs	5.6	0.91	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.6	1.3	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,1,2-Trichloroethane	ND	vs	5.6	0.73	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,1-Dichloroethane	ND	vs	5.6	0.69	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,1-Dichloroethene	ND	vs	5.6	0.69	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,2,4-Trichlorobenzene	ND	vs	5.6	0.34	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.6	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,2-Dibromoethane	ND	vs	5.6	0.72	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,2-Dichlorobenzene	ND	vs	5.6	0.44	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,2-Dichloroethane	ND	vs	5.6	0.28	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,2-Dichloropropane	ND	vs	5.6	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,3-Dichlorobenzene	ND	vs	5.6	0.29	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
1,4-Dichlorobenzene	ND	vs	5.6	0.79	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Acetone	**19**	**J vs**	28	4.7	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Benzene	ND	vs	5.6	0.28	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Bromodichloromethane	ND	vs	5.6	0.75	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Bromoform	ND	vs	5.6	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Bromomethane	ND	vs	5.6	0.51	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Carbon disulfide	ND	vs	5.6	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Carbon tetrachloride	ND	vs	5.6	0.54	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Chlorobenzene	ND	vs	5.6	0.74	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Chloroethane	ND	vs	5.6	1.3	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Chloroform	ND	vs	5.6	0.35	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Chloromethane	ND	vs	5.6	0.34	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
cis-1,2-Dichloroethene	ND	vs	5.6	0.72	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
cis-1,3-Dichloropropene	ND	vs	5.6	0.81	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Cyclohexane	ND	vs	5.6	0.79	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Dibromochloromethane	ND	vs	5.6	0.72	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Dichlorodifluoromethane	ND	vs	5.6	0.46	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Ethylbenzene	**0.56**	**J vs**	5.6	0.39	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Isopropylbenzene	ND	vs	5.6	0.85	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Methyl tert-butyl ether	ND	vs	5.6	0.55	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Methylcyclohexane	**4.8**	**J vs**	5.6	0.85	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Methylene Chloride	ND	vs	5.6	2.6	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Styrene	ND	vs	5.6	0.28	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Tetrachloroethene	**5.2**	**J vs**	5.6	0.75	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Toluene	**1.2**	**J vs**	5.6	0.42	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
trans-1,2-Dichloroethene	ND	vs	5.6	0.58	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
trans-1,3-Dichloropropene	ND	vs	5.6	2.5	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Trichloroethene	ND	vs	5.6	1.2	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Trichlorofluoromethane	ND	vs	5.6	0.53	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Vinyl chloride	ND	vs	5.6	0.69	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1
Xylenes, Total	**4.1**	**J vs**	11	0.94	ug/Kg	☼	01/09/18 08:56	01/09/18 14:01	1

Client Sample ID: SC-5-1.5"-20180102

Lab Sample ID: 480-129737-1
Date Collected: 01/02/18 13:35
Matrix: Solid
Date Received: 01/05/18 11:00
Percent Solids: 86.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*01/09/18 08:56*	*01/09/18 14:01*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*01/09/18 08:56*	*01/09/18 14:01*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 140*	*01/09/18 08:56*	*01/09/18 14:01*	*1*
Toluene-d8 (Surr)	*104*		*71 - 125*	*01/09/18 08:56*	*01/09/18 14:01*	*1*

Client Sample ID: SC-6-6"-20180102

Lab Sample ID: 480-129737-2
Date Collected: 01/02/18 14:30
Matrix: Solid
Date Received: 01/05/18 11:00
Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	vs	5.7	0.41	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,1,2,2-Tetrachloroethane	ND	vs	5.7	0.92	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	vs	5.7	1.3	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,1,2-Trichloroethane	ND	vs	5.7	0.74	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,1-Dichloroethane	ND	vs	5.7	0.69	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,1-Dichloroethene	ND	vs	5.7	0.69	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,2,4-Trichlorobenzene	ND	vs	5.7	0.34	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,2-Dibromo-3-Chloropropane	ND	vs	5.7	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,2-Dibromoethane	ND	vs	5.7	0.73	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,2-Dichlorobenzene	ND	vs	5.7	0.44	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,2-Dichloroethane	ND	vs	5.7	0.28	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,2-Dichloropropane	ND	vs	5.7	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,3-Dichlorobenzene	ND	vs	5.7	0.29	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
1,4-Dichlorobenzene	ND	vs	5.7	0.79	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
2-Butanone (MEK)	ND	vs	28	2.1	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
2-Hexanone	ND	vs	28	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
4-Methyl-2-pentanone (MIBK)	ND	vs	28	1.9	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Acetone	**8.9**	**J vs**	28	4.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Benzene	ND	vs	5.7	0.28	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Bromodichloromethane	ND	vs	5.7	0.76	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Bromoform	ND	vs	5.7	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Bromomethane	ND	vs	5.7	0.51	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Carbon disulfide	ND	vs	5.7	2.8	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Carbon tetrachloride	ND	vs	5.7	0.55	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Chlorobenzene	ND	vs	5.7	0.75	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Chloroethane	ND	vs	5.7	1.3	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Chloroform	ND	vs	5.7	0.35	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Chloromethane	ND	vs	5.7	0.34	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
cis-1,2-Dichloroethene	ND	vs	5.7	0.73	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
cis-1,3-Dichloropropene	ND	vs	5.7	0.82	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Cyclohexane	ND	vs	5.7	0.79	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Dibromochloromethane	ND	vs	5.7	0.73	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Dichlorodifluoromethane	ND	vs	5.7	0.47	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Ethylbenzene	ND	vs	5.7	0.39	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Isopropylbenzene	ND	vs	5.7	0.85	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Methyl acetate	ND	vs	28	3.4	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Methyl tert-butyl ether	ND	vs	5.7	0.56	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Methylcyclohexane	ND	vs	5.7	0.86	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Methylene Chloride	ND	vs	5.7	2.6	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1

Client Sample ID: SC-6-6"-20180102
Date Collected: 01/02/18 14:30
Date Received: 01/05/18 11:00

Lab Sample ID: 480-129737-2
Matrix: Solid
Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND	vs	5.7	0.28	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Tetrachloroethene	**0.83**	**J vs**	5.7	0.76	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Toluene	ND	vs	5.7	0.43	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
trans-1,2-Dichloroethene	ND	vs	5.7	0.58	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
trans-1,3-Dichloropropene	ND	vs	5.7	2.5	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Trichloroethene	ND	vs	5.7	1.2	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Trichlorofluoromethane	ND	vs	5.7	0.54	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Vinyl chloride	ND	vs	5.7	0.69	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1
Xylenes, Total	ND	vs	11	0.95	ug/Kg	☼	01/09/18 08:56	01/09/18 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*01/09/18 08:56*	*01/09/18 14:26*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*01/09/18 08:56*	*01/09/18 14:26*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*01/09/18 08:56*	*01/09/18 14:26*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*01/09/18 08:56*	*01/09/18 14:26*	*1*

Surrogate Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(60-140)	(71-125)
480-129737-1	SC-5-1.5"-20180102	106	93	103	104
480-129737-2	SC-6-6"-20180102	106	102	104	98
LCS 480-394971/1-A	Lab Control Sample	107	103	105	99
MB 480-394971/2-A	Method Blank	105	105	105	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-394971/2-A
Matrix: Solid
Analysis Batch: 394961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394971

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
2-Hexanone	ND		25	2.5	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Acetone	ND		25	4.2	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Benzene	ND		5.0	0.25	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Bromoform	ND		5.0	2.5	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Bromomethane	ND		5.0	0.45	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Chloroethane	ND		5.0	1.1	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Chloroform	ND		5.0	0.31	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Chloromethane	ND		5.0	0.30	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Cyclohexane	ND		5.0	0.70	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Methyl acetate	ND		25	3.0	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Styrene	ND		5.0	0.25	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Toluene	ND		5.0	0.38	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Trichloroethene	ND		5.0	1.1	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		01/09/18 08:56	01/09/18 12:03	1
Xylenes, Total	ND		10	0.84	ug/Kg		01/09/18 08:56	01/09/18 12:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*01/09/18 08:56*	*01/09/18 12:03*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 126*	*01/09/18 08:56*	*01/09/18 12:03*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*01/09/18 08:56*	*01/09/18 12:03*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*01/09/18 08:56*	*01/09/18 12:03*	*1*

Lab Sample ID: LCS 480-394971/1-A
Matrix: Solid
Analysis Batch: 394961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	77 - 121
1,1,2,2-Tetrachloroethane	50.0	48.8		ug/Kg		98	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.4		ug/Kg		105	60 - 140
1,1,2-Trichloroethane	50.0	47.8		ug/Kg		96	78 - 122
1,1-Dichloroethane	50.0	49.5		ug/Kg		99	73 - 126
1,1-Dichloroethene	50.0	49.4		ug/Kg		99	59 - 125
1,2,4-Trichlorobenzene	50.0	47.6		ug/Kg		95	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	51.8		ug/Kg		104	63 - 124
1,2-Dibromoethane	50.0	48.6		ug/Kg		97	78 - 120
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	48.4		ug/Kg		97	77 - 122
1,2-Dichloropropane	50.0	47.6		ug/Kg		95	75 - 124
1,3-Dichlorobenzene	50.0	46.1		ug/Kg		92	74 - 120
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	73 - 120
2-Butanone (MEK)	250	282		ug/Kg		113	70 - 134
2-Hexanone	250	273		ug/Kg		109	59 - 130
4-Methyl-2-pentanone (MIBK)	250	262		ug/Kg		105	65 - 133
Acetone	250	283		ug/Kg		113	61 - 137
Benzene	50.0	48.3		ug/Kg		97	79 - 127
Bromodichloromethane	50.0	49.9		ug/Kg		100	80 - 122
Bromoform	50.0	50.7		ug/Kg		101	68 - 126
Bromomethane	50.0	53.4		ug/Kg		107	37 - 149
Carbon disulfide	50.0	50.6		ug/Kg		101	64 - 131
Carbon tetrachloride	50.0	53.3		ug/Kg		107	75 - 135
Chlorobenzene	50.0	47.2		ug/Kg		94	76 - 124
Chloroethane	50.0	54.4		ug/Kg		109	69 - 135
Chloroform	50.0	48.9		ug/Kg		98	80 - 120
Chloromethane	50.0	54.4		ug/Kg		109	63 - 127
cis-1,2-Dichloroethene	50.0	47.4		ug/Kg		95	81 - 120
cis-1,3-Dichloropropene	50.0	48.2		ug/Kg		96	80 - 120
Cyclohexane	50.0	50.2		ug/Kg		100	65 - 120
Dibromochloromethane	50.0	50.9		ug/Kg		102	76 - 125
Dichlorodifluoromethane	50.0	61.3		ug/Kg		123	57 - 142
Ethylbenzene	50.0	47.0		ug/Kg		94	80 - 120
Isopropylbenzene	50.0	46.9		ug/Kg		94	72 - 120
Methyl acetate	100	110		ug/Kg		110	55 - 136
Methyl tert-butyl ether	50.0	48.8		ug/Kg		98	63 - 125
Methylcyclohexane	50.0	49.9		ug/Kg		100	60 - 140
Methylene Chloride	50.0	45.9		ug/Kg		92	61 - 127
Styrene	50.0	45.9		ug/Kg		92	80 - 120
Tetrachloroethene	50.0	48.5		ug/Kg		97	74 - 122
Toluene	50.0	45.7		ug/Kg		91	74 - 128
trans-1,2-Dichloroethene	50.0	48.5		ug/Kg		97	78 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-394971/1-A
Matrix: Solid
Analysis Batch: 394961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394971

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	73 - 123
Trichloroethene	50.0	49.3		ug/Kg		99	77 - 129
Trichlorofluoromethane	50.0	57.9		ug/Kg		116	65 - 146
Vinyl chloride	50.0	54.5		ug/Kg		109	61 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*
Dibromofluoromethane (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*99*		*71 - 125*

QC Association Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

GC/MS VOA

Analysis Batch: 394961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129737-1	SC-5-1.5"-20180102	Total/NA	Solid	8260C	394971
480-129737-2	SC-6-6"-20180102	Total/NA	Solid	8260C	394971
MB 480-394971/2-A	Method Blank	Total/NA	Solid	8260C	394971
LCS 480-394971/1-A	Lab Control Sample	Total/NA	Solid	8260C	394971

Prep Batch: 394971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129737-1	SC-5-1.5"-20180102	Total/NA	Solid	5035A_L	
480-129737-2	SC-6-6"-20180102	Total/NA	Solid	5035A_L	
MB 480-394971/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-394971/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

General Chemistry

Analysis Batch: 394907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-129737-1	SC-5-1.5"-20180102	Total/NA	Solid	Moisture	
480-129737-2	SC-6-6"-20180102	Total/NA	Solid	Moisture	

Lab Chronicle

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Client Sample ID: SC-5-1.5"-20180102
Lab Sample ID: 480-129737-1
Date Collected: 01/02/18 13:35
Matrix: Solid
Date Received: 01/05/18 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394907	01/08/18 15:26	AEM	TAL BUF

Client Sample ID: SC-5-1.5"-20180102
Lab Sample ID: 480-129737-1
Date Collected: 01/02/18 13:35
Matrix: Solid
Date Received: 01/05/18 11:00
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			394971	01/09/18 08:56	AEM	TAL BUF
Total/NA	Analysis	8260C		1	394961	01/09/18 14:01	AEM	TAL BUF

Client Sample ID: SC-6-6"-20180102
Lab Sample ID: 480-129737-2
Date Collected: 01/02/18 14:30
Matrix: Solid
Date Received: 01/05/18 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394907	01/08/18 15:26	AEM	TAL BUF

Client Sample ID: SC-6-6"-20180102
Lab Sample ID: 480-129737-2
Date Collected: 01/02/18 14:30
Matrix: Solid
Date Received: 01/05/18 11:00
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			394971	01/09/18 08:56	AEM	TAL BUF
Total/NA	Analysis	8260C		1	394961	01/09/18 14:26	AEM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-129737-1	SC-5-1.5"-20180102	Solid	01/02/18 13:35	01/05/18 11:00
480-129737-2	SC-6-6"-20180102	Solid	01/02/18 14:30	01/05/18 11:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica — THE LEADER IN ENVIRO

480-129737 COC

Client Information	Sampler: Justin Starr	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-106139-25045.
Client Contact: Barbara Firebaugh	Phone:	E-Mail: melissa.deyo@testamericainc.com		Page: Page 3 of 4
Company: HDR Inc				Job #:
Address: 16 Corporate Woods Blvd. Ste 204	Due Date Requested:			
City: Albany	TAT Requested (days):			
State, Zip: NY, 12211				
Phone:	PO #: Purchase Order not required			
Email: barbara.firebaugh@hdrinc.com	WO #:			
Project Name: Former Stamp's Cleaners	Project #: 48017222			
Site:	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	6010C, 7471B	8081B, 8082A, 8270D	8260C - TCL VOCs	8082A - PCBs	8081B - TCL Pesticides	8270D - TCL SVOCs	6010C, 7470A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A	N	N	N	D		
SC-5-1.5'-20180102	1-2-18	1335	G	Water			X									
SC-6-6"-20180102	1-2-18	1430	G	Water			X									
RE 1-4-18				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												
				Water												

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ________ Months

Deliverable Requested: I, II, III, (IV), Other (specify) CAT B

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 1-4-18, 13:05	Company: HDR	Received by: R. English	Date/Time: 1-4-18, 13:05	Company: Syr
Relinquished by: R. English	Date/Time: 1-4-18, 19:00	Company: Syr	Received by: [signature]	Date/Time: 01/05/18 1100	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.2 #1 ICE

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: HDR Inc

Job Number: 480-129737-1

Login Number: 129737
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	HDR
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix C

Analytical Data Summary Package – Soil Gas and Soil Vapor Intrusion

CHEMTECH

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : WORK ASSIGNMENT #37 FORMER STAMPS CLEANERS - SC

HDR, INC.

16 Corporate Woods Blvd.

Building 16, Suite 204

Albany, NY - 12211

Phone No: 518-937-9500

ORDER ID : J1066

ATTENTION : Barbara Firebaugh

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

Table Of Contents for J1066

1) Signature Page 3

2) Case Narrative 7

2.1) TO-15- Case Narrative 7

3) Qualifier Page 26

4) QA Checklist 27

5) TO-15 Data 28

6) Shipping Document 149

6.1) CHAIN OF CUSTODY 150

6.2) Air Bill 163

6.3) ROC 166

6.4) Lab Certificate 168

6.5) Internal COC 169

6.6)Air Sample Pressure & Dilution Logbook 170

6.7)Storage Location Lable 171

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : J1066

Project ID : Work Assignment #37 Former Stamps Cleaners - SC

Client : HDR, Inc.

Lab Sample Number	Client Sample Number
J1066-01	SC-OA2-20180103
J1066-02	SC-SG3-20180103
J1066-03	SC-SG2-20180103
J1066-04	SC-SG1-20180103
J1066-05	SC-SG4-20180103
J1066-06	SC-SG5-20180103
J1066-07	SC-SG6-20180103
J1066-08	SC-SS2-20180103
J1066-09	SC-SS1-20180103
J1066-10	SC-DUPE1-20180103
J1066-11	SC-IA1-20180103
J1066-12	SC-OA-20180103
J1066-13	SC-IA2-20180103

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

APPROVED

Date: 1/25/2018

By Mildred V Reyes, QAQC Supervisor at 10:58 am, Jan 26, 2018

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
SC-OA2-20180103	J1066-01	TO-15					
SC-SG3-20180103	J1066-02	TO-15					
SC-SG2-20180103	J1066-03	TO-15					
SC-SG1-20180103	J1066-04	TO-15					
SC-SG4-20180103	J1066-05	TO-15					
SC-SG5-20180103	J1066-06	TO-15					
SC-SG6-20180103	J1066-07	TO-15					
SC-SS2-20180103	J1066-08	TO-15					
SC-SS1-20180103	J1066-09	TO-15					
SC-DUPE1-20180103	J1066-10	TO-15					
SC-IA1-20180103	J1066-11	TO-15					
SC-OA-20180103	J1066-12	TO-15					
SC-IA2-20180103	J1066-13	TO-15					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
J1066-01	Air	01/03/18	01/08/18		01/12/18
J1066-02	Air	01/03/18	01/08/18		01/12/18
J1066-03	Air	01/03/18	01/08/18		01/17/18
J1066-04	Air	01/03/18	01/08/18		01/18/18
J1066-05	Air	01/03/18	01/08/18		01/18/18
J1066-06	Air	01/03/18	01/08/18		01/18/18
J1066-07	Air	01/03/18	01/08/18		01/18/18
J1066-08	Air	01/03/18	01/08/18		01/11/18
J1066-09	Air	01/03/18	01/08/18		01/11/18
J1066-10	Air	01/03/18	01/08/18		01/11/18
J1066-11	Air	01/03/18	01/08/18		01/12/18
J1066-12	Air	01/03/18	01/08/18		01/12/18
J1066-13	Air	01/03/18	01/08/18		01/16/18

* Details For Test :TO-15

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
J1066-01	Air	TO-15	NA		
J1066-02	Air	TO-15	NA		
J1066-03	Air	TO-15	NA		
J1066-04	Air	TO-15	NA		
J1066-05	Air	TO-15	NA		
J1066-06	Air	TO-15	NA		
J1066-07	Air	TO-15	NA		
J1066-08	Air	TO-15	NA		
J1066-09	Air	TO-15	NA		
J1066-10	Air	TO-15	NA		
J1066-11	Air	TO-15	NA		
J1066-12	Air	TO-15	NA		
J1066-13	Air	TO-15	NA		

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

HDR, Inc.
Project Name: Work Assignment #37 Former Stamps Cleaners - SC
Project # N/A
Chemtech Project # J1066
Test Name: TO-15

A. Number of Samples and Date of Receipt:
13 Air samples were received on 01/08/2018.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator.The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD recoveries met criteria.

The Blank Spike for {VL0116ABS01} with File ID: VL031378.D met requirements for all samples except for 1,1,2,2-Tetrachloroethane[65%], Acetone[62%] and tert-Butyl Alcohol[67%] .

The Blank Spike for {VL0117ABS01} with File ID: VL031398.D met requirements for all samples except for Dichlorodifluoromethane[63%], Naphthalene[140%] .

The Blank analysis indicated presence of Methylene Chloride[0.63 ug/m3] FileID:VL031340.D{VL0111ABL01},

The Blank analysis indicated presence of Acetone [0.62 ug/m3], Methylene Chloride [0.76 ug/m3] File ID :VL031377.D{VL0116ABL01},

The Blank analysis indicated presence of Methylene Chloride [0.49 ug/m3]. FileID: VL031397.D {VL0117ABL01} due to possible lab contamination.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

The Initial Calibration met the requirements except for Dichlorodifluoromethane have more than 30% RSD in the Initial Calibration with dated 01/02/2018 with L Instrument , as per method two compounds as allowed to be fail .

The Initial Calibration met the requirements except for Naphthalene have more than 30% RSD in the Initial Calibration with dated 01/18/2018 with L Instrument, as per method two compounds as allowed to be fail .

The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Samples SC-SG1-20180103 was diluted due to bad matrix.
Samples SC-SG4-20180103, SC-SS1-20180103 and SC-DUPE1-20180103 were diluted due to high concentrations.

E. Additional Comments:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Manual Integrations are performed for the followings:

Sequence	VL010218	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL031316.D	1,3-Butadiene	sam	1/4/2018 10:29:34 AM	MMDadoda	1/4/2018 1:39:22 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL031316.D	Chlorobenzene-d5	sam	1/4/2018 10:29:34 AM	MMDadoda	1/4/2018 1:39:22 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL031316.D	m/p-Xylene	sam	1/4/2018 10:29:34 AM	MMDadoda	1/4/2018 1:39:22 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL031317.D	1,2,4-Trichlorobenzene	sam	1/4/2018 10:29:40 AM	MMDadoda	1/4/2018 1:39:23 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL031317.D	1,4-Dichlorobenzene	sam	1/4/2018 10:29:40 AM	MMDadoda	1/4/2018 1:39:23 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VSTDICC002	VL031317.D	m/p-Xylene	sam	1/4/2018 10:29:40 AM	MMDadoda	1/4/2018 1:39:23 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL031317.D	Naphthalene	sam	1/4/2018 10:29:40 AM	MMDadoda	1/4/2018 1:39:23 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031318.D	1,2,4-Trichlorobenzene	sam	1/4/2018 10:31:08 AM	MMDadoda	1/4/2018 1:39:24 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031318.D	1,3-Butadiene	sam	1/4/2018 10:31:08 AM	MMDadoda	1/4/2018 1:39:24 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031318.D	1,3-Dichlorobenzene	sam	1/4/2018 10:31:08 AM	MMDadoda	1/4/2018 1:39:24 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031318.D	1,4-Dioxane	sam	1/4/2018 10:31:08 AM	MMDadoda	1/4/2018 1:39:24 PM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL031318.D	Benzyl Chloride	sam	1/4/2018 10:31:08 AM	MMDadoda	1/4/2018 1:39:24 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031318.D	m/p-Xylene	sam	1/4/2018 10:31:08 AM	MMDadoda	1/4/2018 1:39:24 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031318.D	Naphthalene	sam	1/4/2018 10:31:08 AM	MMDadoda	1/4/2018 1:39:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	1,1-Dichloroethene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	1,2,4-Trichlorobenzene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	1,2,4-Trimethylbenzene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	1,2-Dichlorobenzene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VSTDICC0.5	VL031319.D	1,2-Dichloropropane	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	1,4-Dioxane	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	Benzyl Chloride	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	cis-1,3-Dichloropropene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	Ethanol	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly

Sequence	VL010218	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL031319.D	m/p-Xylene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	Naphthalene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	Styrene	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031319.D	tert-Butyl alcohol	sam	1/4/2018 10:29:46 AM	MMDadoda	1/4/2018 1:39:26 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL031320.D	Tetrachloroethene	sam	1/4/2018 10:31:13 AM	MMDadoda	1/4/2018 1:39:27 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031321.D	1,1,1-Trichloroethane	sam	1/4/2018 10:31:18 AM	MMDadoda	1/4/2018 1:39:28 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031321.D	1,1,2,2-Tetrachloroethane	sam	1/4/2018 10:31:18 AM	MMDadoda	1/4/2018 1:39:28 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031321.D	Carbon Tetrachloride	sam	1/4/2018 10:31:18	MMDadoda	1/4/2018 1:39:28 PM	Peak Integrated

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

				AM			by Software incorrectly
VSTDICC0.03	VL031321.D	Tetrachloroethene	sam	1/4/2018 10:31:18 AM	MMDadoda	1/4/2018 1:39:28 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031321.D	Trichloroethene	sam	1/4/2018 10:31:18 AM	MMDadoda	1/4/2018 1:39:28 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL031322.D	m/p-Xylene	sam	1/4/2018 10:31:24 AM	MMDadoda	1/4/2018 1:39:29 PM	Peak Integrated by Software incorrectly

VSTDICV010	VL031323.D	1,4-Dioxane	sam	1/4/2018 10:29:52 AM	MMDadoda	1/4/2018 1:39:30 PM	Peak Integrated by Software incorrectly

Sequence	VL010218	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VL031323.D	Chlorobenzene-d5	sam	1/4/2018 10:29:52 AM	MMDadoda	1/4/2018 1:39:30 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL031323.D	m/p-Xylene	sam	1/4/2018 10:29:52 AM	MMDadoda	1/4/2018 1:39:30 PM	Peak Integrated by Software incorrectly

Sequence	VL011118	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL031339.D	Chlorobenzene-d5	sam	1/12/2018 10:49:09 AM	MMDadoda	1/15/2018 3:31:42 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL031339.D	m/p-Xylene	sam	1/12/2018 10:49:09 AM	MMDadoda	1/15/2018 3:31:42 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VL0111ABL01	VL031340.D	Methylene Chloride	sam	1/12/2018 10:49:13 AM	MMDadoda	1/15/2018 3:31:43 PM	Peak Integrated by Software incorrectly
VL0111ABS01	VL031341.D	1,3-Butadiene	sam	1/12/2018 10:58:22 AM	MMDadoda	1/15/2018 3:31:44 PM	Peak Integrated by Software incorrectly
VL0111ABS01	VL031341.D	Chlorobenzene-d5	sam	1/12/2018 10:58:22 AM	MMDadoda	1/15/2018 3:31:44 PM	Peak Integrated by Software incorrectly
VL0111ABS01	VL031341.D	m/p-Xylene	sam	1/12/2018 10:58:22 AM	MMDadoda	1/15/2018 3:31:44 PM	Peak Integrated by Software incorrectly

J1066-08	VL031349.D	Chlorodifluoromethane	sam	1/15/2018 10:38:06 AM	MMDadoda	1/15/2018 3:31:53 PM	Peak Integrated by Software incorrectly
J1066-08	VL031349.D	Propene	sam	1/15/2018 10:38:06 AM	MMDadoda	1/15/2018 3:31:53 PM	Peak Integrated by Software incorrectly
J1066-08	VL031349.D	Trichloroethene	sam	1/15/2018 10:38:06 AM	MMDadoda	1/15/2018 3:31:53 PM	Peak Integrated by Software incorrectly

J1066-09	VL031351.D	1,2,4-Trimethylbenzene	sam	1/15/2018 10:38:12 AM	MMDadoda	1/15/2018 3:31:59 PM	Peak Integrated by Software incorrectly
J1066-09	VL031351.D	Carbon Tetrachloride	sam	1/15/2018 10:38:12 AM	MMDadoda	1/15/2018 3:31:59 PM	Peak Integrated by Software incorrectly

Sequence	VL011118	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-09	VL031351.D	Cyclohexane	sam	1/15/2018 10:38:12 AM	MMDadoda	1/15/2018 3:31:59 PM	Peak Integrated by Software incorrectly
J1066-09	VL031351.D	m/p-Xylene	sam	1/15/2018 10:38:12 AM	MMDadoda	1/15/2018 3:31:59 PM	Peak Integrated by Software incorrectly
J1066-09	VL031351.D	Propene	sam	1/15/2018 10:38:12 AM	MMDadoda	1/15/2018 3:31:59 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

J1066-09	VL031351.D	Tetrahydrofuran	sam	1/15/2018 10:38:12 AM	MMDadoda	1/15/2018 3:31:59 PM	Peak Integrated by Software incorrectly
J1066-09	VL031351.D	Trichloroethene	sam	1/15/2018 10:38:12 AM	MMDadoda	1/15/2018 3:31:59 PM	Peak Integrated by Software incorrectly
J1066-09DL	VL031352.D	Methylene Chloride	sam	1/12/2018 10:49:54 AM	MMDadoda	1/15/2018 3:32:00 PM	Peak Integrated by Software incorrectly
J1066-10	VL031353.D	Chlorodifluoromethane	sam	1/12/2018 10:53:47 AM	MMDadoda	1/15/2018 3:32:02 PM	Peak Integrated by Software incorrectly
J1066-10	VL031353.D	Chloroform	sam	1/12/2018 10:53:47 AM	MMDadoda	1/15/2018 3:32:02 PM	Peak Integrated by Software incorrectly
J1066-10	VL031353.D	Propene	sam	1/12/2018 10:53:47 AM	MMDadoda	1/15/2018 3:32:02 PM	Peak Integrated by Software incorrectly
J1066-10	VL031353.D	Tetrahydrofuran	sam	1/12/2018 10:53:47 AM	MMDadoda	1/15/2018 3:32:02 PM	Peak Integrated by Software incorrectly
J1066-10DL	VL031354.D	Heptane	sam	1/12/2018 10:53:52 AM	MMDadoda	1/15/2018 3:32:05 PM	Peak Integrated by Software incorrectly
J1066-10DL	VL031354.D	Toluene	sam	1/12/2018 10:53:52 AM	MMDadoda	1/15/2018 3:32:05 PM	Peak Integrated by Software incorrectly

Sequence	VL011118	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-11	VL031355.D	1,1,2-Trichlorotrifluoroethane	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	1,2,4-Trimethylbenzene	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	Carbon Tetrachloride	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	Chlorodifluoromethane	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	Chloroform	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	Cyclohexane	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

J1066-11	VL031355.D	Isopropyl Alcohol	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	m/p-Xylene	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	o-Xylene	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	Propene	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-11	VL031355.D	Tetrachloroethene	sam	1/15/2018 10:38:20 AM	MMDadoda	1/15/2018 3:32:06 PM	Peak Integrated by Software incorrectly
J1066-12	VL031357.D	Acetone	sam	1/15/2018 10:38:42 AM	MMDadoda	1/15/2018 3:32:07 PM	Peak Integrated by Software incorrectly

Sequence	VL011118	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-12	VL031357.D	Carbon Tetrachloride	sam	1/15/2018 10:38:42 AM	MMDadoda	1/15/2018 3:32:07 PM	Peak Integrated by Software incorrectly
J1066-12	VL031357.D	Chlorodifluoromethane	sam	1/15/2018 10:38:42 AM	MMDadoda	1/15/2018 3:32:07 PM	Peak Integrated by Software incorrectly
J1066-12	VL031357.D	Cyclohexane	sam	1/15/2018 10:38:42 AM	MMDadoda	1/15/2018 3:32:07 PM	Peak Integrated by Software incorrectly
J1066-12	VL031357.D	Ethanol	sam	1/15/2018 10:38:42 AM	MMDadoda	1/15/2018 3:32:07 PM	Peak Integrated by Software incorrectly
J1066-12	VL031357.D	Isopropyl Alcohol	sam	1/15/2018 10:38:42 AM	MMDadoda	1/15/2018 3:32:07 PM	Peak Integrated by Software incorrectly
J1066-12	VL031357.D	Propene	sam	1/15/2018 10:38:42 AM	MMDadoda	1/15/2018 3:32:07 PM	Peak Integrated by Software incorrectly
J1066-12	VL031357.D	Toluene	sam	1/15/2018	MMDadoda	1/15/2018	Peak

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

				10:38:42 AM		3:32:07 PM	Integrated by Software incorrectly
J1066-01	VL031364.D	1,2,4-Trimethylbenzene	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-01	VL031364.D	2-Butanone	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly

Sequence	VL011118	Instrument	MSVOA_l

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-01	VL031364.D	Carbon Tetrachloride	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-01	VL031364.D	Chlorodifluoromethane	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-01	VL031364.D	Ethanol	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-01	VL031364.D	Isopropyl Alcohol	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-01	VL031364.D	m/p-Xylene	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-01	VL031364.D	o-Xylene	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-01	VL031364.D	Tetrachloroethene	sam	1/15/2018 10:38:49 AM	MMDadoda	1/15/2018 3:32:11 PM	Peak Integrated by Software incorrectly
J1066-02	VL031366.D	Carbon Tetrachloride	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly
J1066-02	VL031366.D	Chlorodifluoromethane	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

							incorrectly
J1066-02	VL031366.D	Cyclohexane	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly
J1066-02	VL031366.D	Ethanol	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-02	VL031366.D	Isopropyl Alcohol	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly
J1066-02	VL031366.D	m/p-Xylene	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly
J1066-02	VL031366.D	Tetrachloroethene	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly
J1066-02	VL031366.D	Trichloroethene	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly
J1066-02	VL031366.D	Trichlorofluoromethane	sam	1/15/2018 10:38:55 AM	MMDadoda	1/15/2018 3:32:14 PM	Peak Integrated by Software incorrectly

Sequence	VL011618	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL031369.D	1,3-Butadiene	sam	1/17/2018 5:45:42 PM	apatel	1/18/2018 4:41:35 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL031369.D	m/p-Xylene	sam	1/17/2018 5:45:42 PM	apatel	1/18/2018 4:41:35 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL031370.D	Dibromochloromethane	sam	1/17/2018 5:45:47 PM	apatel	1/18/2018 4:41:39 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL031370.D	m/p-Xylene	sam	1/17/2018 5:45:47 PM	apatel	1/18/2018 4:41:39 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031371.D	Benzyl Chloride	sam	1/17/2018 5:47:05	apatel	1/18/2018 4:48:20 PM	Peak Integrated

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

				PM			by Software incorrectly
VSTDICC001	VL031371.D	Hexachloro-1,3-Butadiene	sam	1/17/2018 5:47:05 PM	apatel	1/18/2018 4:48:20 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031371.D	m/p-Xylene	sam	1/17/2018 5:47:05 PM	apatel	1/18/2018 4:48:20 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031371.D	sec-Butylbenzene	sam	1/17/2018 5:47:05 PM	apatel	1/18/2018 4:48:20 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031372.D	1,2,4-Trichlorobenzene	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031372.D	Benzyl Chloride	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031372.D	Chloroethane	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly

Sequence	VL011618	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL031372.D	Ethyl Benzene	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031372.D	m/p-Xylene	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031372.D	Methyl Methacrylate	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031372.D	Naphthalene	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VSTDICC0.5	VL031372.D	Styrene	sam	1/17/2018 5:45:53 PM	apatel	1/18/2018 4:48:24 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL031373.D	1,1,2,2-Tetrachloroethane	sam	1/17/2018 5:45:59 PM	apatel	1/18/2018 4:48:28 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL031373.D	Tetrachloroethene	sam	1/17/2018 5:45:59 PM	apatel	1/18/2018 4:48:28 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL031373.D	Trichloroethene	sam	1/17/2018 5:45:59 PM	apatel	1/18/2018 4:48:28 PM	Peak Integrated by Software incorrectly
VSTDICC00.03	VL031374.D	1,1,1-Trichloroethane	sam	1/17/2018 5:47:12 PM	apatel	1/18/2018 4:48:34 PM	Peak Integrated by Software incorrectly
VSTDICC00.03	VL031374.D	1,1,2,2-Tetrachloroethane	sam	1/17/2018 5:47:12 PM	apatel	1/18/2018 4:48:34 PM	Peak Integrated by Software incorrectly
VSTDICC00.03	VL031374.D	Carbon Tetrachloride	sam	1/17/2018 5:47:12 PM	apatel	1/18/2018 4:48:34 PM	Peak Integrated by Software incorrectly
VSTDICC00.03	VL031374.D	Tetrachloroethene	sam	1/17/2018 5:47:12 PM	apatel	1/18/2018 4:48:34 PM	Peak Integrated by Software incorrectly

Sequence	VL011618	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC00.03	VL031374.D	Trichloroethene	sam	1/17/2018 5:47:12 PM	apatel	1/18/2018 4:48:34 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL031375.D	Chlorobenzene-d5	sam	1/17/2018 5:46:08 PM	apatel	1/18/2018 4:50:53 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL031375.D	m/p-Xylene	sam	1/17/2018 5:46:08 PM	apatel	1/18/2018 4:50:53 PM	Peak Integrated by Software incorrectly
VL0116ABS01	VL031378.D	Chlorobenzene-d5	sam	1/17/2018 5:46:18 PM	apatel	1/18/2018 4:58:53 PM	Peak Integrated by Software incorrectly
VL0116ABS01	VL031378.D	m/p-Xylene	sam	1/17/2018 5:46:18 PM	apatel	1/18/2018 4:58:53 PM	Peak Integrated by Software incorrectly
J1066-13	VL031380.D	Cyclohexane	sam	1/17/2018	apatel	1/18/2018	Peak Integrated

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

				5:46:40 PM		5:05:46 PM	by Software incorrectly
J1066-13DUP	VL031381.D	Benzene	sam	1/17/2018 5:46:25 PM	apatel	1/18/2018 5:05:50 PM	Peak Integrated by Software incorrectly
J1066-13DUP	VL031381.D	Carbon Tetrachloride	sam	1/17/2018 5:46:25 PM	apatel	1/18/2018 5:05:50 PM	Peak Integrated by Software incorrectly
J1066-13DUP	VL031381.D	Cyclohexane	sam	1/17/2018 5:46:25 PM	apatel	1/18/2018 5:05:50 PM	Peak Integrated by Software incorrectly
J1066-13DUP	VL031381.D	Ethyl Benzene	sam	1/17/2018 5:46:25 PM	apatel	1/18/2018 5:05:50 PM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-13DUP	VL031381.D	Styrene	sam	1/17/2018 5:46:25 PM	apatel	1/18/2018 5:05:50 PM	Peak Integrated by Software incorrectly
J1066-03	VL031383.D	Carbon Tetrachloride	sam	1/17/2018 5:46:51 PM	apatel	1/18/2018 5:20:35 PM	Peak Integrated by Software incorrectly
J1066-03	VL031383.D	Cyclohexane	sam	1/17/2018 5:46:51 PM	apatel	1/18/2018 5:20:35 PM	Peak Integrated by Software incorrectly
J1066-03	VL031383.D	m/p-Xylene	sam	1/17/2018 5:46:51 PM	apatel	1/18/2018 5:20:35 PM	Peak Integrated by Software incorrectly
J1066-03	VL031383.D	Trichloroethene	sam	1/17/2018 5:46:51 PM	apatel	1/18/2018 5:20:35 PM	Peak Integrated by Software incorrectly

Sequence	VL011718	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL031389.D	Chlorobenzene-d5	sam	1/18/2018 5:41:34 PM	apatel	1/19/2018 11:19:34 AM	Peak Integrated by Software incorrectly
VSTDICCC010	VL031389.D	m/p-Xylene	sam	1/18/2018 5:41:34 PM	apatel	1/19/2018 11:19:34 AM	Peak Integrated by Software incorrectly
VSTDICC002	VL031390.D	1,4-Dioxane	sam	1/18/2018 5:41:39 PM	MMDadoda	1/19/2018 5:59:28 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VSTDICC002	VL031390.D	m/p-Xylene	sam	1/18/2018 5:41:39 PM	MMDadoda	1/19/2018 5:59:28 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL031390.D	tert-Butyl alcohol	sam	1/18/2018 5:41:39 PM	MMDadoda	1/19/2018 5:59:28 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL031390.D	tert-Butylbenzene	sam	1/18/2018 5:41:39 PM	MMDadoda	1/19/2018 5:59:28 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031391.D	1,2,4-Trichlorobenzene	sam	1/18/2018 5:43:16 PM	MMDadoda	1/19/2018 5:59:29 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031391.D	1,4-Dioxane	sam	1/18/2018 5:43:16 PM	MMDadoda	1/19/2018 5:59:29 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031391.D	Benzyl Chloride	sam	1/18/2018 5:43:16 PM	MMDadoda	1/19/2018 5:59:29 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031391.D	Hexachloro-1,3-Butadiene	sam	1/18/2018 5:43:16 PM	MMDadoda	1/19/2018 5:59:29 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031391.D	m/p-Xylene	sam	1/18/2018 5:43:16 PM	MMDadoda	1/19/2018 5:59:29 PM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL031391.D	Naphthalene	sam	1/18/2018 5:43:16 PM	MMDadoda	1/19/2018 5:59:29 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL031391.D	Tetrachloroethene	sam	1/18/2018 5:43:16 PM	MMDadoda	1/19/2018 5:59:29 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	1,1,1,2-Tetrachloroethane	sam	1/18/2018 5:41:44	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

				PM			by Software incorrectly
VSTDICC0.5	VL031392.D	1,2,4-Trichlorobenzene	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	1,4-Dioxane	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	2-Chlorotoluene	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	Benzyl Chloride	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	Ethanol	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	m/p-Xylene	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	Naphthalene	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	tert-Butyl alcohol	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL031392.D	Tetrachloroethene	sam	1/18/2018 5:41:44 PM	MMDadoda	1/19/2018 5:59:30 PM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL031393.D	Tetrachloroethene	sam	1/18/2018 5:41:48 PM	MMDadoda	1/19/2018 5:59:31 PM	Peak Integrated by Software

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

							incorrectly
VSTDICC0.1	VL031393.D	Trichloroethene	sam	1/18/2018 5:41:48 PM	MMDadoda	1/19/2018 5:59:31 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL031393.D	Vinyl Chloride	sam	1/18/2018 5:41:48 PM	MMDadoda	1/19/2018 5:59:31 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031394.D	1,1,1-Trichloroethane	sam	1/18/2018 5:41:57 PM	MMDadoda	1/19/2018 5:59:32 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031394.D	1,1,2,2-Tetrachloroethane	sam	1/18/2018 5:41:57 PM	MMDadoda	1/19/2018 5:59:32 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031394.D	Carbon Tetrachloride	sam	1/18/2018 5:41:57 PM	MMDadoda	1/19/2018 5:59:32 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031394.D	Tetrachloroethene	sam	1/18/2018 5:41:57 PM	MMDadoda	1/19/2018 5:59:32 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031394.D	Trichloroethene	sam	1/18/2018 5:41:57 PM	MMDadoda	1/19/2018 5:59:32 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL031394.D	Vinyl Chloride	sam	1/18/2018 5:41:57 PM	MMDadoda	1/19/2018 5:59:32 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL031395.D	m/p-Xylene	sam	1/18/2018 5:41:52 PM	MMDadoda	1/19/2018 5:59:33 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL031396.D	Chlorobenzene-d5	sam	1/18/2018 5:43:23 PM	MMDadoda	1/19/2018 5:59:38 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL031396.D	m/p-Xylene	sam	1/18/2018 5:43:23 PM	MMDadoda	1/19/2018 5:59:38 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Sequence	VL011718	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VL0117ABS01	VL031398.D	Chlorobenzene-d5	sam	1/19/2018 12:59:38 PM	MMDadoda	1/19/2018 5:59:36 PM	Peak Integrated by Software incorrectly
VL0117ABS01	VL031398.D	m/p-Xylene	sam	1/19/2018 12:59:38 PM	MMDadoda	1/19/2018 5:59:36 PM	Peak Integrated by Software incorrectly
J1066-04	VL031400.D	Carbon Disulfide	sam	1/19/2018 12:59:42 PM	MMDadoda	1/19/2018 5:59:40 PM	Peak Integrated by Software incorrectly
J1066-04	VL031400.D	Cyclohexane	sam	1/19/2018 12:59:42 PM	MMDadoda	1/19/2018 5:59:40 PM	Peak Integrated by Software incorrectly
J1066-04	VL031400.D	Ethanol	sam	1/19/2018 12:59:42 PM	MMDadoda	1/19/2018 5:59:40 PM	Peak Integrated by Software incorrectly
J1066-04	VL031400.D	m/p-Xylene	sam	1/19/2018 12:59:42 PM	MMDadoda	1/19/2018 5:59:40 PM	Peak Integrated by Software incorrectly
J1066-05	VL031401.D	Carbon Tetrachloride	sam	1/19/2018 5:40:27 PM	MMDadoda	1/19/2018 5:59:41 PM	Peak Integrated by Software incorrectly
J1066-05	VL031401.D	Cyclohexane	sam	1/19/2018 5:40:27 PM	MMDadoda	1/19/2018 5:59:41 PM	Peak Integrated by Software incorrectly
J1066-05	VL031401.D	m/p-Xylene	sam	1/19/2018 5:40:27 PM	MMDadoda	1/19/2018 5:59:41 PM	Peak Integrated by Software incorrectly
J1066-05	VL031401.D	Trichloroethene	sam	1/19/2018 5:40:27 PM	MMDadoda	1/19/2018 5:59:41 PM	Peak Integrated by Software incorrectly
J1066-05DL	VL031402.D	Cyclohexane	sam	1/19/2018 12:59:46 PM	MMDadoda	1/19/2018 5:59:42 PM	Peak Integrated by Software incorrectly
J1066-05DL	VL031402.D	Ethanol	sam	1/19/2018 12:59:46 PM	MMDadoda	1/19/2018 5:59:42 PM	Peak Integrated by Software incorrectly

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-06	VL031403.D	Carbon Tetrachloride	sam	1/19/2018 5:40:32 PM	MMDadoda	1/19/2018 5:59:44 PM	Peak Integrated by Software incorrectly
J1066-06	VL031403.D	Chlorodifluoromethane	sam	1/19/2018 5:40:32 PM	MMDadoda	1/19/2018 5:59:44 PM	Peak Integrated by Software incorrectly
J1066-06	VL031403.D	Ethyl Benzene	sam	1/19/2018 5:40:32 PM	MMDadoda	1/19/2018 5:59:44 PM	Peak Integrated by Software incorrectly
J1066-06	VL031403.D	Isopropyl Alcohol	sam	1/19/2018 5:40:32 PM	MMDadoda	1/19/2018 5:59:44 PM	Peak Integrated by Software incorrectly
J1066-06	VL031403.D	m/p-Xylene	sam	1/19/2018 5:40:32 PM	MMDadoda	1/19/2018 5:59:44 PM	Peak Integrated by Software incorrectly
J1066-06	VL031403.D	o-Xylene	sam	1/19/2018 5:40:32 PM	MMDadoda	1/19/2018 5:59:44 PM	Peak Integrated by Software incorrectly
J1066-06	VL031403.D	Propene	sam	1/19/2018 5:40:32 PM	MMDadoda	1/19/2018 5:59:44 PM	Peak Integrated by Software incorrectly
J1066-06DL	VL031404.D	Cyclohexane	sam	1/19/2018 12:59:51 PM	MMDadoda	1/19/2018 5:59:45 PM	Peak Integrated by Software incorrectly
J1066-06DL	VL031404.D	Propene	sam	1/19/2018 12:59:51 PM	MMDadoda	1/19/2018 5:59:45 PM	Peak Integrated by Software incorrectly
J1066-07	VL031405.D	Carbon Tetrachloride	sam	1/19/2018 5:41:03 PM	MMDadoda	1/19/2018 5:59:47 PM	Peak Integrated by Software incorrectly
J1066-07	VL031405.D	Chlorodifluoromethane	sam	1/19/2018 5:41:03 PM	MMDadoda	1/19/2018 5:59:47 PM	Peak Integrated by

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

							Software incorrectly
J1066-07	VL031405.D	Propene	sam	1/19/2018 5:41:03 PM	MMDadoda	1/19/2018 5:59:47 PM	Peak Integrated by Software incorrectly

Sequence	VL011718	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
J1066-07	VL031405.D	tert-Butyl alcohol	sam	1/19/2018 5:41:03 PM	MMDadoda	1/19/2018 5:59:47 PM	Peak Integrated by Software incorrectly
J1066-07	VL031405.D	Tetrachloroethene	sam	1/19/2018 5:41:03 PM	MMDadoda	1/19/2018 5:59:47 PM	Peak Integrated by Software incorrectly

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_Mildred V Reyes

APPROVED

By Mildred V Reyes, QAQC Supervisor at 10:58 am, Jan 26, 2018

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: J1066

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: KALPANA RAYTHATTHA **Date:** 01/25/2018

2nd Level QA Review Signature: Mildred V Reyes **Date:**

APPROVED
By Mildred V Reyes, QAQC Supervisor at 10:58 am, Jan 26, 2018

CHEMTECH
284 Sheffield Street, Mountainside, New Jersey - 07092
Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	J1066	**OrderDate:**	1/9/2018 10:12:10 AM
Client:	HDR, Inc.	**Project:**	Work Assignment #37 Former Stamps Cleaners - SC
Contact:	Barbara Firebaugh	**Location:**	--Select--

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
J1066-01	**SC-OA2-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/12/18	
J1066-02	**SC-SG3-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/12/18	
J1066-03	**SC-SG2-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/17/18	
J1066-04	**SC-SG1-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/18/18	
J1066-05	**SC-SG4-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/18/18	
J1066-05DL	**SC-SG4-20180103DL**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/18/18	
J1066-06	**SC-SG5-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/18/18	
J1066-07	**SC-SG6-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/18/18	
J1066-08	**SC-SS2-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/11/18	
J1066-09	**SC-SS1-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/11/18	
J1066-09DL	**SC-SS1-20180103DL**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/11/18	
J1066-10	**SC-DUPE1-20180103**	**Air**			**01/03/18**			**01/08/18**
			TO-15	TO-15			01/11/18	

LAB CHRONICLE

J1066-10DL	**SC-DUPE1-20180103 DL**	**Air**			**01/03/18**		**01/08/18**
			TO-15	TO-15		01/11/18	
J1066-11	**SC-IA1-20180103**	**Air**			**01/03/18**		**01/08/18**
			TO-15	TO-15		01/12/18	
J1066-12	**SC-OA-20180103**	**Air**			**01/03/18**		**01/08/18**
			TO-15	TO-15		01/12/18	
J1066-13	**SC-IA2-20180103**	**Air**			**01/03/18**		**01/08/18**
			TO-15	TO-15		01/16/18	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**SC-OA2-20180103**								
J1066-01	SC-OA2-20180103	Air	Dichlorodifluoromethane	1.19	J	0.1	0.49	2.47	ug/m3
J1066-01	SC-OA2-20180103	Air	Chloromethane	0.97	J	0.04	0.21	1.03	ug/m3
J1066-01	SC-OA2-20180103	Air	Trichlorofluoromethane	1.35	J	0.11	0.56	2.81	ug/m3
J1066-01	SC-OA2-20180103	Air	Acetone	6.65		0.05	0.24	1.19	ug/m3
J1066-01	SC-OA2-20180103	Air	Methylene Chloride	32.70	B	0.14	0.35	1.74	ug/m3
J1066-01	SC-OA2-20180103	Air	2-Butanone	1.27	J	0.06	0.29	1.47	ug/m3
J1066-01	SC-OA2-20180103	Air	Carbon Tetrachloride	0.50		0.06	0.19	0.19	ug/m3
J1066-01	SC-OA2-20180103	Air	Benzene	0.73	J	0.03	0.32	1.6	ug/m3
J1066-01	SC-OA2-20180103	Air	Toluene	1.32	J	0.08	0.38	1.88	ug/m3
J1066-01	SC-OA2-20180103	Air	m/p-Xylene	0.56	J	0.17	0.87	4.34	ug/m3
J1066-01	SC-OA2-20180103	Air	1,2,4-Trimethylbenzene	0.49	J	0.1	0.49	2.46	ug/m3
J1066-01	SC-OA2-20180103	Air	Hexane	2.57		0.04	0.35	1.76	ug/m3
			Total Voc :	50.3					
			Total Concentration:	50.3					
Client ID:	**SC-SG3-20180103**								
J1066-02	SC-SG3-20180103	Air	Dichlorodifluoromethane	0.69	J	0.1	0.49	2.47	ug/m3
J1066-02	SC-SG3-20180103	Air	Chloromethane	1.05		0.04	0.21	1.03	ug/m3
J1066-02	SC-SG3-20180103	Air	Trichlorofluoromethane	1.29	J	0.11	0.56	2.81	ug/m3
J1066-02	SC-SG3-20180103	Air	Heptane	0.53	J	0.04	0.41	2.05	ug/m3
J1066-02	SC-SG3-20180103	Air	Acetone	6.65		0.05	0.24	1.19	ug/m3
J1066-02	SC-SG3-20180103	Air	Methylene Chloride	7.99	B	0.14	0.35	1.74	ug/m3
J1066-02	SC-SG3-20180103	Air	Cyclohexane	0.34	J	0.07	0.34	1.72	ug/m3
J1066-02	SC-SG3-20180103	Air	2-Butanone	1.74		0.06	0.29	1.47	ug/m3
J1066-02	SC-SG3-20180103	Air	Carbon Tetrachloride	0.50		0.06	0.19	0.19	ug/m3
J1066-02	SC-SG3-20180103	Air	Benzene	0.77	J	0.03	0.32	1.6	ug/m3
J1066-02	SC-SG3-20180103	Air	Toluene	3.01		0.08	0.38	1.88	ug/m3
J1066-02	SC-SG3-20180103	Air	m/p-Xylene	0.78	J	0.17	0.87	4.34	ug/m3
J1066-02	SC-SG3-20180103	Air	o-Xylene	0.48	J	0.09	0.43	2.17	ug/m3
J1066-02	SC-SG3-20180103	Air	Hexane	0.88	J	0.04	0.35	1.76	ug/m3
			Total Voc :	26.7					
			Total Concentration:	26.7					
Client ID:	**SC-SG2-20180103**								
J1066-03	SC-SG2-20180103	Air	Dichlorodifluoromethane	1.83	J	0.1	0.49	2.47	ug/m3
J1066-03	SC-SG2-20180103	Air	Chloromethane	0.37	J	0.04	0.21	1.03	ug/m3
J1066-03	SC-SG2-20180103	Air	Trichlorofluoromethane	1.07	J	0.11	0.56	2.81	ug/m3
J1066-03	SC-SG2-20180103	Air	tert-Butyl alcohol	8.79	Q	0.12	0.3	1.52	ug/m3
J1066-03	SC-SG2-20180103	Air	Heptane	3.52		0.04	0.41	2.05	ug/m3

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
J1066-03	SC-SG2-20180103	Air	Acetone	9.03	B	0.05	0.24	1.19	ug/m3
J1066-03	SC-SG2-20180103	Air	Carbon Disulfide	2.74		0.06	0.31	1.56	ug/m3
J1066-03	SC-SG2-20180103	Air	Methylene Chloride	2.33	B	0.14	0.35	1.74	ug/m3
J1066-03	SC-SG2-20180103	Air	Cyclohexane	1.45	J	0.07	0.34	1.72	ug/m3
J1066-03	SC-SG2-20180103	Air	2-Butanone	1.83		0.06	0.29	1.47	ug/m3
J1066-03	SC-SG2-20180103	Air	Carbon Tetrachloride	0.25		0.06	0.19	0.19	ug/m3
J1066-03	SC-SG2-20180103	Air	Chloroform	1.47	J	0.1	0.49	2.44	ug/m3
J1066-03	SC-SG2-20180103	Air	2,2,4-Trimethylpentane	0.75	J	0.05	0.47	2.34	ug/m3
J1066-03	SC-SG2-20180103	Air	Benzene	0.67	J	0.03	0.32	1.6	ug/m3
J1066-03	SC-SG2-20180103	Air	Trichloroethene	0.27		0.11	0.16	0.16	ug/m3
J1066-03	SC-SG2-20180103	Air	Toluene	1.88		0.08	0.38	1.88	ug/m3
J1066-03	SC-SG2-20180103	Air	Tetrachloroethene	1.56		0.14	0.2	0.2	ug/m3
J1066-03	SC-SG2-20180103	Air	m/p-Xylene	1.35	J	0.17	0.87	4.34	ug/m3
J1066-03	SC-SG2-20180103	Air	o-Xylene	0.74	J	0.09	0.43	2.17	ug/m3
J1066-03	SC-SG2-20180103	Air	1,2,4-Trimethylbenzene	0.88	J	0.1	0.49	2.46	ug/m3
J1066-03	SC-SG2-20180103	Air	1,3-Butadiene	4.20		0.07	0.22	1.11	ug/m3
J1066-03	SC-SG2-20180103	Air	Hexane	3.88		0.04	0.35	1.76	ug/m3
			Total Voc :	50.86					
			Total Concentration:	50.86					
Client ID:	**SC-SG1-20180103**								
J1066-04	SC-SG1-20180103	Air	Chloromethane	0.33	J	0.06	0.27	1.34	ug/m3
J1066-04	SC-SG1-20180103	Air	Trichlorofluoromethane	1.18	J	0.17	0.73	3.65	ug/m3
J1066-04	SC-SG1-20180103	Air	tert-Butyl alcohol	13.30		0.18	0.39	1.97	ug/m3
J1066-04	SC-SG1-20180103	Air	Acetone	8.55		0.07	0.31	1.54	ug/m3
J1066-04	SC-SG1-20180103	Air	Carbon Disulfide	0.72	J	0.09	0.4	2.02	ug/m3
J1066-04	SC-SG1-20180103	Air	Methylene Chloride	5.21	B	0.21	0.45	2.26	ug/m3
J1066-04	SC-SG1-20180103	Air	Cyclohexane	2.24		0.1	0.45	2.24	ug/m3
J1066-04	SC-SG1-20180103	Air	2-Butanone	1.24	J	0.06	0.38	1.92	ug/m3
J1066-04	SC-SG1-20180103	Air	2,2,4-Trimethylpentane	0.47	J	0.09	0.61	3.04	ug/m3
J1066-04	SC-SG1-20180103	Air	Toluene	1.13	J	0.11	0.49	2.45	ug/m3
J1066-04	SC-SG1-20180103	Air	Tetrachloroethene	4.41		0.14	0.27	0.27	ug/m3
J1066-04	SC-SG1-20180103	Air	m/p-Xylene	0.87	J	0.22	1.13	5.65	ug/m3
J1066-04	SC-SG1-20180103	Air	Hexane	2.26	J	0.07	0.46	2.29	ug/m3
			Total Voc :	41.91					
			Total Concentration:	41.91					
Client ID:	**SC-SG4-20180103**								
J1066-05	SC-SG4-20180103	Air	Trichlorofluoromethane	0.84	J	0.11	0.56	2.81	ug/m3
J1066-05	SC-SG4-20180103	Air	tert-Butyl alcohol	3.33		0.12	0.3	1.52	ug/m3

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
J1066-05	SC-SG4-20180103	Air	Acetone	8.08		0.05	0.24	1.19	ug/m3
J1066-05	SC-SG4-20180103	Air	Carbon Disulfide	1.84		0.06	0.31	1.56	ug/m3
J1066-05	SC-SG4-20180103	Air	Methylene Chloride	3.82	B	0.14	0.35	1.74	ug/m3
J1066-05	SC-SG4-20180103	Air	Cyclohexane	1.96		0.07	0.34	1.72	ug/m3
J1066-05	SC-SG4-20180103	Air	2-Butanone	1.18	J	0.06	0.29	1.47	ug/m3
J1066-05	SC-SG4-20180103	Air	Carbon Tetrachloride	0.19		0.06	0.19	0.19	ug/m3
J1066-05	SC-SG4-20180103	Air	Benzene	2.11		0.03	0.32	1.6	ug/m3
J1066-05	SC-SG4-20180103	Air	Trichloroethene	0.48		0.11	0.16	0.16	ug/m3
J1066-05	SC-SG4-20180103	Air	Toluene	2.15		0.08	0.38	1.88	ug/m3
J1066-05	SC-SG4-20180103	Air	Tetrachloroethene	292.00	E	0.14	0.2	0.2	ug/m3
J1066-05	SC-SG4-20180103	Air	m/p-Xylene	1.00	J	0.17	0.87	4.34	ug/m3
J1066-05	SC-SG4-20180103	Air	o-Xylene	0.56	J	0.09	0.43	2.17	ug/m3
J1066-05	SC-SG4-20180103	Air	1,2,4-Trimethylbenzene	0.88	J	0.1	0.49	2.46	ug/m3
J1066-05	SC-SG4-20180103	Air	Hexane	2.40		0.04	0.35	1.76	ug/m3
			Total Voc :	322.82					
			Total Concentration:	322.82					
Client ID:	**SC-SG4-20180103DL**								
J1066-05DL	SC-SG4-20180103DL	Air	Tetrachloroethene	251.00	D	1.22	2.03	2.03	ug/m3
			Total Voc :	251					
			Total Concentration:	251					
Client ID:	**SC-SG5-20180103**								
J1066-06	SC-SG5-20180103	Air	Dichlorodifluoromethane	0.59	JQ	0.1	0.49	2.47	ug/m3
J1066-06	SC-SG5-20180103	Air	Chloromethane	0.64	J	0.04	0.21	1.03	ug/m3
J1066-06	SC-SG5-20180103	Air	Trichlorofluoromethane	1.29	J	0.11	0.56	2.81	ug/m3
J1066-06	SC-SG5-20180103	Air	tert-Butyl alcohol	4.55		0.12	0.3	1.52	ug/m3
J1066-06	SC-SG5-20180103	Air	Heptane	57.80		0.04	0.41	2.05	ug/m3
J1066-06	SC-SG5-20180103	Air	Acetone	11.90		0.05	0.24	1.19	ug/m3
J1066-06	SC-SG5-20180103	Air	Carbon Disulfide	4.98		0.06	0.31	1.56	ug/m3
J1066-06	SC-SG5-20180103	Air	Methylene Chloride	2.47	B	0.14	0.35	1.74	ug/m3
J1066-06	SC-SG5-20180103	Air	Cyclohexane	11.00		0.07	0.34	1.72	ug/m3
J1066-06	SC-SG5-20180103	Air	2-Butanone	2.15		0.06	0.29	1.47	ug/m3
J1066-06	SC-SG5-20180103	Air	Carbon Tetrachloride	0.44		0.06	0.19	0.19	ug/m3
J1066-06	SC-SG5-20180103	Air	Benzene	3.00		0.03	0.32	1.6	ug/m3
J1066-06	SC-SG5-20180103	Air	4-Methyl-2-Pentanone	0.78	J	0.08	0.41	2.05	ug/m3
J1066-06	SC-SG5-20180103	Air	Toluene	5.65		0.08	0.38	1.88	ug/m3
J1066-06	SC-SG5-20180103	Air	Tetrachloroethene	2.44		0.14	0.2	0.2	ug/m3
J1066-06	SC-SG5-20180103	Air	Ethyl Benzene	0.52	J	0.04	0.43	2.17	ug/m3
J1066-06	SC-SG5-20180103	Air	m/p-Xylene	1.82	J	0.17	0.87	4.34	ug/m3

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
J1066-06	SC-SG5-20180103	Air	o-Xylene	0.83	J	0.09	0.43	2.17	ug/m3
J1066-06	SC-SG5-20180103	Air	1,2,4-Trimethylbenzene	0.79	J	0.1	0.49	2.46	ug/m3
J1066-06	SC-SG5-20180103	Air	Hexane	48.60		0.04	0.35	1.76	ug/m3
			Total Voc :	162.24					
			Total Concentration:	162.24					
Client ID:	**SC-SG6-20180103**								
J1066-07	SC-SG6-20180103	Air	Dichlorodifluoromethane	1.73	JQ	0.1	0.49	2.47	ug/m3
J1066-07	SC-SG6-20180103	Air	Chloromethane	0.66	J	0.04	0.21	1.03	ug/m3
J1066-07	SC-SG6-20180103	Air	Trichlorofluoromethane	1.18	J	0.11	0.56	2.81	ug/m3
J1066-07	SC-SG6-20180103	Air	tert-Butyl alcohol	2.39		0.12	0.3	1.52	ug/m3
J1066-07	SC-SG6-20180103	Air	Heptane	2.34		0.04	0.41	2.05	ug/m3
J1066-07	SC-SG6-20180103	Air	Acetone	13.10		0.05	0.24	1.19	ug/m3
J1066-07	SC-SG6-20180103	Air	Carbon Disulfide	0.72	J	0.06	0.31	1.56	ug/m3
J1066-07	SC-SG6-20180103	Air	Methylene Chloride	15.60	B	0.14	0.35	1.74	ug/m3
J1066-07	SC-SG6-20180103	Air	Cyclohexane	2.55		0.07	0.34	1.72	ug/m3
J1066-07	SC-SG6-20180103	Air	2-Butanone	1.30	J	0.06	0.29	1.47	ug/m3
J1066-07	SC-SG6-20180103	Air	Carbon Tetrachloride	0.31		0.06	0.19	0.19	ug/m3
J1066-07	SC-SG6-20180103	Air	Chloroform	3.27		0.1	0.49	2.44	ug/m3
J1066-07	SC-SG6-20180103	Air	2,2,4-Trimethylpentane	0.47	J	0.05	0.47	2.34	ug/m3
J1066-07	SC-SG6-20180103	Air	Benzene	1.02	J	0.03	0.32	1.6	ug/m3
J1066-07	SC-SG6-20180103	Air	Toluene	6.41		0.08	0.38	1.88	ug/m3
J1066-07	SC-SG6-20180103	Air	Tetrachloroethene	0.61		0.14	0.2	0.2	ug/m3
J1066-07	SC-SG6-20180103	Air	Ethyl Benzene	0.69	J	0.04	0.43	2.17	ug/m3
J1066-07	SC-SG6-20180103	Air	m/p-Xylene	2.87	J	0.17	0.87	4.34	ug/m3
J1066-07	SC-SG6-20180103	Air	o-Xylene	1.35	J	0.09	0.43	2.17	ug/m3
J1066-07	SC-SG6-20180103	Air	1,2,4-Trimethylbenzene	0.64	J	0.1	0.49	2.46	ug/m3
J1066-07	SC-SG6-20180103	Air	Hexane	7.75		0.04	0.35	1.76	ug/m3
			Total Voc :	66.96					
			Total Concentration:	66.96					
Client ID:	**SC-SS2-20180103**								
J1066-08	SC-SS2-20180103	Air	Dichlorodifluoromethane	1.73	J	0.1	0.49	2.47	ug/m3
J1066-08	SC-SS2-20180103	Air	Chloromethane	0.78	J	0.04	0.21	1.03	ug/m3
J1066-08	SC-SS2-20180103	Air	Tetrahydrofuran	0.53	J	0.03	0.29	1.47	ug/m3
J1066-08	SC-SS2-20180103	Air	Trichlorofluoromethane	1.40	J	0.11	0.56	2.81	ug/m3
J1066-08	SC-SS2-20180103	Air	Heptane	5.74		0.04	0.41	2.05	ug/m3
J1066-08	SC-SS2-20180103	Air	Acetone	13.10		0.05	0.24	1.19	ug/m3
J1066-08	SC-SS2-20180103	Air	Carbon Disulfide	3.43		0.06	0.31	1.56	ug/m3
J1066-08	SC-SS2-20180103	Air	Methylene Chloride	4.52	B	0.14	0.35	1.74	ug/m3

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
J1066-08	SC-SS2-20180103	Air	Cyclohexane	3.20		0.07	0.34	1.72	ug/m3
J1066-08	SC-SS2-20180103	Air	2-Butanone	3.24		0.06	0.29	1.47	ug/m3
J1066-08	SC-SS2-20180103	Air	Carbon Tetrachloride	0.38		0.06	0.19	0.19	ug/m3
J1066-08	SC-SS2-20180103	Air	Chloroform	0.98	J	0.1	0.49	2.44	ug/m3
J1066-08	SC-SS2-20180103	Air	2,2,4-Trimethylpentane	3.55		0.05	0.47	2.34	ug/m3
J1066-08	SC-SS2-20180103	Air	Benzene	0.70	J	0.03	0.32	1.6	ug/m3
J1066-08	SC-SS2-20180103	Air	Trichloroethene	0.54		0.11	0.16	0.16	ug/m3
J1066-08	SC-SS2-20180103	Air	Toluene	4.90		0.08	0.38	1.88	ug/m3
J1066-08	SC-SS2-20180103	Air	Tetrachloroethene	94.30		0.14	0.2	0.2	ug/m3
J1066-08	SC-SS2-20180103	Air	Ethyl Benzene	0.78	J	0.04	0.43	2.17	ug/m3
J1066-08	SC-SS2-20180103	Air	m/p-Xylene	2.69	J	0.17	0.87	4.34	ug/m3
J1066-08	SC-SS2-20180103	Air	o-Xylene	1.04	J	0.09	0.43	2.17	ug/m3
J1066-08	SC-SS2-20180103	Air	1,2,4-Trimethylbenzene	0.79	J	0.1	0.49	2.46	ug/m3
J1066-08	SC-SS2-20180103	Air	Hexane	3.88		0.04	0.35	1.76	ug/m3
			Total Voc :	152.2					
			Total Concentration:	152.2					
Client ID:	**SC-SS1-20180103**								
J1066-09	SC-SS1-20180103	Air	Dichlorodifluoromethane	1.34	J	0.1	0.49	2.47	ug/m3
J1066-09	SC-SS1-20180103	Air	Tetrahydrofuran	0.44	J	0.03	0.29	1.47	ug/m3
J1066-09	SC-SS1-20180103	Air	Trichlorofluoromethane	5.00		0.11	0.56	2.81	ug/m3
J1066-09	SC-SS1-20180103	Air	Heptane	0.49	J	0.04	0.41	2.05	ug/m3
J1066-09	SC-SS1-20180103	Air	Acetone	6.18		0.05	0.24	1.19	ug/m3
J1066-09	SC-SS1-20180103	Air	Carbon Disulfide	1.81		0.06	0.31	1.56	ug/m3
J1066-09	SC-SS1-20180103	Air	Methylene Chloride	3.82	B	0.14	0.35	1.74	ug/m3
J1066-09	SC-SS1-20180103	Air	Cyclohexane	0.65	J	0.07	0.34	1.72	ug/m3
J1066-09	SC-SS1-20180103	Air	2-Butanone	2.30		0.06	0.29	1.47	ug/m3
J1066-09	SC-SS1-20180103	Air	Carbon Tetrachloride	0.19		0.06	0.19	0.19	ug/m3
J1066-09	SC-SS1-20180103	Air	Chloroform	0.63	J	0.1	0.49	2.44	ug/m3
J1066-09	SC-SS1-20180103	Air	2,2,4-Trimethylpentane	1.54	J	0.05	0.47	2.34	ug/m3
J1066-09	SC-SS1-20180103	Air	Benzene	0.42	J	0.03	0.32	1.6	ug/m3
J1066-09	SC-SS1-20180103	Air	Trichloroethene	0.27		0.11	0.16	0.16	ug/m3
J1066-09	SC-SS1-20180103	Air	Toluene	1.73	J	0.08	0.38	1.88	ug/m3
J1066-09	SC-SS1-20180103	Air	Tetrachloroethene	134.00	E	0.14	0.2	0.2	ug/m3
J1066-09	SC-SS1-20180103	Air	m/p-Xylene	1.22	J	0.17	0.87	4.34	ug/m3
J1066-09	SC-SS1-20180103	Air	o-Xylene	0.74	J	0.09	0.43	2.17	ug/m3
J1066-09	SC-SS1-20180103	Air	1,2,4-Trimethylbenzene	0.64	J	0.1	0.49	2.46	ug/m3
J1066-09	SC-SS1-20180103	Air	Hexane	1.37	J	0.04	0.35	1.76	ug/m3
			Total Voc :	164.78					

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	164.78					
Client ID:	**SC-SS1-20180103DL**								
J1066-09DL	SC-SS1-20180103DL	Air	Acetone	11.40	JD	0.57	2.38	11.9	ug/m3
J1066-09DL	SC-SS1-20180103DL	Air	Tetrachloroethene	117.00	D	1.22	2.03	2.03	ug/m3
			Total Voc :	128.4					
			Total Concentration:	128.4					
Client ID:	**SC-DUPE1-20180103**								
J1066-10	SC-DUPE1-20180103	Air	Dichlorodifluoromethane	1.78	J	0.1	0.49	2.47	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Chloromethane	0.21	J	0.04	0.21	1.03	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Tetrahydrofuran	0.44	J	0.03	0.29	1.47	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Trichlorofluoromethane	1.46	J	0.11	0.56	2.81	ug/m3
J1066-10	SC-DUPE1-20180103	Air	tert-Butyl alcohol	3.94		0.12	0.3	1.52	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Heptane	5.74		0.04	0.41	2.05	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Acetone	10.20		0.05	0.24	1.19	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Carbon Disulfide	3.74		0.06	0.31	1.56	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Methylene Chloride	6.60	B	0.14	0.35	1.74	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Cyclohexane	3.30		0.07	0.34	1.72	ug/m3
J1066-10	SC-DUPE1-20180103	Air	2-Butanone	2.74		0.06	0.29	1.47	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Carbon Tetrachloride	0.25		0.06	0.19	0.19	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Chloroform	0.68	J	0.1	0.49	2.44	ug/m3
J1066-10	SC-DUPE1-20180103	Air	2,2,4-Trimethylpentane	3.64		0.05	0.47	2.34	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Benzene	0.64	J	0.03	0.32	1.6	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Trichloroethene	0.43		0.11	0.16	0.16	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Toluene	4.15		0.08	0.38	1.88	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Tetrachloroethene	104.00	E	0.14	0.2	0.2	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Ethyl Benzene	0.87	J	0.04	0.43	2.17	ug/m3
J1066-10	SC-DUPE1-20180103	Air	m/p-Xylene	2.95	J	0.17	0.87	4.34	ug/m3
J1066-10	SC-DUPE1-20180103	Air	o-Xylene	1.17	J	0.09	0.43	2.17	ug/m3
J1066-10	SC-DUPE1-20180103	Air	1,2,4-Trimethylbenzene	0.74	J	0.1	0.49	2.46	ug/m3
J1066-10	SC-DUPE1-20180103	Air	Hexane	3.88		0.04	0.35	1.76	ug/m3
			Total Voc :	163.55					
			Total Concentration:	163.55					
Client ID:	**SC-DUPE1-20180103DL**								
J1066-10DL	SC-DUPE1-20180103DL	Air	Heptane	4.92	JD	0.49	4.1	20.5	ug/m3
J1066-10DL	SC-DUPE1-20180103DL	Air	Acetone	15.90	D	0.57	2.38	11.9	ug/m3
J1066-10DL	SC-DUPE1-20180103DL	Air	Carbon Disulfide	3.11	JD	0.69	3.11	15.6	ug/m3
J1066-10DL	SC-DUPE1-20180103DL	Air	2,2,4-Trimethylpentane	3.27	JD	0.56	4.67	23.4	ug/m3
J1066-10DL	SC-DUPE1-20180103DL	Air	Tetrachloroethene	106.00	D	1.22	2.03	2.03	ug/m3
J1066-10DL	SC-DUPE1-20180103DL	Air	Hexane	4.23	JD	0.42	3.52	17.6	ug/m3

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Voc :	137.43					
			Total Concentration:	137.43					
Client ID:	**SC-IA1-20180103**								
J1066-11	SC-IA1-20180103	Air	Dichlorodifluoromethane	1.58	J	0.1	0.49	2.47	ug/m3
J1066-11	SC-IA1-20180103	Air	Chloromethane	0.95	J	0.04	0.21	1.03	ug/m3
J1066-11	SC-IA1-20180103	Air	Tetrahydrofuran	5.01		0.03	0.29	1.47	ug/m3
J1066-11	SC-IA1-20180103	Air	Trichlorofluoromethane	1.29	J	0.11	0.56	2.81	ug/m3
J1066-11	SC-IA1-20180103	Air	Heptane	0.49	J	0.04	0.41	2.05	ug/m3
J1066-11	SC-IA1-20180103	Air	Acetone	6.65		0.05	0.24	1.19	ug/m3
J1066-11	SC-IA1-20180103	Air	Methylene Chloride	6.60	B	0.14	0.35	1.74	ug/m3
J1066-11	SC-IA1-20180103	Air	Cyclohexane	0.55	J	0.07	0.34	1.72	ug/m3
J1066-11	SC-IA1-20180103	Air	2-Butanone	5.31		0.06	0.29	1.47	ug/m3
J1066-11	SC-IA1-20180103	Air	Carbon Tetrachloride	0.44		0.06	0.19	0.19	ug/m3
J1066-11	SC-IA1-20180103	Air	2,2,4-Trimethylpentane	0.65	J	0.05	0.47	2.34	ug/m3
J1066-11	SC-IA1-20180103	Air	Benzene	1.18	J	0.03	0.32	1.6	ug/m3
J1066-11	SC-IA1-20180103	Air	Toluene	3.77		0.08	0.38	1.88	ug/m3
J1066-11	SC-IA1-20180103	Air	Tetrachloroethene	0.20		0.14	0.2	0.2	ug/m3
J1066-11	SC-IA1-20180103	Air	m/p-Xylene	1.39	J	0.17	0.87	4.34	ug/m3
J1066-11	SC-IA1-20180103	Air	o-Xylene	0.56	J	0.09	0.43	2.17	ug/m3
J1066-11	SC-IA1-20180103	Air	1,2,4-Trimethylbenzene	0.49	J	0.1	0.49	2.46	ug/m3
J1066-11	SC-IA1-20180103	Air	Hexane	1.90		0.04	0.35	1.76	ug/m3
			Total Voc :	39.01					
			Total Concentration:	39.01					
Client ID:	**SC-OA-20180103**								
J1066-12	SC-OA-20180103	Air	Dichlorodifluoromethane	1.29	J	0.1	0.49	2.47	ug/m3
J1066-12	SC-OA-20180103	Air	Chloromethane	0.87	J	0.04	0.21	1.03	ug/m3
J1066-12	SC-OA-20180103	Air	Trichlorofluoromethane	1.24	J	0.11	0.56	2.81	ug/m3
J1066-12	SC-OA-20180103	Air	Acetone	3.80		0.05	0.24	1.19	ug/m3
J1066-12	SC-OA-20180103	Air	Methylene Chloride	1.98	B	0.14	0.35	1.74	ug/m3
J1066-12	SC-OA-20180103	Air	Cyclohexane	0.41	J	0.07	0.34	1.72	ug/m3
J1066-12	SC-OA-20180103	Air	2-Butanone	1.12	J	0.06	0.29	1.47	ug/m3
J1066-12	SC-OA-20180103	Air	Carbon Tetrachloride	0.44		0.06	0.19	0.19	ug/m3
J1066-12	SC-OA-20180103	Air	Benzene	0.89	J	0.03	0.32	1.6	ug/m3
J1066-12	SC-OA-20180103	Air	Toluene	0.41	J	0.08	0.38	1.88	ug/m3
J1066-12	SC-OA-20180103	Air	Hexane	1.27	J	0.04	0.35	1.76	ug/m3
			Total Voc :	13.72					
			Total Concentration:	13.72					
Client ID:	**SC-IA2-20180103**								
J1066-13	SC-IA2-20180103	Air	Dichlorodifluoromethane	2.37	J	0.1	0.49	2.47	ug/m3

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: J1066

Client: HDR, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
J1066-13	SC-IA2-20180103	Air	Chloromethane	0.87	J	0.04	0.21	1.03	ug/m3
J1066-13	SC-IA2-20180103	Air	Tetrahydrofuran	2.95		0.03	0.29	1.47	ug/m3
J1066-13	SC-IA2-20180103	Air	Trichlorofluoromethane	1.12	J	0.11	0.56	2.81	ug/m3
J1066-13	SC-IA2-20180103	Air	Heptane	0.70	J	0.04	0.41	2.05	ug/m3
J1066-13	SC-IA2-20180103	Air	Acetone	8.31	B	0.05	0.24	1.19	ug/m3
J1066-13	SC-IA2-20180103	Air	Methylene Chloride	3.30	B	0.14	0.35	1.74	ug/m3
J1066-13	SC-IA2-20180103	Air	Cyclohexane	0.52	J	0.07	0.34	1.72	ug/m3
J1066-13	SC-IA2-20180103	Air	2-Butanone	3.54		0.06	0.29	1.47	ug/m3
J1066-13	SC-IA2-20180103	Air	Carbon Tetrachloride	0.38		0.06	0.19	0.19	ug/m3
J1066-13	SC-IA2-20180103	Air	Benzene	1.15	J	0.03	0.32	1.6	ug/m3
J1066-13	SC-IA2-20180103	Air	Toluene	27.50		0.08	0.38	1.88	ug/m3
J1066-13	SC-IA2-20180103	Air	Ethyl Benzene	0.91	J	0.04	0.43	2.17	ug/m3
J1066-13	SC-IA2-20180103	Air	m/p-Xylene	3.21	J	0.17	0.87	4.34	ug/m3
J1066-13	SC-IA2-20180103	Air	o-Xylene	1.35	J	0.09	0.43	2.17	ug/m3
J1066-13	SC-IA2-20180103	Air	Styrene	0.89	J	0.09	0.43	2.13	ug/m3
J1066-13	SC-IA2-20180103	Air	1,2,4-Trimethylbenzene	1.13	J	0.1	0.49	2.46	ug/m3
J1066-13	SC-IA2-20180103	Air	Hexane	2.22		0.04	0.35	1.76	ug/m3
			Total Voc :	62.42					
			Total Concentration:	62.42					

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-OA2-20180103

Laboratory Id Number : J1066-01

Sampling Date : 01/03/18

Analysis Date : 01/12/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.24	J	1.19		
Chloromethane	74-87-3	50.49	0.47	J	0.97		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	2.8		6.65		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	9.4		32.7		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.5	U	1.72		
2-Butanone	78-93-3	72.11	0.43	J	1.27		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.23	J	0.73		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.35	J	1.32		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Sampling Date : 01/03/18

Field Id Number : SC-OA2-20180103

Analysis Date : 01/12/18

Laboratory Id Number : J1066-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	0.13	J	0.56		
o-Xylene	95-47-6	106.2	0.5	U	2.17		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.1	J	0.49		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.73		2.57		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG3-20180103

Laboratory Id Number : J1066-02

Sampling Date : 01/03/18

Analysis Date : 01/12/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.14	J	0.69		
Chloromethane	74-87-3	50.49	0.51		1.05		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.13	J	0.53		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	2.8		6.65		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	2.3		7.99		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.1	J	0.34		
2-Butanone	78-93-3	72.11	0.59		1.74		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.24	J	0.77		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.8		3.01		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG3-20180103

Laboratory Id Number : J1066-02

Sampling Date : 01/03/18

Analysis Date : 01/12/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	0.18	J	0.78		
o-Xylene	95-47-6	106.2	0.11	J	0.48		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.25	J	0.88		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG2-20180103

Laboratory Id Number : J1066-03

Sampling Date : 01/03/18

Analysis Date : 01/17/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.37	J	1.83		
Chloromethane	74-87-3	50.49	0.18	J	0.37		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.19	J	1.07		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	2.9		8.79		
Heptane	142-82-5	100.2	0.86		3.52		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	3.8		9.03		
Carbon Disulfide	75-15-0	76.14	0.88		2.74		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.67		2.33		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.42	J	1.45		
2-Butanone	78-93-3	72.11	0.62		1.83		
Carbon Tetrachloride	56-23-5	153.8	0.04		0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.3	J	1.47		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.16	J	0.75		
Benzene	71-43-2	78.11	0.21	J	0.67		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.05		0.27		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.5		1.88		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Sampling Date : 01/03/18

Field Id Number : SC-SG2-20180103

Analysis Date : 01/17/18

Laboratory Id Number : J1066-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.23		1.56		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	0.31	J	1.35		
o-Xylene	95-47-6	106.2	0.17	J	0.74		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	J	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	1.9		4.2		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	1.1		3.88		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG1-20180103

Laboratory Id Number : J1066-04

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.65	U	3.21		
Chloromethane	74-87-3	50.49	0.16	J	0.33		
Vinyl Chloride	75-01-4	62.5	0.04	U	0.1		
Bromomethane	74-83-9	94.94	0.65	U	2.52		
Chloroethane	75-00-3	64.52	0.65	U	1.72		
Tetrahydrofuran	109-99-9	72.11	0.65	U	1.92		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.65	U	4.54		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.65	U	4.98		
Bromoethene	593-60-2	106.9	0.65	U	2.84		
tert-Butyl alcohol	75-65-0	74.12	4.4		13.3		
Heptane	142-82-5	100.2	0.65	U	2.66		
1,1-Dichloroethene	75-35-4	96.94	0.65	U	2.58		
Acetone	67-64-1	58.08	3.6		8.55		
Carbon Disulfide	75-15-0	76.14	0.23	J	0.72		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.65	U	2.34		
Methylene Chloride	75-09-2	84.94	1.5		5.21		
trans-1,2-Dichloroethene	156-60-5	96.94	0.65	U	2.58		
1,1-Dichloroethane	75-34-3	98.96	0.65	U	2.63		
Cyclohexane	110-82-7	84.16	0.65		2.24		
2-Butanone	78-93-3	72.11	0.42	J	1.24		
Carbon Tetrachloride	56-23-5	153.8	0.04	U	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.65	U	2.58		
Chloroform	67-66-3	119.4	0.65	U	3.17		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	U	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	J	0.47		
Benzene	71-43-2	78.11	0.65	U	2.08		
1,2-Dichloroethane	107-06-2	98.96	0.65	U	2.63		
Trichloroethene	79-01-6	131.4	0.04	U	0.21		
1,2-Dichloropropane	78-87-5	113	0.65	U	3		
Bromodichloromethane	75-27-4	163.8	0.65	U	4.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.65	U	2.66		
Toluene	108-88-3	92.14	0.3	J	1.13		
t-1,3-Dichloropropene	10061-02-6	111	0.65	U	2.95		
cis-1,3-Dichloropropene	10061-01-5	111	0.65	U	2.95		
1,1,2-Trichloroethane	79-00-5	133.4	0.65	U	3.55		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG1-20180103

Laboratory Id Number : J1066-04

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.65	U	5.54		
1,2-Dibromoethane	106-93-4	187.9	0.65	U	5		
Tetrachloroethene	127-18-4	165.8	0.65		4.41		
Chlorobenzene	108-90-7	112.6	0.65	U	2.99		
Ethyl Benzene	100-41-4	106.2	0.65	U	2.82		
m/p-Xylene	179601-23-1	106.2	0.2	J	0.87		
o-Xylene	95-47-6	106.2	0.65	U	2.82		
Styrene	100-42-5	104.1	0.65	U	2.77		
Bromoform	75-25-2	252.8	0.65	U	6.72		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.65	U	4.46		
2-Chlorotoluene	95-49-8	126.6	0.65	U	3.37		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.65	U	3.2		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.65	U	3.2		
1,3-Dichlorobenzene	541-73-1	147	0.65	U	3.91		
1,4-Dichlorobenzene	106-46-7	147	0.65	U	3.91		
1,2-Dichlorobenzene	95-50-1	147	0.65	U	3.91		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.65	U	4.83		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.65	U	6.93		
Naphthalene	91-20-3	128.17	0.65	U	3.41		
1,3-Butadiene	106-99-0	54.09	0.65	U	1.44		
4-Ethyltoluene	622-96-8	120.2	0.65	U	3.2		
Hexane	110-54-3	86.17	0.64	J	2.26		
Allyl Chloride	107-05-1	76.53	0.65	U	2.03		
1,4-Dioxane	123-91-1	88.12	0.65	U	2.34		
Methyl Methacrylate	80-62-6	100.117	0.65	U	2.66		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG4-20180103

Laboratory Id Number : J1066-05

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.5	U	2.47		
Chloromethane	74-87-3	50.49	0.5	U	1.03		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.15	J	0.84		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	1.1		3.33		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	3.4		8.08		
Carbon Disulfide	75-15-0	76.14	0.59		1.84		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.1		3.82		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.57		1.96		
2-Butanone	78-93-3	72.11	0.4	J	1.18		
Carbon Tetrachloride	56-23-5	153.8	0.03		0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.66		2.11		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.09		0.48		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.57		2.15		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG4-20180103

Laboratory Id Number : J1066-05

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	43.2	E	292		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	0.23	J	1		
o-Xylene	95-47-6	106.2	0.13	J	0.56		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.18	J	0.88		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.68		2.4		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG4-20180103DL

Laboratory Id Number : J1066-05DL

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	5	UD	14.8		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
Bromoethene	593-60-2	106.9	5	UD	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	5	UD	20.5		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	5	UD	11.9		
Carbon Disulfide	75-15-0	76.14	5	UD	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	5	UD	17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	5	UD	17.2		
2-Butanone	78-93-3	72.11	5	UD	14.8		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	UD	19.8		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	5	UD	23.4		
Benzene	71-43-2	78.11	5	UD	16.0		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	5	UD	18.8		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG4-20180103DL

Laboratory Id Number : J1066-05DL

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	UD	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	UD	38.4		
Tetrachloroethene	127-18-4	165.8	37.1	D	251		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	5	UD	21.7		
m/p-Xylene	179601-23-1	106.2	10	UD	43.4		
o-Xylene	95-47-6	106.2	5	UD	21.7		
Styrene	100-42-5	104.1	5	UD	21.3		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	UD	34.3		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	UD	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	5	UD	26.2		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	5	UD	17.6		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG5-20180103

Laboratory Id Number : J1066-06

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.12	J	0.59		
Chloromethane	74-87-3	50.49	0.31	J	0.64		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	1.5		4.55		
Heptane	142-82-5	100.2	14.1		57.8		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	5		11.9		
Carbon Disulfide	75-15-0	76.14	1.6		4.98		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.71		2.47		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	3.2		11.0		
2-Butanone	78-93-3	72.11	0.73		2.15		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.94		3		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.19	J	0.78		
Toluene	108-88-3	92.14	1.5		5.65		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Sampling Date : 01/03/18

Field Id Number : SC-SG5-20180103

Analysis Date : 01/18/18

Laboratory Id Number : J1066-06

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.36		2.44		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.12	J	0.52		
m/p-Xylene	179601-23-1	106.2	0.42	J	1.82		
o-Xylene	95-47-6	106.2	0.19	J	0.83		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.16	J	0.79		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	13.8		48.6		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG6-20180103

Laboratory Id Number : J1066-07

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.35	J	1.73		
Chloromethane	74-87-3	50.49	0.32	J	0.66		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.79		2.39		
Heptane	142-82-5	100.2	0.57		2.34		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	5.5		13.1		
Carbon Disulfide	75-15-0	76.14	0.23	J	0.72		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	4.5		15.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.74		2.55		
2-Butanone	78-93-3	72.11	0.44	J	1.3		
Carbon Tetrachloride	56-23-5	153.8	0.05		0.31		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.67		3.27		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	J	0.47		
Benzene	71-43-2	78.11	0.32	J	1.02		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	1.7		6.41		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SG6-20180103

Laboratory Id Number : J1066-07

Sampling Date : 01/03/18

Analysis Date : 01/18/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.09		0.61		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.16	J	0.69		
m/p-Xylene	179601-23-1	106.2	0.66	J	2.87		
o-Xylene	95-47-6	106.2	0.31	J	1.35		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.13	J	0.64		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	2.2		7.75		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SS2-20180103

Laboratory Id Number : J1066-08

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.35	J	1.73		
Chloromethane	74-87-3	50.49	0.38	J	0.78		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.18	J	0.53		
Trichlorofluoromethane	75-69-4	137.4	0.25	J	1.4		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	1.4		5.74		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	5.5		13.1		
Carbon Disulfide	75-15-0	76.14	1.1		3.43		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.3		4.52		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.93		3.2		
2-Butanone	78-93-3	72.11	1.1		3.24		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.2	J	0.98		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.76		3.55		
Benzene	71-43-2	78.11	0.22	J	0.7		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.1		0.54		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	1.3		4.9		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Sampling Date : 01/03/18

Field Id Number : SC-SS2-20180103

Analysis Date : 01/11/18

Laboratory Id Number : J1066-08

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	13.9		94.3		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.18	J	0.78		
m/p-Xylene	179601-23-1	106.2	0.62	J	2.69		
o-Xylene	95-47-6	106.2	0.24	J	1.04		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.16	J	0.79		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	1.1		3.88		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SS1-20180103

Laboratory Id Number : J1066-09

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.27	J	1.34		
Chloromethane	74-87-3	50.49	0.5	U	1.03		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.15	J	0.44		
Trichlorofluoromethane	75-69-4	137.4	0.89		5		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.12	J	0.49		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	2.6		6.18		
Carbon Disulfide	75-15-0	76.14	0.58		1.81		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.1		3.82		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.19	J	0.65		
2-Butanone	78-93-3	72.11	0.78		2.3		
Carbon Tetrachloride	56-23-5	153.8	0.03		0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.13	J	0.63		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.33	J	1.54		
Benzene	71-43-2	78.11	0.13	J	0.42		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.05		0.27		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.46	J	1.73		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SS1-20180103

Laboratory Id Number : J1066-09

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	19.9	E	134		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	0.28	J	1.22		
o-Xylene	95-47-6	106.2	0.17	J	0.74		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.13	J	0.64		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.39	J	1.37		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SS1-20180103DL

Laboratory Id Number : J1066-09DL

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	5	UD	14.8		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
Bromoethene	593-60-2	106.9	5	UD	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	5	UD	20.5		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	4.8	JD	11.4		
Carbon Disulfide	75-15-0	76.14	5	UD	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	5	UD	17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	5	UD	17.2		
2-Butanone	78-93-3	72.11	5	UD	14.8		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	UD	19.8		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	5	UD	23.4		
Benzene	71-43-2	78.11	5	UD	16.0		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	5	UD	18.8		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-SS1-20180103DL

Laboratory Id Number : J1066-09DL

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	UD	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	UD	38.4		
Tetrachloroethene	127-18-4	165.8	17.4	D	117		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	5	UD	21.7		
m/p-Xylene	179601-23-1	106.2	10	UD	43.4		
o-Xylene	95-47-6	106.2	5	UD	21.7		
Styrene	100-42-5	104.1	5	UD	21.3		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	UD	34.3		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	UD	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	5	UD	26.2		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	5	UD	17.6		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-DUPE1-20180103

Laboratory Id Number : J1066-10

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.36	J	1.78		
Chloromethane	74-87-3	50.49	0.1	J	0.21		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.15	J	0.44		
Trichlorofluoromethane	75-69-4	137.4	0.26	J	1.46		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	1.3		3.94		
Heptane	142-82-5	100.2	1.4		5.74		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	4.3		10.2		
Carbon Disulfide	75-15-0	76.14	1.2		3.74		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.9		6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.96		3.3		
2-Butanone	78-93-3	72.11	0.93		2.74		
Carbon Tetrachloride	56-23-5	153.8	0.04		0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.14	J	0.68		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.78		3.64		
Benzene	71-43-2	78.11	0.2	J	0.64		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.08		0.43		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	1.1		4.15		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-DUPE1-20180103

Laboratory Id Number : J1066-10

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	15.4	E	104		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.2	J	0.87		
m/p-Xylene	179601-23-1	106.2	0.68	J	2.95		
o-Xylene	95-47-6	106.2	0.27	J	1.17		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.15	J	0.74		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	1.1		3.88		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-DUPE1-20180103DL

Laboratory Id Number : J1066-10DL

Sampling Date : 01/03/18

Analysis Date : 01/11/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	5	UD	14.8		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
Bromoethene	593-60-2	106.9	5	UD	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	1.2	JD	4.92		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	6.7	D	15.9		
Carbon Disulfide	75-15-0	76.14	1	JD	3.11		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	5	UD	17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	5	UD	17.2		
2-Butanone	78-93-3	72.11	5	UD	14.8		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	UD	19.8		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	0.7	JD	3.27		
Benzene	71-43-2	78.11	5	UD	16.0		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	5	UD	18.8		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		

Project : Work Assignment #37 Former Stamps Cleaners - SC **Sampling Date :** 01/03/18

Field Id Number : SC-DUPE1-20180103DL **Analysis Date :** 01/11/18

Laboratory Id Number : J1066-10DL **Target Analyts :** Air Results

Dibromochloromethane	124-48-1	208.3	5	UD	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	UD	38.4		
Tetrachloroethene	127-18-4	165.8	15.7	D	106		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	5	UD	21.7		
m/p-Xylene	179601-23-1	106.2	10	UD	43.4		
o-Xylene	95-47-6	106.2	5	UD	21.7		
Styrene	100-42-5	104.1	5	UD	21.3		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	UD	34.3		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	UD	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	5	UD	26.2		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	1.2	JD	4.23		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-IA1-20180103

Laboratory Id Number : J1066-11

Sampling Date : 01/03/18

Analysis Date : 01/12/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.32	J	1.58		
Chloromethane	74-87-3	50.49	0.46	J	0.95		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	1.7		5.01		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.12	J	0.49		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	2.8		6.65		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.9		6.6		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.16	J	0.55		
2-Butanone	78-93-3	72.11	1.8		5.31		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.14	J	0.65		
Benzene	71-43-2	78.11	0.37	J	1.18		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	1		3.77		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-IA1-20180103

Laboratory Id Number : J1066-11

Sampling Date : 01/03/18

Analysis Date : 01/12/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.03		0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	0.32	J	1.39		
o-Xylene	95-47-6	106.2	0.13	J	0.56		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.1	J	0.49		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.54		1.9		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-OA-20180103

Laboratory Id Number : J1066-12

Sampling Date : 01/03/18

Analysis Date : 01/12/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.26	J	1.29		
Chloromethane	74-87-3	50.49	0.42	J	0.87		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	0.5	U	1.47		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.5	U	2.05		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	1.6		3.8		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.57		1.98		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.12	J	0.41		
2-Butanone	78-93-3	72.11	0.38	J	1.12		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.28	J	0.89		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	0.11	J	0.41		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-OA-20180103

Laboratory Id Number : J1066-12

Sampling Date : 01/03/18

Analysis Date : 01/12/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.5	U	2.17		
m/p-Xylene	179601-23-1	106.2	1	U	4.34		
o-Xylene	95-47-6	106.2	0.5	U	2.17		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.36	J	1.27		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-IA2-20180103

Laboratory Id Number : J1066-13

Sampling Date : 01/03/18

Analysis Date : 01/16/18

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.48	J	2.37		
Chloromethane	74-87-3	50.49	0.42	J	0.87		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	1		2.95		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.17	J	0.7		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	3.5		8.31		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.95		3.3		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.15	J	0.52		
2-Butanone	78-93-3	72.11	1.2		3.54		
Carbon Tetrachloride	56-23-5	153.8	0.06		0.38		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.5	U	2.34		
Benzene	71-43-2	78.11	0.36	J	1.15		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	7.3		27.5		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Work Assignment #37 Former Stamps Cleaners - SC

Field Id Number : SC-IA2-20180103

Laboratory Id Number : J1066-13

Sampling Date : 01/03/18

Analysis Date : 01/16/18

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.03	U	0.2		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.21	J	0.91		
m/p-Xylene	179601-23-1	106.2	0.74	J	3.21		
o-Xylene	95-47-6	106.2	0.31	J	1.35		
Styrene	100-42-5	104.1	0.21	J	0.89		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.23	J	1.13		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	0.63		2.22		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

CHEMTECH

Method Detection Limit (MDL) Determination

Parameter(s):	Volatile	Matrix:	Air
Analysis Method:	TO-15	Instrument / Column:	MSVOAL / RTX-1, 60m, 0.32mm ID, 1 um df
Prep Method:	TO-15	Analyst:	SAM
MDL Effective Date:	01/12/2017	MDL Expiration Date:	01/11/2018

Replicates	5	6	7	8
t value	3.747	3.365	3.143	2.998

Units: ug/L

Analytes	Replicate Number 1	2	3	4	5	6	7	8	Spike Amount ug/L	t value	Raw MDL PPBV	Calculated MDL PPBV
Dichlorodifluoromethane	0.16000	0.16000	0.17000	0.15000	0.16000	0.17000	0.16000		0.10000	3.14300	**0.0217**	**0.0217**
Chlorodifluoromethane	0.12000	0.13000	0.11000	0.12000	0.12000	0.13000	0.11000		0.10000	3.14300	**0.0257**	**0.0257**
Chloromethane	0.13000	0.12000	0.12000	0.12000	0.13000	0.11000	0.12000		0.10000	3.14300	**0.0217**	**0.0217**
Vinyl Chloride	0.04000	0.04000	0.04000	0.04000	0.03000	0.04000	0.04000		0.03000	3.14300	**0.0119**	**0.0119**
Bromomethane	0.12000	0.11000	0.12000	0.11000	0.12000	0.12000	0.14000		0.10000	3.14300	**0.0314**	**0.0314**
Chloroethane	0.13000	0.12000	0.13000	0.10000	0.13000	0.10000	0.12000		0.10000	3.14300	**0.0423**	**0.0423**
Dichlorotetrafluoroethane	0.12000	0.12000	0.11000	0.12000	0.12000	0.12000	0.12000		0.10000	3.14300	**0.0119**	**0.0119**
Propene	0.14000	0.15000	0.15000	0.15000	0.14000	0.14000	0.15000		0.10000	3.14300	**0.0168**	**0.0168**
Heptane	0.11000	0.11000	0.11000	0.11000	0.11000	0.11000	0.10000		0.10000	3.14300	**0.0119**	**0.0119**
Trichlorofluoromethane	0.11000	0.11000	0.12000	0.12000	0.13000	0.12000	0.12000		0.10000	3.14300	**0.0217**	**0.0217**
1,1,2-Trichlorotrifluoroethane	0.12000	0.12000	0.13000	0.12000	0.13000	0.11000	0.12000		0.10000	3.14300	**0.0217**	**0.0217**
Ethanol	0.41000	0.35000	0.31000	0.32000	0.33000	0.42000	0.32000		0.25000	3.14300	**0.1422**	**0.1422**
Bromoethene	0.11000	0.11000	0.10000	0.12000	0.10000	0.10000	0.09000		0.10000	3.14300	**0.0307**	**0.0307**
Acetone	0.29000	0.30000	0.30000	0.28000	0.30000	0.29000	0.29000		0.10000	3.14300	**0.0238**	**0.0238**
1,3-Butadiene	0.18000	0.18000	0.17000	0.18000	0.20000	0.19000	0.18000		0.10000	3.14300	**0.0299**	**0.0299**
tert-Butyl alcohol	0.11000	0.12000	0.09000	0.09000	0.12000	0.10000	0.09000		0.10000	3.14300	**0.0434**	**0.0434**
1,1-Dichloroethene	0.11000	0.12000	0.12000	0.11000	0.12000	0.11000	0.12000		0.10000	3.14300	**0.0168**	**0.0168**
Isopropyl Alcohol	0.12000	0.12000	0.12000	0.11000	0.14000	0.12000	0.11000		0.10000	3.14300	**0.0314**	**0.0314**
Methylene Chloride	0.16000	0.14000	0.13000	0.16000	0.17000	0.15000	0.16000		0.10000	3.14300	**0.0434**	**0.0434**
Allyl Chloride	0.10000	0.11000	0.12000	0.10000	0.11000	0.11000	0.10000		0.10000	3.14300	**0.0238**	**0.0238**
trans-1,2-Dichloroethene	0.10000	0.13000	0.12000	0.11000	0.12000	0.12000	0.11000		0.10000	3.14300	**0.0307**	**0.0307**
Vinyl Acetate	0.11000	0.11000	0.11000	0.11000	0.11000	0.10000	0.11000		0.10000	3.14300	**0.0119**	**0.0119**
1,1-Dichloroethane	0.11000	0.12000	0.11000	0.12000	0.12000	0.11000	0.12000		0.10000	3.14300	**0.0168**	**0.0168**
Ethyl Acetate	0.11000	0.11000	0.11000	0.11000	0.12000	0.12000	0.11000		0.10000	3.14300	**0.0153**	**0.0153**
Hexane	0.12000	0.12000	0.11000	0.12000	0.12000	0.12000	0.12000		0.10000	3.14300	**0.0119**	**0.0119**
Carbon Disulfide	0.09000	0.09000	0.08000	0.07000	0.08000	0.08000	0.08000		0.10000	3.14300	**0.0217**	**0.0217**
Methyl tert-Butyl Ether	0.11000	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000		0.10000	3.14300	**0.0119**	**0.0119**
Chloroform	0.11000	0.11000	0.12000	0.12000	0.12000	0.11000	0.12000		0.10000	3.14300	**0.0168**	**0.0168**
Replicate ID:	VL029445.D	VL029446.D	VL029447.D	VL029448.D	VL029449.D	VL029450.D	VL029451.D					
Determination Date:	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017					
Preparation Date:	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017					
Replicate ID:	VL029473.D	VL029474.D	VL029475.D	VL029476.D	VL029477.D	VL029478.D	VL029479.D					
Determination Date:	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017					
Preparation Date:	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017					
Replicate ID:	VL029497.D	VL029498.D	VL029499.D	VL029500.D	VL029501.D	VL029502.D	VL029503.D					
Determination Date:	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017					
Preparation Date:	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017					

Comment:- Compound# 13,40 used from Sequence VL011217 and Compound # 5,32,35,38,52,63 used from Sequence VL011917, All other compounds used from VL011617

CHEMTECH

Method Detection Limit (MDL) Determination

Parameter(s):	Volatile	Matrix:	Air
Analysis Method:	TO-15	Instrument / Column:	MSVOAL / RTX-1, 60m, 0.32mm ID, 1 um df
Prep Method:	TO-15	Analyst:	SAM
MDL Effective Date:	01/12/2017	MDL Expiration Date:	01/11/2018

Replicates	5	6	7	8
t value	3.747	3.365	3.143	2.998

	Units: ug/L											
	Replicate Number								Spike Amount	t value	Raw MDL	Calculated MDL
Analytes	1	2	3	4	5	6	7	8	ug/L		PPBV	PPBV
Cyclohexane	0.14000	0.12000	0.13000	0.13000	0.13000	0.13000	0.14000		0.10000	3.14300	**0.0217**	**0.0217**
cis-1,2-Dichloroethene	0.11000	0.11000	0.12000	0.10000	0.11000	0.11000	0.10000		0.10000	3.14300	**0.0217**	**0.0217**
1,1,1-Trichloroethane	0.03000	0.04000	0.04000	0.04000	0.03000	0.04000	0.04000		0.03000	3.14300	**0.0153**	**0.0153**
2-Butanone	0.14000	0.13000	0.13000	0.13000	0.14000	0.13000	0.13000		0.10000	3.14300	**0.0153**	**0.0153**
Carbon Tetrachloride	0.03000	0.03000	0.03000	0.04000	0.03000	0.03000	0.03000		0.03000	3.14300	**0.0119**	**0.0119**
Benzene	0.12000	0.12000	0.12000	0.12000	0.12000	0.13000	0.12000		0.10000	3.14300	**0.0119**	**0.0119**
1,2-Dichloroethane	0.12000	0.12000	0.12000	0.12000	0.12000	0.13000	0.13000		0.10000	3.14300	**0.0153**	**0.0153**
Trichloroethene	0.04000	0.05000	0.03000	0.04000	0.04000	0.04000	0.03000		0.03000	3.14300	**0.0217**	**0.0217**
1,2-Dichloropropane	0.13000	0.12000	0.12000	0.12000	0.13000	0.12000	0.13000		0.10000	3.14300	**0.0168**	**0.0168**
1,4-Dioxane	0.33000	0.36000	0.32000	0.29000	0.34000	0.33000	0.35000		0.25000	3.14300	**0.0713**	**0.0713**
Tetrahydrofuran	0.12000	0.11000	0.11000	0.11000	0.11000	0.11000	0.11000		0.10000	3.14300	**0.0119**	**0.0119**
Bromodichloromethane	0.09000	0.08000	0.08000	0.09000	0.09000	0.08000	0.09000		0.10000	3.14300	**0.0168**	**0.0168**
Methyl Methacrylate	0.10000	0.09000	0.10000	0.09000	0.09000	0.08000	0.09000		0.10000	3.14300	**0.0217**	**0.0217**
2,2,4-Trimethylpentane	0.11000	0.11000	0.11000	0.10000	0.11000	0.11000	0.11000		0.10000	3.14300	**0.0119**	**0.0119**
t-1,3-Dichloropropene	0.08000	0.07000	0.06000	0.07000	0.06000	0.07000	0.06000		0.10000	3.14300	**0.0238**	**0.0238**
cis-1,3-Dichloropropene	0.08000	0.08000	0.08000	0.07000	0.08000	0.07000	0.08000		0.10000	3.14300	**0.0153**	**0.0153**
1,1,2-Trichloroethane	0.12000	0.11000	0.11000	0.11000	0.12000	0.12000	0.12000		0.10000	3.14300	**0.0168**	**0.0168**
Dibromochloromethane	0.07000	0.07000	0.06000	0.06000	0.07000	0.06000	0.06000		0.10000	3.14300	**0.0168**	**0.0168**
Bromoform	0.06000	0.05000	0.06000	0.06000	0.06000	0.05000	0.05000		0.10000	3.14300	**0.0168**	**0.0168**
4-Methyl-2-Pentanone	0.11000	0.11000	0.11000	0.10000	0.11000	0.11000	0.09000		0.10000	3.14300	**0.0247**	**0.0247**
2-Hexanone	0.10000	0.09000	0.09000	0.08000	0.08000	0.09000	0.08000		0.10000	3.14300	**0.0238**	**0.0238**
Tetrachloroethene	0.04000	0.04000	0.04000	0.03000	0.04000	0.04000	0.05000		0.03000	3.14300	**0.0181**	**0.0181**
Toluene	0.14000	0.13000	0.13000	0.12000	0.14000	0.13000	0.13000		0.10000	3.14300	**0.0217**	**0.0217**
1,2-Dibromoethane	0.11000	0.10000	0.10000	0.10000	0.10000	0.09000	0.10000		0.10000	3.14300	**0.0181**	**0.0181**
1,1,1,2-Tetrachloroethane	0.10000	0.10000	0.09000	0.09000	0.09000	0.09000	0.09000		0.10000	3.14300	**0.0153**	**0.0153**
Chlorobenzene	0.13000	0.13000	0.13000	0.13000	0.12000	0.12000	0.13000		0.10000	3.14300	**0.0153**	**0.0153**
Ethyl Benzene	0.12000	0.11000	0.11000	0.11000	0.11000	0.11000	0.11000		0.10000	3.14300	**0.0119**	**0.0119**
m/p-Xylene	0.25000	0.22000	0.22000	0.22000	0.22000	0.21000	0.22000		0.20000	3.14300	**0.0394**	**0.0394**
o-Xylene	0.12000	0.11000	0.12000	0.10000	0.11000	0.12000	0.11000		0.10000	3.14300	**0.0238**	**0.0238**
Styrene	0.10000	0.10000	0.11000	0.11000	0.10000	0.10000	0.10000		0.10000	3.14300	**0.0153**	**0.0153**
Isopropylbenzene	0.12000	0.11000	0.12000	0.11000	0.12000	0.12000	0.11000		0.10000	3.14300	**0.0168**	**0.0168**
1,1,2,2-Tetrachloroethane	0.04000	0.04000	0.04000	0.04000	0.04000	0.03000	0.04000		0.03000	3.14300	**0.0119**	**0.0119**
n-propylbenzene	0.11000	0.12000	0.12000	0.12000	0.11000	0.12000	0.12000		0.10000	3.14300	**0.0153**	**0.0153**
Replicate ID:	VL029445.D	VL029446.D	VL029447.D	VL029448.D	VL029449.D	VL029450.D	VL029451.D					
Determination Date:	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017					
Preparation Date:	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017					
Replicate ID:	VL029473.D	VL029474.D	VL029475.D	VL029476.D	VL029477.D	VL029478.D	VL029479.D					
Determination Date:	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017					
Preparation Date:	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017					
Replicate ID:	VL029497.D	VL029498.D	VL029499.D	VL029500.D	VL029501.D	VL029502.D	VL029503.D					
Determination Date:	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017					
Preparation Date:	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017					

Comment:- Compound# 13,40 used from Sequence VL011217 and Compound # 5,32,35,38,52,63 used from Sequence VL011917, All other compounds used from VL011617

CHEMTECH

Method Detection Limit (MDL) Determination

Parameter(s):	Volatile	Matrix:	Air
Analysis Method:	TO-15	Instrument / Column:	MSVOAL / RTX-1, 60m, 0.32mm ID, 1 um df
Prep Method:	TO-15	Analyst:	SAM
MDL Effective Date:	01/12/2017	MDL Expiration Date:	01/11/2018

Replicates	5	6	7	8
t value	3.747	3.365	3.143	2.998

	Units: ug/L											
	Replicate Number								Spike Amount	t value	**Raw MDL**	**Calculated MDL**
Analytes	1	2	3	4	5	6	7	8	ug/L		**PPBV**	**PPBV**
tert-Butylbenzene	0.11000	0.10000	0.11000	0.11000	0.11000	0.11000	0.11000		0.10000	3.14300	**0.0119**	**0.0119**
Benzyl Chloride	0.07000	0.07000	0.06000	0.07000	0.07000	0.05000	0.05000		0.10000	3.14300	**0.0299**	**0.0299**
sec-Butylbenzene	0.11000	0.11000	0.11000	0.10000	0.11000	0.11000	0.10000		0.10000	3.14300	**0.0153**	**0.0153**
p-Isopropyltoluene	0.11000	0.10000	0.10000	0.10000	0.10000	0.10000	0.10000		0.10000	3.14300	**0.0119**	**0.0119**
n-Butylbenzene	0.12000	0.11000	0.11000	0.11000	0.11000	0.11000	0.10000		0.10000	3.14300	**0.0181**	**0.0181**
2-Chlorotoluene	0.12000	0.11000	0.11000	0.11000	0.11000	0.12000	0.11000		0.10000	3.14300	**0.0153**	**0.0153**
4-Ethyltoluene	0.12000	0.11000	0.11000	0.10000	0.11000	0.11000	0.11000		0.10000	3.14300	**0.0181**	**0.0181**
1,3,5-Trimethylbenzene	0.12000	0.11000	0.10000	0.10000	0.11000	0.10000	0.10000		0.10000	3.14300	**0.0247**	**0.0247**
1,2,4-Trimethylbenzene	0.12000	0.12000	0.12000	0.11000	0.12000	0.12000	0.11000		0.10000	3.14300	**0.0153**	**0.0153**
1,3-Dichlorobenzene	0.12000	0.11000	0.12000	0.12000	0.13000	0.12000	0.11000		0.10000	3.14300	**0.0217**	**0.0217**
1,4-Dichlorobenzene	0.13000	0.11000	0.12000	0.12000	0.12000	0.12000	0.12000		0.10000	3.14300	**0.0181**	**0.0181**
1,2-Dichlorobenzene	0.13000	0.12000	0.12000	0.11000	0.12000	0.12000	0.12000		0.10000	3.14300	**0.0181**	**0.0181**
Hexachloro-1,3-Butadiene	0.14000	0.13000	0.12000	0.12000	0.13000	0.13000	0.12000		0.10000	3.14300	**0.0238**	**0.0238**
Naphthalene	0.13000	0.10000	0.10000	0.10000	0.10000	0.10000	0.09000		0.10000	3.14300	**0.0394**	**0.0394**
Naphthalene,2-methyl-	0.14000	0.09000	0.08000	0.07000	0.08000	0.08000	0.06000		0.10000	3.14300	**0.0809**	**0.0809**
1,2,4-Trichlorobenzene	0.13000	0.11000	0.11000	0.11000	0.11000	0.11000	0.10000		0.10000	3.14300	**0.0283**	**0.0283**
Replicate ID:	VL029445.D	VL029446.D	VL029447.D	VL029448.D	VL029449.D	VL029450.D	VL029451.D					
Determination Date:	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017					
Preparation Date:	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017	1/12/2017					
Replicate ID:	VL029473.D	VL029474.D	VL029475.D	VL029476.D	VL029477.D	VL029478.D	VL029479.D					
Determination Date:	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017					
Preparation Date:	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017	1/16/2017					
Replicate ID:	VL029497.D	VL029498.D	VL029499.D	VL029500.D	VL029501.D	VL029502.D	VL029503.D					
Determination Date:	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017					
Preparation Date:	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017	1/19/2017					

Comment:- Compound# 13,40 used from Sequence VL011217 and Compound # 5,32,35,38,52,63 used from Sequence VL011917 , All other compounds used from VL011617

SAMPLE DATA

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-OA2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031364.D	1		01/12/18 10:03	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.24	1.19	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.47	0.97	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	2.8	6.65		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	9.4	32.7	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.5	1.72	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.43	1.27	J	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.08	0.5		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.23	0.73	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.35	1.32	J	0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-OA2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031364.D	1		01/12/18 10:03	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.13	0.56	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.73	2.57		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.8			65 - 135		108%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1265470		5.91				
540-36-3	1,4-Difluorobenzene	2837880		7.45				
3114-55-4	Chlorobenzene-d5	2642200		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG3-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031366.D	1		01/12/18 11:23	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.14	0.69	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.51	1.05		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.13	0.53	J	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	2.8	6.65		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	2.3	7.99	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.1	0.34	J	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.59	1.74		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.08	0.5		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.24	0.77	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.8	3.01		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG3-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031366.D	1		01/12/18 11:23	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.18	0.78	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.11	0.48	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.25	0.88	J	0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135		106%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1165540		5.91				
540-36-3	1,4-Difluorobenzene	2615980		7.45				
3114-55-4	Chlorobenzene-d5	2609780		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031383.D	1		01/17/18 00:24	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.37	1.83	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.18	0.37	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.19	1.07	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	2.9	8.79	Q	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.86	3.52		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	3.8	9.03	QB	0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.88	2.74		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.67	2.33	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.42	1.45	J	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.62	1.83		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.04	0.25		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.3	1.47	J	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.16	0.75	J	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.21	0.67	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.05	0.27		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.5	1.88		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031383.D	1		01/17/18 00:24	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.23	1.56		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.31	1.35	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.17	0.74	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	UQ	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	1.9	4.2		0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	1.1	3.88		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1184190	5.91					
540-36-3	1,4-Difluorobenzene	2682540	7.45					
3114-55-4	Chlorobenzene-d5	2812280	12.41					

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031400.D	1.3		01/18/18 14:22	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.65	3.21	UQ	0.15	0.64	3.21	ug/m3
74-87-3	Chloromethane	0.16	0.33	J	0.06	0.27	1.34	ug/m3
75-01-4	Vinyl Chloride	0.04	0.1	U	0.05	0.1	0.1	ug/m3
74-83-9	Bromomethane	0.65	2.52	U	0.16	0.5	2.52	ug/m3
75-00-3	Chloroethane	0.65	1.72	U	0.13	0.34	1.72	ug/m3
109-99-9	Tetrahydrofuran	0.65	1.92	U	0.06	0.38	1.92	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.17	0.73	3.65	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.65	4.98	U	0.23	1	4.98	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.65	4.54	U	0.14	0.91	4.54	ug/m3
593-60-2	Bromoethene	0.65	2.84	U	0.17	0.57	2.84	ug/m3
75-65-0	tert-Butyl alcohol	4.4	13.3		0.18	0.39	1.97	ug/m3
142-82-5	Heptane	0.65	2.66	U	0.08	0.53	2.66	ug/m3
75-35-4	1,1-Dichloroethene	0.65	2.58	U	0.08	0.52	2.58	ug/m3
67-64-1	Acetone	3.6	8.55		0.07	0.31	1.54	ug/m3
75-15-0	Carbon Disulfide	0.23	0.72	J	0.09	0.4	2.02	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.65	2.34	U	0.07	0.47	2.34	ug/m3
75-09-2	Methylene Chloride	1.5	5.21	B	0.21	0.45	2.26	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.65	2.58	U	0.16	0.52	2.58	ug/m3
75-34-3	1,1-Dichloroethane	0.65	2.63	U	0.08	0.53	2.63	ug/m3
110-82-7	Cyclohexane	0.65	2.24		0.1	0.45	2.24	ug/m3
78-93-3	2-Butanone	0.42	1.24	J	0.06	0.38	1.92	ug/m3
56-23-5	Carbon Tetrachloride	0.04	0.25	U	0.13	0.25	0.25	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.65	2.58	U	0.12	0.52	2.58	ug/m3
67-66-3	Chloroform	0.65	3.17	U	0.1	0.63	3.17	ug/m3
71-55-6	1,1,1-Trichloroethane	0.04	0.22	U	0.11	0.22	0.22	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	J	0.09	0.61	3.04	ug/m3
71-43-2	Benzene	0.65	2.08	U	0.06	0.42	2.08	ug/m3
107-06-2	1,2-Dichloroethane	0.65	2.63	U	0.08	0.53	2.63	ug/m3
79-01-6	Trichloroethene	0.04	0.21	U	0.16	0.21	0.21	ug/m3
78-87-5	1,2-Dichloropropane	0.65	3	U	0.09	0.6	3	ug/m3
75-27-4	Bromodichloromethane	0.65	4.35	U	0.2	0.87	4.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.65	2.66	U	0.12	0.53	2.66	ug/m3
108-88-3	Toluene	0.3	1.13	J	0.11	0.49	2.45	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.65	2.95	U	0.14	0.59	2.95	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.65	2.95	U	0.09	0.59	2.95	ug/m3
79-00-5	1,1,2-Trichloroethane	0.65	3.55	U	0.11	0.71	3.55	ug/m3
124-48-1	Dibromochloromethane	0.65	5.54	U	0.17	1.11	5.54	ug/m3
106-93-4	1,2-Dibromoethane	0.65	5	U	0.23	1	5	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031400.D	1.3		01/18/18 14:22	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.65	4.41		0.14	0.27	0.27	ug/m3
108-90-7	Chlorobenzene	0.65	2.99	U	0.14	0.6	2.99	ug/m3
100-41-4	Ethyl Benzene	0.65	2.82	U	0.09	0.56	2.82	ug/m3
179601-23-1	m/p-Xylene	0.2	0.87	J	0.22	1.13	5.65	ug/m3
95-47-6	o-Xylene	0.65	2.82	U	0.13	0.56	2.82	ug/m3
100-42-5	Styrene	0.65	2.77	U	0.09	0.55	2.77	ug/m3
75-25-2	Bromoform	0.65	6.72	U	0.21	1.34	6.72	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.65	4.46	U	0.14	0.89	4.46	ug/m3
95-49-8	2-Chlorotoluene	0.65	3.37	U	0.1	0.67	3.37	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.65	3.2	U	0.15	0.64	3.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.65	3.2	U	0.1	0.64	3.2	ug/m3
541-73-1	1,3-Dichlorobenzene	0.65	3.91	U	0.18	0.78	3.91	ug/m3
106-46-7	1,4-Dichlorobenzene	0.65	3.91	U	0.12	0.78	3.91	ug/m3
95-50-1	1,2-Dichlorobenzene	0.65	3.91	U	0.12	0.78	3.91	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.65	4.83	U	0.3	0.97	4.83	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.65	6.93	U	0.32	1.39	6.93	ug/m3
106-99-0	1,3-Butadiene	0.65	1.44	U	0.09	0.29	1.44	ug/m3
91-20-3	Naphthalene	0.65	3.41	UQ	0.26	0.68	3.41	ug/m3
622-96-8	4-Ethyltoluene	0.65	3.2	U	0.1	0.64	3.2	ug/m3
110-54-3	Hexane	0.64	2.26	J	0.07	0.46	2.29	ug/m3
107-05-1	Allyl Chloride	0.65	2.03	U	0.09	0.41	2.03	ug/m3
123-91-1	1,4-Dioxane	0.65	2.34	U	0.32	1.87	2.34	ug/m3
80-62-6	Methyl Methacrylate	0.65	2.66	U	0.12	0.53	2.66	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.8			65 - 135		108%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1082910		5.9				
540-36-3	1,4-Difluorobenzene	2500550		7.44				
3114-55-4	Chlorobenzene-d5	2625120		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG4-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031401.D	1		01/18/18 15:17	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.5	2.47	UQ	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.5	1.03	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.15	0.84	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	1.1	3.33		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	3.4	8.08		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.59	1.84		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1.1	3.82	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.57	1.96		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.4	1.18	J	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.66	2.11		0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.09	0.48		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.57	2.15		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG4-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031401.D	1		01/18/18 15:17	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	43.2	292	E	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.23	1	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.13	0.56	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	UQ	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.68	2.4		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.8			65 - 135		98%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1189940		5.9				
540-36-3	1,4-Difluorobenzene	2803770		7.45				
3114-55-4	Chlorobenzene-d5	2833690		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG4-20180103DL	SDG No.:	J1066
Lab Sample ID:	J1066-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031402.D	10		01/18/18 15:55	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	UDQ	1.09	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	UD	0.45	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.31	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	UD	1.2	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	UD	1.11	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	5	14.8	UD	0.35	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5	28.1	UD	1.24	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	UD	1.69	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	UD	0.84	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	UD	1.36	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	UD	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	5	20.5	UD	0.49	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	UD	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	5	11.9	UD	0.57	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	5	15.6	UD	0.69	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	UD	0.43	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	5	17.4	UD	1.49	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	UD	1.23	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	UD	0.69	4.05	20.2	ug/m3
110-82-7	Cyclohexane	5	17.2	UD	0.76	3.44	17.2	ug/m3
78-93-3	2-Butanone	5	14.8	UD	0.44	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	0.75	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	UD	0.87	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	UD	0.83	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	0.82	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	5	23.4	UD	0.56	4.67	23.4	ug/m3
71-43-2	Benzene	5	16.0	UD	0.38	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	UD	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	UD	1.18	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	UD	0.79	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	UD	1.34	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	UD	1.02	4.1	20.5	ug/m3
108-88-3	Toluene	5	18.8	UD	0.83	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	UD	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	UD	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	UD	0.93	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	UD	1.45	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	UD	1.54	7.69	38.4	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG4-20180103DL	SDG No.:	J1066
Lab Sample ID:	J1066-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031402.D	10		01/18/18 15:55	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	37.1	251	D	1.22	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	UD	0.92	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	5	21.7	UD	0.52	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	10	43.4	UD	1.69	8.69	43.4	ug/m3
95-47-6	o-Xylene	5	21.7	UD	1.04	4.34	21.7	ug/m3
100-42-5	Styrene	5	21.3	UD	0.64	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	UD	1.76	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	UD	0.82	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	UD	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	UD	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5	24.6	UD	0.74	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	UD	1.32	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	UD	1.08	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	UD	1.08	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	UD	2.08	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	UD	2.56	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	UD	0.66	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	UDQ	2.04	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	UD	0.88	4.92	24.6	ug/m3
110-54-3	Hexane	5	17.6	UD	0.42	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	UD	0.75	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	UD	2.56	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	UD	0.9	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1328660		5.9				
540-36-3	1,4-Difluorobenzene	3060630		7.45				
3114-55-4	Chlorobenzene-d5	3094060		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG5-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031403.D	1		01/18/18 16:36	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.12	0.59	JQ	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.31	0.64	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	1.5	4.55		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	14.1	57.8		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	5	11.9		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	1.6	4.98		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.71	2.47	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	3.2	11.0		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.73	2.15		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.07	0.44		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.94	3		0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.19	0.78	J	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	1.5	5.65		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG5-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031403.D	1		01/18/18 16:36	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.36	2.44		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	J	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.42	1.82	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.19	0.83	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.16	0.79	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	UQ	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	13.8	48.6		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1099790		5.9				
540-36-3	1,4-Difluorobenzene	2555320		7.45				
3114-55-4	Chlorobenzene-d5	2749880		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG6-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031405.D	1		01/18/18 17:55	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.35	1.73	JQ	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.32	0.66	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.79	2.39		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.57	2.34		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	5.5	13.1		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.23	0.72	J	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	4.5	15.6	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.74	2.55		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.44	1.3	J	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.05	0.31		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.67	3.27		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	J	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.32	1.02	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	1.7	6.41		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SG6-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031405.D	1		01/18/18 17:55	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.09	0.61		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.16	0.69	J	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.66	2.87	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.31	1.35	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.13	0.64	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	UQ	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	2.2	7.75		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1097170		5.9				
540-36-3	1,4-Difluorobenzene	2594760		7.45				
3114-55-4	Chlorobenzene-d5	2716390		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SS2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031349.D	1		01/11/18 20:20	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.35	1.73	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.38	0.78	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.18	0.53	J	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.25	1.4	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	1.4	5.74		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	5.5	13.1		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	1.1	3.43		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1.3	4.52	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.93	3.2		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	1.1	3.24		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.06	0.38		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.2	0.98	J	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.76	3.55		0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.22	0.7	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.1	0.54		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	1.3	4.9		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SS2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-08	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031349.D	1		01/11/18 20:20	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	13.9	94.3		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.18	0.78	J	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.62	2.69	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.24	1.04	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.16	0.79	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	1.1	3.88		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135		105%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1304500	5.91					
540-36-3	1,4-Difluorobenzene	2998140	7.45					
3114-55-4	Chlorobenzene-d5	2922910	12.4					

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SS1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-09	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031351.D	1		01/11/18 21:39	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.27	1.34	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.5	1.03	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.15	0.44	J	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.89	5		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.12	0.49	J	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	2.6	6.18		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.58	1.81		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1.1	3.82	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.19	0.65	J	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.78	2.3		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.13	0.63	J	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.33	1.54	J	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.13	0.42	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.05	0.27		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.46	1.73	J	0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SS1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-09	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031351.D	1		01/11/18 21:39	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	19.9	134	E	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.28	1.22	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.17	0.74	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.13	0.64	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.39	1.37	J	0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135		105%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1275410		5.91				
540-36-3	1,4-Difluorobenzene	2949870		7.45				
3114-55-4	Chlorobenzene-d5	2705370		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SS1-20180103DL	SDG No.:	J1066
Lab Sample ID:	J1066-09DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031352.D	10		01/11/18 22:18	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	UD	1.09	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	UD	0.45	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.31	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	UD	1.2	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	UD	1.11	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	5	14.8	UD	0.35	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5	28.1	UD	1.24	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	UD	1.69	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	UD	0.84	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	UD	1.36	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	UD	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	5	20.5	UD	0.49	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	UD	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	4.8	11.4	JD	0.57	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	5	15.6	UD	0.69	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	UD	0.43	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	5	17.4	UD	1.49	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	UD	1.23	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	UD	0.69	4.05	20.2	ug/m3
110-82-7	Cyclohexane	5	17.2	UD	0.76	3.44	17.2	ug/m3
78-93-3	2-Butanone	5	14.8	UD	0.44	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	0.75	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	UD	0.87	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	UD	0.83	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	0.82	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	5	23.4	UD	0.56	4.67	23.4	ug/m3
71-43-2	Benzene	5	16.0	UD	0.38	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	UD	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	UD	1.18	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	UD	0.79	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	UD	1.34	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	UD	1.02	4.1	20.5	ug/m3
108-88-3	Toluene	5	18.8	UD	0.83	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	UD	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	UD	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	UD	0.93	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	UD	1.45	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	UD	1.54	7.69	38.4	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-SS1-20180103DL	SDG No.:	J1066
Lab Sample ID:	J1066-09DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031352.D	10		01/11/18 22:18	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	17.4	117	D	1.22	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	UD	0.92	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	5	21.7	UD	0.52	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	10	43.4	UD	1.69	8.69	43.4	ug/m3
95-47-6	o-Xylene	5	21.7	UD	1.04	4.34	21.7	ug/m3
100-42-5	Styrene	5	21.3	UD	0.64	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	UD	1.76	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	UD	0.82	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	UD	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	UD	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5	24.6	UD	0.74	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	UD	1.32	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	UD	1.08	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	UD	1.08	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	UD	2.08	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	UD	2.56	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	UD	0.66	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	UD	2.04	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	UD	0.88	4.92	24.6	ug/m3
110-54-3	Hexane	5	17.6	UD	0.42	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	UD	0.75	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	UD	2.56	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	UD	0.9	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.9			65 - 135		109%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1440690		5.91				
540-36-3	1,4-Difluorobenzene	3323970		7.44				
3114-55-4	Chlorobenzene-d5	3104030		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-DUPE1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-10	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031353.D	1		01/11/18 22:58	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.36	1.78	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.1	0.21	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.15	0.44	J	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.26	1.46	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	1.3	3.94		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	1.4	5.74		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	4.3	10.2		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	1.2	3.74		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1.9	6.6	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.96	3.3		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.93	2.74		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.04	0.25		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.14	0.68	J	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.78	3.64		0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.2	0.64	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.08	0.43		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	1.1	4.15		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-DUPE1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-10	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031353.D	1		01/11/18 22:58	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	15.4	104	E	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.2	0.87	J	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.68	2.95	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.27	1.17	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.15	0.74	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	1.1	3.88		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135		107%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1355410		5.91				
540-36-3	1,4-Difluorobenzene	3033470		7.45				
3114-55-4	Chlorobenzene-d5	2905590		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-DUPE1-20180103DL	SDG No.:	J1066
Lab Sample ID:	J1066-10DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031354.D	10		01/11/18 23:36	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	UD	1.09	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	UD	0.45	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.31	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	UD	1.2	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	UD	1.11	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	5	14.8	UD	0.35	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5	28.1	UD	1.24	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	UD	1.69	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	UD	0.84	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	UD	1.36	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	UD	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	1.2	4.92	JD	0.49	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	UD	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	6.7	15.9	D	0.57	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	1	3.11	JD	0.69	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	UD	0.43	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	5	17.4	UD	1.49	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	UD	1.23	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	UD	0.69	4.05	20.2	ug/m3
110-82-7	Cyclohexane	5	17.2	UD	0.76	3.44	17.2	ug/m3
78-93-3	2-Butanone	5	14.8	UD	0.44	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	0.75	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	UD	0.87	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	UD	0.83	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	0.82	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.7	3.27	JD	0.56	4.67	23.4	ug/m3
71-43-2	Benzene	5	16.0	UD	0.38	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	UD	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	UD	1.18	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	UD	0.79	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	UD	1.34	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	UD	1.02	4.1	20.5	ug/m3
108-88-3	Toluene	5	18.8	UD	0.83	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	UD	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	UD	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	UD	0.93	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	UD	1.45	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	UD	1.54	7.69	38.4	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-DUPE1-20180103DL	SDG No.:	J1066
Lab Sample ID:	J1066-10DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031354.D	10		01/11/18 23:36	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	15.7	106	D	1.22	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	UD	0.92	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	5	21.7	UD	0.52	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	10	43.4	UD	1.69	8.69	43.4	ug/m3
95-47-6	o-Xylene	5	21.7	UD	1.04	4.34	21.7	ug/m3
100-42-5	Styrene	5	21.3	UD	0.64	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	UD	1.76	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	UD	0.82	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	UD	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	UD	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5	24.6	UD	0.74	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	UD	1.32	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	UD	1.08	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	UD	1.08	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	UD	2.08	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	UD	2.56	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	UD	0.66	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	UD	2.04	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	UD	0.88	4.92	24.6	ug/m3
110-54-3	Hexane	1.2	4.23	JD	0.42	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	UD	0.75	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	UD	2.56	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	UD	0.9	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135		107%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1440300		5.91				
540-36-3	1,4-Difluorobenzene	3224770		7.44				
3114-55-4	Chlorobenzene-d5	3178740		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-IA1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-11	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031355.D	1		01/12/18 00:17	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.32	1.58	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.46	0.95	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	1.7	5.01		0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.12	0.49	J	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	2.8	6.65		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1.9	6.6	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.16	0.55	J	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	1.8	5.31		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.07	0.44		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	J	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.37	1.18	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	1	3.77		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-IA1-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-11	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031355.D	1		01/12/18 00:17	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.32	1.39	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.13	0.56	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.54	1.9		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1370370	5.91					
540-36-3	1,4-Difluorobenzene	3016290	7.45					
3114-55-4	Chlorobenzene-d5	2916420	12.41					

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-OA-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-12	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031357.D	1		01/12/18 01:35	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.26	1.29	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.42	0.87	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	1.6	3.8		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.57	1.98	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.12	0.41	J	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.38	1.12	J	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.07	0.44		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.28	0.89	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	J	0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-OA-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-12	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031357.D	1		01/12/18 01:35	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1	4.34	U	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.36	1.27	J	0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135		107%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1357090		5.91				
540-36-3	1,4-Difluorobenzene	2946520		7.45				
3114-55-4	Chlorobenzene-d5	2747520		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-IA2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-13	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031380.D	1		01/16/18 22:20	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.48	2.37	J	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.42	0.87	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	1	2.95		0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.2	1.12	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	UQ	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.17	0.7	J	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	3.5	8.31	QB	0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.95	3.3	B	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.15	0.52	J	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	1.2	3.54		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.06	0.38		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.36	1.15	J	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	7.3	27.5		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	01/03/18
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	01/08/18
Client Sample ID:	SC-IA2-20180103	SDG No.:	J1066
Lab Sample ID:	J1066-13	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031380.D	1		01/16/18 22:20	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.21	0.91	J	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	0.74	3.21	J	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.31	1.35	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.21	0.89	J	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	UQ	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.23	1.13	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.63	2.22		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1260680		5.91				
540-36-3	1,4-Difluorobenzene	2861190		7.45				
3114-55-4	Chlorobenzene-d5	2768480		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

QC SUMMARY

Surrogate Summary

SDG No.: J1066

Client: HDR, Inc.

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
J1066-01	SC-OA2-20180103	1-Bromo-4-Fluorobenzene	10	10.84	108	65	135
J1066-02	SC-SG3-20180103	1-Bromo-4-Fluorobenzene	10	10.61	106	65	135
J1066-03	SC-SG2-20180103	1-Bromo-4-Fluorobenzene	10	10.01	100	65	135
J1066-04	SC-SG1-20180103	1-Bromo-4-Fluorobenzene	10	10.76	108	65	135
J1066-05	SC-SG4-20180103	1-Bromo-4-Fluorobenzene	10	9.77	98	65	135
J1066-05DL	SC-SG4-20180103DL	1-Bromo-4-Fluorobenzene	10	10.35	104	65	135
J1066-06	SC-SG5-20180103	1-Bromo-4-Fluorobenzene	10	10.09	101	65	135
J1066-07	SC-SG6-20180103	1-Bromo-4-Fluorobenzene	10	10.05	101	65	135
J1066-08	SC-SS2-20180103	1-Bromo-4-Fluorobenzene	10	10.47	105	65	135
J1066-09	SC-SS1-20180103	1-Bromo-4-Fluorobenzene	10	10.52	105	65	135
J1066-09DL	SC-SS1-20180103DL	1-Bromo-4-Fluorobenzene	10	10.9	109	65	135
J1066-10	SC-DUPE1-20180103	1-Bromo-4-Fluorobenzene	10	10.71	107	65	135
J1066-10DL	SC-DUPE1-20180103DL	1-Bromo-4-Fluorobenzene	10	10.66	107	65	135
J1066-11	SC-IA1-20180103	1-Bromo-4-Fluorobenzene	10	10.4	104	65	135
J1066-12	SC-OA-20180103	1-Bromo-4-Fluorobenzene	10	10.68	107	65	135
J1066-13	SC-IA2-20180103	1-Bromo-4-Fluorobenzene	10	10.35	104	65	135
J1066-13DUP	SC-IA2-20180103DUP	1-Bromo-4-Fluorobenzene	10	10.01	100	65	135
VL0111ABL01	VL0111ABL01	1-Bromo-4-Fluorobenzene	10	10.81	108	65	135
VL0111ABS01	VL0111ABS01	1-Bromo-4-Fluorobenzene	10	9.9	99	65	135
VL0116ABL01	VL0116ABL01	1-Bromo-4-Fluorobenzene	10	10.45	104	65	135
VL0116ABS01	VL0116ABS01	1-Bromo-4-Fluorobenzene	10	9.3	93	65	135
VL0117ABL01	VL0117ABL01	1-Bromo-4-Fluorobenzene	10	10.58	106	65	135
VL0117ABS01	VL0117ABS01	1-Bromo-4-Fluorobenzene	10	10.49	105	65	135

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: J1066

Client: HDR, Inc.

Analytical Method: SWTO-15 **Datafile :** VL031341.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0111ABS01	Dichlorodifluoromethane	10	8.8	ppbv	88			70	130	
	Chloromethane	10	9.5	ppbv	95			70	130	
	Vinyl Chloride	10	9	ppbv	90			70	130	
	Bromomethane	10	9.3	ppbv	93			70	130	
	Chloroethane	10	9.3	ppbv	93			70	130	
	Tetrahydrofuran	10	9.7	ppbv	97			70	130	
	Trichlorofluoromethane	10	8.9	ppbv	89			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.1	ppbv	91			70	130	
	Dichlorotetrafluoethane	10	9.2	ppbv	92			70	130	
	Bromoethene	10	9.3	ppbv	93			70	130	
	tert-Butyl Alcohol	10	9.2	ppbv	92			70	130	
	Heptane	10	9	ppbv	90			70	130	
	1,1-Dichloroethene	10	9.3	ppbv	93			70	130	
	Acetone	10	7.6	ppbv	76			70	130	
	Carbon disulfide	10	10.2	ppbv	102			70	130	
	Methyl tert-butyl Ether	10	9.4	ppbv	94			70	130	
	Methylene Chloride	10	8.7	ppbv	87			70	130	
	trans-1,2-Dichloroethene	10	9.3	ppbv	93			70	130	
	1,1-Dichloroethane	10	9.3	ppbv	93			70	130	
	Cyclohexane	10	9.1	ppbv	91			70	130	
	2-Butanone	10	9.4	ppbv	94			70	130	
	Carbon Tetrachloride	10	9.5	ppbv	95			70	130	
	cis-1,2-Dichloroethene	10	9.2	ppbv	92			70	130	
	Chloroform	10	8.9	ppbv	89			70	130	
	1,1,1-Trichloroethane	10	9.1	ppbv	91			70	130	
	2,2,4-Trimethylpentane	10	8.9	ppbv	89			70	130	
	Benzene	10	9.1	ppbv	91			70	130	
	1,2-Dichloroethane	10	9.2	ppbv	92			70	130	
	Trichloroethene	10	8.5	ppbv	85			70	130	
	1,2-Dichloropropane	10	9	ppbv	90			70	130	
	Bromodichloromethane	10	9.5	ppbv	95			70	130	
	4-Methyl-2-Pentanone	10	9.4	ppbv	94			70	130	
	Toluene	10	9.1	ppbv	91			70	130	
	t-1,3-Dichloropropene	10	10	ppbv	100			70	130	
	cis-1,3-Dichloropropene	10	9.7	ppbv	97			70	130	
	1,1,2-Trichloroethane	10	8.8	ppbv	88			70	130	
	Dibromochloromethane	10	9.4	ppbv	94			70	130	
	1,2-Dibromoethane	10	9	ppbv	90			70	130	
	Tetrachloroethene	10	8.4	ppbv	84			70	130	
	Chlorobenzene	10	8.3	ppbv	83			70	130	
	Ethyl Benzene	10	8.4	ppbv	84			70	130	
	m/p-Xylene	20	16.3	ppbv	81			70	130	
	o-Xylene	10	8.1	ppbv	81			70	130	
	Styrene	10	8.9	ppbv	89			70	130	
	Bromoform	10	9.5	ppbv	95			70	130	
	1,1,2,2-Tetrachloroethane	10	7.3	ppbv	73			70	130	
	2-Chlorotoluene	10	7.8	ppbv	78			70	130	
	1,3,5-Trimethylbenzene	10	7.8	ppbv	78			70	130	
	1,2,4-Trimethylbenzene	10	7.6	ppbv	76			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: J1066

Client: HDR, Inc.

Analytical Method: SWTO-15 **Datafile :** VL031341.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VL0111ABS01	1,3-Dichlorobenzene	10	7.4	ppbv	74			70	130	
	1,4-Dichlorobenzene	10	7.5	ppbv	75			70	130	
	1,2-Dichlorobenzene	10	7.4	ppbv	74			70	130	
	1,2,4-Trichlorobenzene	10	9.1	ppbv	91			70	130	
	Hexachloro-1,3-butadiene	10	9	ppbv	90			70	130	
	Naphthalene	10	9.9	ppbv	99			70	130	
	1,3-Butadiene	10	9.2	ppbv	92			70	130	
	4-Ethyltoluene	10	8	ppbv	80			70	130	
	Hexane	10	8.9	ppbv	89			70	130	
	Allyl Chloride	10	9.7	ppbv	97			70	130	
	1,4-Dioxane	10	9.5	ppbv	95			70	130	
	Methyl methacrylate	10	9.7	ppbv	97			70	130	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: J1066
Client: HDR, Inc.
Analytical Method: SWTO-15 **Datafile :** VL031378.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0116ABS01	Dichlorodifluoromethane	10	10.1	ppbv	101			70	130	
	Chloromethane	10	8.3	ppbv	83			70	130	
	Vinyl Chloride	10	7.7	ppbv	77			70	130	
	Bromomethane	10	8.5	ppbv	85			70	130	
	Chloroethane	10	8.4	ppbv	84			70	130	
	Tetrahydrofuran	10	7.9	ppbv	79			70	130	
	Trichlorofluoromethane	10	8.7	ppbv	87			70	130	
	1,1,2-Trichlorotrifluoroethane	10	8.5	ppbv	85			70	130	
	Dichlorotetrafluoethane	10	8.5	ppbv	85			70	130	
	Bromoethene	10	8.7	ppbv	87			70	130	
	tert-Butyl Alcohol	10	6.7	ppbv	67		*	70	130	
	Heptane	10	8.3	ppbv	83			70	130	
	1,1-Dichloroethene	10	8.9	ppbv	89			70	130	
	Acetone	10	6.2	ppbv	62		*	70	130	
	Carbon disulfide	10	8.7	ppbv	87			70	130	
	Methyl tert-butyl Ether	10	8.2	ppbv	82			70	130	
	Methylene Chloride	10	7.7	ppbv	77			70	130	
	trans-1,2-Dichloroethene	10	8.6	ppbv	86			70	130	
	1,1-Dichloroethane	10	8.2	ppbv	82			70	130	
	Cyclohexane	10	8.3	ppbv	83			70	130	
	2-Butanone	10	7.2	ppbv	72			70	130	
	Carbon Tetrachloride	10	7.7	ppbv	77			70	130	
	cis-1,2-Dichloroethene	10	8.6	ppbv	86			70	130	
	Chloroform	10	8.2	ppbv	82			70	130	
	1,1,1-Trichloroethane	10	7.8	ppbv	78			70	130	
	2,2,4-Trimethylpentane	10	8.1	ppbv	81			70	130	
	Benzene	10	8.2	ppbv	82			70	130	
	1,2-Dichloroethane	10	8.1	ppbv	81			70	130	
	Trichloroethene	10	7.6	ppbv	76			70	130	
	1,2-Dichloropropane	10	8.3	ppbv	83			70	130	
	Bromodichloromethane	10	8.4	ppbv	84			70	130	
	4-Methyl-2-Pentanone	10	7.5	ppbv	75			70	130	
	Toluene	10	8.6	ppbv	86			70	130	
	t-1,3-Dichloropropene	10	9.3	ppbv	93			70	130	
	cis-1,3-Dichloropropene	10	8.8	ppbv	88			70	130	
	1,1,2-Trichloroethane	10	8.4	ppbv	84			70	130	
	Dibromochloromethane	10	8.5	ppbv	85			70	130	
	1,2-Dibromoethane	10	8.4	ppbv	84			70	130	
	Tetrachloroethene	10	7.7	ppbv	77			70	130	
	Chlorobenzene	10	7.8	ppbv	78			70	130	
	Ethyl Benzene	10	8	ppbv	80			70	130	
	m/p-Xylene	20	15.8	ppbv	79			70	130	
	o-Xylene	10	7.9	ppbv	79			70	130	
	Styrene	10	8.5	ppbv	85			70	130	
	Bromoform	10	8.4	ppbv	84			70	130	
	1,1,2,2-Tetrachloroethane	10	6.5	ppbv	65		*	70	130	
	2-Chlorotoluene	10	8.1	ppbv	81			70	130	
	1,3,5-Trimethylbenzene	10	8.2	ppbv	82			70	130	
	1,2,4-Trimethylbenzene	10	8	ppbv	80			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: J1066

Client: HDR, Inc.

Analytical Method: SWTO-15 **Datafile :** VL031378.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VL0116ABS01	1,3-Dichlorobenzene	10	7.7	ppbv	77			70	130	
	1,4-Dichlorobenzene	10	8.1	ppbv	81			70	130	
	1,2-Dichlorobenzene	10	7.8	ppbv	78			70	130	
	1,2,4-Trichlorobenzene	10	9.7	ppbv	97			70	130	
	Hexachloro-1,3-butadiene	10	7.6	ppbv	76			70	130	
	Naphthalene	10	12	ppbv	120			70	130	
	1,3-Butadiene	10	8.5	ppbv	85			70	130	
	4-Ethyltoluene	10	8.1	ppbv	81			70	130	
	Hexane	10	8.2	ppbv	82			70	130	
	Allyl Chloride	10	8.6	ppbv	86			70	130	
	1,4-Dioxane	10	7.4	ppbv	74			70	130	
	Methyl methacrylate	10	8.4	ppbv	84			70	130	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: J1066

Client: HDR, Inc.

Analytical Method: SWTO-15 **Datafile :** VL031398.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0117ABS01	Dichlorodifluoromethane	10	6.3	ppbv	63		*	70	130	
	Chloromethane	10	8.2	ppbv	82			70	130	
	Vinyl Chloride	10	8.2	ppbv	82			70	130	
	Bromomethane	10	8.8	ppbv	88			70	130	
	Chloroethane	10	8.7	ppbv	87			70	130	
	Tetrahydrofuran	10	8.2	ppbv	82			70	130	
	Trichlorofluoromethane	10	8.8	ppbv	88			70	130	
	1,1,2-Trichlorotrifluoroethane	10	8.8	ppbv	88			70	130	
	Dichlorotetrafluoethane	10	8.1	ppbv	81			70	130	
	Bromoethene	10	9	ppbv	90			70	130	
	tert-Butyl Alcohol	10	8.7	ppbv	87			70	130	
	Heptane	10	8.9	ppbv	89			70	130	
	1,1-Dichloroethene	10	8.9	ppbv	89			70	130	
	Acetone	10	7.2	ppbv	72			70	130	
	Carbon disulfide	10	9.1	ppbv	91			70	130	
	Methyl tert-butyl Ether	10	9.1	ppbv	91			70	130	
	Methylene Chloride	10	7.9	ppbv	79			70	130	
	trans-1,2-Dichloroethene	10	8.9	ppbv	89			70	130	
	1,1-Dichloroethane	10	8.7	ppbv	87			70	130	
	Cyclohexane	10	9	ppbv	90			70	130	
	2-Butanone	10	7.7	ppbv	77			70	130	
	Carbon Tetrachloride	10	8.6	ppbv	86			70	130	
	cis-1,2-Dichloroethene	10	8.8	ppbv	88			70	130	
	Chloroform	10	8.5	ppbv	85			70	130	
	1,1,1-Trichloroethane	10	8.5	ppbv	85			70	130	
	2,2,4-Trimethylpentane	10	8.3	ppbv	83			70	130	
	Benzene	10	8.7	ppbv	87			70	130	
	1,2-Dichloroethane	10	8.6	ppbv	86			70	130	
	Trichloroethene	10	8.4	ppbv	84			70	130	
	1,2-Dichloropropane	10	8.5	ppbv	85			70	130	
	Bromodichloromethane	10	8.5	ppbv	85			70	130	
	4-Methyl-2-Pentanone	10	7.9	ppbv	79			70	130	
	Toluene	10	9	ppbv	90			70	130	
	t-1,3-Dichloropropene	10	9.9	ppbv	99			70	130	
	cis-1,3-Dichloropropene	10	9.3	ppbv	93			70	130	
	1,1,2-Trichloroethane	10	8.6	ppbv	86			70	130	
	Dibromochloromethane	10	8.8	ppbv	88			70	130	
	1,2-Dibromoethane	10	8.7	ppbv	87			70	130	
	Tetrachloroethene	10	8.5	ppbv	85			70	130	
	Chlorobenzene	10	8.7	ppbv	87			70	130	
	Ethyl Benzene	10	9.1	ppbv	91			70	130	
	m/p-Xylene	20	18.1	ppbv	91			70	130	
	o-Xylene	10	8.9	ppbv	89			70	130	
	Styrene	10	10.2	ppbv	102			70	130	
	Bromoform	10	8.7	ppbv	87			70	130	
	1,1,2,2-Tetrachloroethane	10	7.7	ppbv	77			70	130	
	2-Chlorotoluene	10	8.8	ppbv	88			70	130	
	1,3,5-Trimethylbenzene	10	9.2	ppbv	92			70	130	
	1,2,4-Trimethylbenzene	10	9	ppbv	90			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: J1066

Client: HDR, Inc.

Analytical Method: SWTO-15 **Datafile :** VL031398.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0117ABS01	1,3-Dichlorobenzene	10	8.4	ppbv	84			70	130	
	1,4-Dichlorobenzene	10	8.6	ppbv	86			70	130	
	1,2-Dichlorobenzene	10	8.1	ppbv	81			70	130	
	1,2,4-Trichlorobenzene	10	11.9	ppbv	119			70	130	
	Hexachloro-1,3-butadiene	10	7.9	ppbv	79			70	130	
	Naphthalene	10	14	ppbv	140		*	70	130	
	1,3-Butadiene	10	9.3	ppbv	93			70	130	
	4-Ethyltoluene	10	9.1	ppbv	91			70	130	
	Hexane	10	8.6	ppbv	86			70	130	
	Allyl Chloride	10	9.2	ppbv	92			70	130	
	1,4-Dioxane	10	7.3	ppbv	73			70	130	
	Methyl methacrylate	10	8.9	ppbv	89			70	130	

Duplicate Sample Summary

Lab Sample Id :	J1066-13DUP		J1066-13	
Client Id :	SC-IA2-20180103DUP		SC-IA2-20180103	
DF :	1		1	
Datafile :	VL031381.D		VL031380.D	
Anal Date & Time :	01/16/2018	23:02	01/16/2018	22:20

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0.22	0.23	4.4
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	1.2	1.2	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	3.5	3.5	0
Allyl Chloride	0	0	0
Benzene	0.37	0.36	2.7
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0

Duplicate Sample Summary

Lab Sample Id :	J1066-13DUP		J1066-13	
Client Id :	SC-IA2-20180103DUP		SC-IA2-20180103	
DF :	1		1	
Datafile :	VL031381.D		VL031380.D	
Anal Date & Time :	01/16/2018	23:02	01/16/2018	22:20

Parameter	Result	Result	RPD
Carbon Tetrachloride	0.07	0.06	15.4
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.42	0.42	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0.18	0.15	18.2
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.5	0.48	4.1
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.22	0.21	4.7
Heptane	0.19	0.17	11.1
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.64	0.63	1.6
m/p-Xylene	0.76	0.74	2.7
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.9	0.95	5.4
Naphthalene	0	0	0
o-Xylene	0.31	0.31	0
Styrene	0.22	0.21	4.7
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	1	1	0
Toluene	7.1	7.3	2.8
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.2	0.2	0
Vinyl Chloride	0	0	0

Duplicate Sample Summary

Lab Sample Id :	J1066-13DUP		J1066-13	
Client Id :	SC-IA2-20180103DUP		SC-IA2-20180103	
DF :	1		1	
Datafile :	VL031381.D		VL031380.D	
Anal Date & Time :	01/16/2018	23:02	01/16/2018	22:20

Parameter	Result	Result	RPD

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0111ABL01

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031340.D Lab Sample ID: VL0111ABL01

Date Analyzed: 01/11/2018 Time Analyzed: 14:20

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0111ABS01	VL0111ABS01	VL031341.D	01/11/2018
SC-SS2-20180103	J1066-08	VL031349.D	01/11/2018
SC-SS1-20180103	J1066-09	VL031351.D	01/11/2018
SC-SS1-20180103DL	J1066-09DL	VL031352.D	01/11/2018
SC-DUPE1-20180103	J1066-10	VL031353.D	01/11/2018
SC-DUPE1-20180103DL	J1066-10DL	VL031354.D	01/11/2018
SC-IA1-20180103	J1066-11	VL031355.D	01/12/2018
SC-OA-20180103	J1066-12	VL031357.D	01/12/2018
SC-OA2-20180103	J1066-01	VL031364.D	01/12/2018
SC-SG3-20180103	J1066-02	VL031366.D	01/12/2018

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0116ABL01

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031377.D Lab Sample ID: VL0116ABL01

Date Analyzed: 01/16/2018 Time Analyzed: 20:26

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0116ABS01	VL0116ABS01	VL031378.D	01/16/2018
SC-IA2-20180103	J1066-13	VL031380.D	01/16/2018
SC-IA2-20180103DUP	J1066-13DUP	VL031381.D	01/16/2018
SC-SG2-20180103	J1066-03	VL031383.D	01/17/2018

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0117ABL01

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031397.D Lab Sample ID: VL0117ABL01

Date Analyzed: 01/18/2018 Time Analyzed: 12:08

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0117ABS01	VL0117ABS01	VL031398.D	01/18/2018
SC-SG1-20180103	J1066-04	VL031400.D	01/18/2018
SC-SG4-20180103	J1066-05	VL031401.D	01/18/2018
SC-SG4-20180103DL	J1066-05DL	VL031402.D	01/18/2018
SC-SG5-20180103	J1066-06	VL031403.D	01/18/2018
SC-SG6-20180103	J1066-07	VL031405.D	01/18/2018

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031315.D BFB Injection Date: 01/02/2018

Instrument ID: MSVOA_L BFB Injection Time: 15:05

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.5
75	30.0 - 66.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1.2) 1
174	50.0 - 120.0% of mass 95	61
175	4.0 - 9.0% of mass 174	4.5 (7.5) 1
176	93.0 - 101.0% of mass 174	58.6 (96) 1
177	5.0 - 9.0% of mass 176	3.9 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL031316.D	01/02/2018	15:54
VSTDICC002	VSTDICC002	VL031317.D	01/02/2018	16:34
VSTDICC001	VSTDICC001	VL031318.D	01/02/2018	17:12
VSTDICC0.5	VSTDICC0.5	VL031319.D	01/02/2018	17:49
VSTDICC0.1	VSTDICC0.1	VL031320.D	01/02/2018	18:26
VSTDICC0.03	VSTDICC0.03	VL031321.D	01/02/2018	19:03
VSTDICC015	VSTDICC015	VL031322.D	01/02/2018	19:45

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031338.D BFB Injection Date: 01/11/2018

Instrument ID: MSVOA_L BFB Injection Time: 12:05

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.1
75	30.0 - 66.0% of mass 95	57
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	60.8
175	4.0 - 9.0% of mass 174	4.6 (7.5) 1
176	93.0 - 101.0% of mass 174	59.1 (97.1) 1
177	5.0 - 9.0% of mass 176	3.8 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL031339.D	01/11/2018	12:44
VL0111ABL01	VL0111ABL01	VL031340.D	01/11/2018	14:20
VL0111ABS01	VL0111ABS01	VL031341.D	01/11/2018	14:58
SC-SS2-20180103	J1066-08	VL031349.D	01/11/2018	20:20
SC-SS1-20180103	J1066-09	VL031351.D	01/11/2018	21:39
SC-SS1-20180103DL	J1066-09DL	VL031352.D	01/11/2018	22:18
SC-DUPE1-20180103	J1066-10	VL031353.D	01/11/2018	22:58
SC-DUPE1-20180103DL	J1066-10DL	VL031354.D	01/11/2018	23:36
SC-IA1-20180103	J1066-11	VL031355.D	01/12/2018	00:17
SC-OA-20180103	J1066-12	VL031357.D	01/12/2018	01:35
SC-OA2-20180103	J1066-01	VL031364.D	01/12/2018	10:03
SC-SG3-20180103	J1066-02	VL031366.D	01/12/2018	11:23

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031368.D BFB Injection Date: 01/16/2018

Instrument ID: MSVOA_L BFB Injection Time: 11:22

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.4
75	30.0 - 66.0% of mass 95	58.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	61.6
175	4.0 - 9.0% of mass 174	4.5 (7.3) 1
176	93.0 - 101.0% of mass 174	59 (95.7) 1
177	5.0 - 9.0% of mass 176	3.8 (6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL031369.D	01/16/2018	12:10
VSTDICC002	VSTDICC002	VL031370.D	01/16/2018	13:06
VSTDICC001	VSTDICC001	VL031371.D	01/16/2018	13:43
VSTDICC0.5	VSTDICC0.5	VL031372.D	01/16/2018	14:20
VSTDICC0.1	VSTDICC0.1	VL031373.D	01/16/2018	14:57
VSTDICC00.03	VSTDICC00.03	VL031374.D	01/16/2018	15:33
VSTDICC015	VSTDICC015	VL031375.D	01/16/2018	16:14
VL0116ABL01	VL0116ABL01	VL031377.D	01/16/2018	20:26
VL0116ABS01	VL0116ABS01	VL031378.D	01/16/2018	21:04
SC-IA2-20180103	J1066-13	VL031380.D	01/16/2018	22:20
SC-IA2-20180103DUP	J1066-13DUP	VL031381.D	01/16/2018	23:02
SC-SG2-20180103	J1066-03	VL031383.D	01/17/2018	00:24

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031388.D BFB Injection Date: 01/18/2018

Instrument ID: MSVOA_L BFB Injection Time: 00:42

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.9
75	30.0 - 66.0% of mass 95	61
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	61.1
175	4.0 - 9.0% of mass 174	4.6 (7.5) 1
176	93.0 - 101.0% of mass 174	58.6 (96) 1
177	5.0 - 9.0% of mass 176	3.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL031389.D	01/18/2018	01:58
VSTDICC002	VSTDICC002	VL031390.D	01/18/2018	02:39
VSTDICC001	VSTDICC001	VL031391.D	01/18/2018	03:16
VSTDICC0.5	VSTDICC0.5	VL031392.D	01/18/2018	03:52
VSTDICC0.1	VSTDICC0.1	VL031393.D	01/18/2018	04:29
VSTDICC0.03	VSTDICC0.03	VL031394.D	01/18/2018	05:05
VSTDICC015	VSTDICC015	VL031395.D	01/18/2018	05:46
VL0117ABL01	VL0117ABL01	VL031397.D	01/18/2018	12:08
VL0117ABS01	VL0117ABS01	VL031398.D	01/18/2018	12:46
SC-SG1-20180103	J1066-04	VL031400.D	01/18/2018	14:22
SC-SG4-20180103	J1066-05	VL031401.D	01/18/2018	15:17
SC-SG4-20180103DL	J1066-05DL	VL031402.D	01/18/2018	15:55
SC-SG5-20180103	J1066-06	VL031403.D	01/18/2018	16:36
SC-SG6-20180103	J1066-07	VL031405.D	01/18/2018	17:55

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031339.D Date Analyzed: 01/11/2018

Instrument ID: MSVOA_L Time Analyzed: 12:44

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1359290	5.91	3300600	7.46	3279550	12.41
UPPER LIMIT	1903010	6.24	4620840	7.79	4591370	12.74
LOWER LIMIT	815575	5.58	1980360	7.13	1967730	12.08
EPA SAMPLE NO.						
SC-OA2-20180103	1265472	5.91	2837876	7.45	2642197	12.41
SC-SG3-20180103	1165539	5.91	2615984	7.45	2609784	12.41
SC-SS2-20180103	1304501	5.91	2998144	7.45	2922908	12.40
SC-SS1-20180103	1275413	5.91	2949871	7.45	2705368	12.41
SC-SS1-20180103DL	1440694	5.91	3323966	7.44	3104026	12.41
SC-DUPE1-20180103	1355405	5.91	3033471	7.45	2905594	12.41
SC-DUPE1-20180103DL	1440304	5.91	3224773	7.44	3178740	12.41
SC-IA1-20180103	1370373	5.91	3016287	7.45	2916421	12.41
SC-OA-20180103	1357085	5.91	2946520	7.45	2747515	12.41
VL0111ABL01	1530048	5.91	3488527	7.44	3446437	12.41
VL0111ABS01	1420067	5.91	3419020	7.45	3685897	12.41

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031369.D Date Analyzed: 01/16/2018

Instrument ID: MSVOA_L Time Analyzed: 12:10

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1145010	5.91	2836450	7.45	3077460	12.41
UPPER LIMIT	1603010	6.24	3971020	7.78	4308450	12.74
LOWER LIMIT	687005	5.58	1701870	7.12	1846480	12.08
EPA SAMPLE NO.						
SC-SG2-20180103	1184191	5.91	2682541	7.45	2812279	12.41
SC-IA2-20180103	1260680	5.91	2861194	7.45	2768476	12.41
SC-IA2-20180103DUP	1285853	5.91	2904350	7.45	2842367	12.41
VL0116ABL01	1282113	5.91	2815213	7.45	2860407	12.41
VL0116ABS01	1243645	5.91	2904390	7.45	3246652	12.41

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG NO.: J1066

Lab File ID: VL031389.D Date Analyzed: 01/18/2018

Instrument ID: MSVOA_L Time Analyzed: 01:58

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1339770	5.91	3057630	7.45	3386600	12.41
UPPER LIMIT	1875680	6.24	4280680	7.78	4741250	12.74
LOWER LIMIT	803862	5.58	1834580	7.12	2031960	12.08
EPA SAMPLE NO.						
SC-SG1-20180103	1082910	5.90	2500552	7.44	2625119	12.41
SC-SG4-20180103	1189942	5.90	2803769	7.45	2833691	12.41
SC-SG4-20180103DL	1328664	5.90	3060627	7.45	3094057	12.41
SC-SG5-20180103	1099785	5.90	2555323	7.45	2749883	12.41
SC-SG6-20180103	1097166	5.90	2594755	7.45	2716393	12.41
VL0117ABL01	1375564	5.91	3094397	7.45	2988896	12.41
VL0117ABS01	1270578	5.91	3019018	7.45	3188151	12.41

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
AREA LOWER LIMIT = -40% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0111ABL01	SDG No.:	J1066
Lab Sample ID:	VL0111ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031340.D	1		01/11/18 14:20	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.5	2.47	U	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.5	1.03	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.5	2.81	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.5	1.19	U	0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.18	0.63	J	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.5	1.72	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.5	1.47	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.5	1.6	U	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.5	1.88	U	0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0111ABL01	SDG No.:	J1066
Lab Sample ID:	VL0111ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031340.D	1		01/11/18 14:20	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1	4.34	U	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.5	1.76	U	0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.8			65 - 135		108%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1530050		5.91				
540-36-3	1,4-Difluorobenzene	3488530		7.44				
3114-55-4	Chlorobenzene-d5	3446440		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0116ABL01	SDG No.:	J1066
Lab Sample ID:	VL0116ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031377.D	1		01/16/18 20:26	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.5	2.47	U	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.5	1.03	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.5	2.81	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.26	0.62	J	0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.22	0.76	J	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.5	1.72	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.5	1.47	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.5	1.6	U	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.5	1.88	U	0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0116ABL01	SDG No.:	J1066
Lab Sample ID:	VL0116ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031377.D	1		01/16/18 20:26	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1	4.34	U	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.5	1.76	U	0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1282110		5.91				
540-36-3	1,4-Difluorobenzene	2815210		7.45				
3114-55-4	Chlorobenzene-d5	2860410		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0117ABL01	SDG No.:	J1066
Lab Sample ID:	VL0117ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031397.D	1		01/18/18 12:08	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.5	2.47	U	0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.5	1.03	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.5	2.81	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.5	1.19	U	0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.14	0.49	J	0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.5	1.72	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.5	1.47	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.05	0.47	2.34	ug/m3
71-43-2	Benzene	0.5	1.6	U	0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.5	1.88	U	0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0117ABL01	SDG No.:	J1066
Lab Sample ID:	VL0117ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031397.D	1		01/18/18 12:08	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1	4.34	U	0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.5	1.76	U	0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135		106%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1375560		5.91				
540-36-3	1,4-Difluorobenzene	3094400		7.45				
3114-55-4	Chlorobenzene-d5	2988900		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0111ABS01	SDG No.:	J1066
Lab Sample ID:	VL0111ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031341.D	1		01/11/18 14:58	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	8.8	43.5		0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	9.5	19.6		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9	23.0		0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	9.3	36.1		0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	9.3	24.5		0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.7	28.6		0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.9	50.0		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.1	69.8		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.2	64.3		0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	9.3	40.7		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	9.2	27.9		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	9	36.9		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.3	36.9		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	7.6	18.0		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	10.2	31.8		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.4	33.9		0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	8.7	30.2		0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.3	36.9		0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.3	37.6		0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	9.1	31.3		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	9.4	27.7		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.5	59.8		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.2	36.5		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	8.9	43.5		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.1	49.6		0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	8.9	41.6		0.05	0.47	2.34	ug/m3
71-43-2	Benzene	9.1	29.1		0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	9.2	37.2		0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	8.5	45.7		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9	41.6		0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	9.5	63.6		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.4	38.5		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	9.1	34.3		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	10	45.4		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.7	44.0		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	8.8	48.0		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	9.4	80.1		0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9	69.2		0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0111ABS01	SDG No.:	J1066
Lab Sample ID:	VL0111ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031341.D	1		01/11/18 14:58	VL011118

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.4	57.0		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	8.3	38.2		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	8.4	36.5		0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	16.3	70.8		0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	8.1	35.2		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	8.9	37.9		0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	9.5	98.2		0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	7.3	50.1		0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	7.8	40.4		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.8	38.4		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.6	37.4		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	7.4	44.5		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	7.5	45.1		0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	7.4	44.5		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.1	67.6		0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9	96		0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	9.2	20.4		0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	9.9	51.9		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	8	39.3		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	8.9	31.4		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	9.7	30.4		0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	9.5	34.2		0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	9.7	39.7		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.9			65 - 135		99%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1420070		5.91				
540-36-3	1,4-Difluorobenzene	3419020		7.45				
3114-55-4	Chlorobenzene-d5	3685900		12.41				

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0116ABS01	SDG No.:	J1066
Lab Sample ID:	VL0116ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031378.D	1		01/16/18 21:04	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	10.1	49.9		0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	8.3	17.1		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	7.7	19.7		0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	8.5	33.0		0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	8.4	22.2		0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	7.9	23.3		0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.7	48.9		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	8.5	65.2		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.5	59.4		0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	8.7	38.0		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	6.7	20.3		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	8.3	34.0		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.9	35.3		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	6.2	14.7		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	8.7	27.1		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.2	29.6		0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	7.7	26.8		0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.6	34.1		0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	8.2	33.2		0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	8.3	28.6		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	7.2	21.2		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	7.7	48.4		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.6	34.1		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	8.2	40.0		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	7.8	42.6		0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	8.1	37.8		0.05	0.47	2.34	ug/m3
71-43-2	Benzene	8.2	26.2		0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	8.1	32.8		0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	7.6	40.8		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	8.3	38.4		0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	8.4	56.3		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	7.5	30.7		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	8.6	32.4		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.3	42.2		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	8.8	40.0		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	8.4	45.8		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	8.5	72.4		0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	8.4	64.6		0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0116ABS01	SDG No.:	J1066
Lab Sample ID:	VL0116ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031378.D	1		01/16/18 21:04	VL011618

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	7.7	52.2		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	7.8	35.9		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	8	34.8		0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	15.8	68.6		0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	7.9	34.3		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	8.5	36.2		0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	8.4	86.8		0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	6.5	44.6		0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	8.1	41.9		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	8.2	40.3		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	8	39.3		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	7.7	46.3		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	8.1	48.7		0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	7.8	46.9		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.7	72.0		0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	7.6	81.1		0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	8.5	18.8		0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	12	62.9		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	8.1	39.8		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	8.2	28.9		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	8.6	26.9		0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	7.4	26.7		0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	8.4	34.4		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.3			65 - 135		93%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1243650	5.91					
540-36-3	1,4-Difluorobenzene	2904390	7.45					
3114-55-4	Chlorobenzene-d5	3246650	12.41					

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0117ABS01	SDG No.:	J1066
Lab Sample ID:	VL0117ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031398.D	1		01/18/18 12:46	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	6.3	31.2		0.1	0.49	2.47	ug/m3
74-87-3	Chloromethane	8.2	16.9		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.2	21.0		0.03	0.08	0.08	ug/m3
74-83-9	Bromomethane	8.8	34.2		0.12	0.39	1.94	ug/m3
75-00-3	Chloroethane	8.7	23.0		0.11	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	8.2	24.2		0.03	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.8	49.4		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	8.8	67.4		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.1	56.6		0.07	0.7	3.49	ug/m3
593-60-2	Bromoethene	9	39.4		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	8.7	26.4		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	8.9	36.5		0.04	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.9	35.3		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	7.2	17.1		0.05	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	9.1	28.3		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.1	32.8		0.04	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	7.9	27.4		0.14	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.9	35.3		0.12	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	8.7	35.2		0.08	0.4	2.02	ug/m3
110-82-7	Cyclohexane	9	31.0		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	7.7	22.7		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	8.6	54.1		0.06	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.8	34.9		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	8.5	41.5		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	8.5	46.4		0.11	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	8.3	38.8		0.05	0.47	2.34	ug/m3
71-43-2	Benzene	8.7	27.8		0.03	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	8.6	34.8		0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	8.4	45.1		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	8.5	39.3		0.09	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	8.5	56.9		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	7.9	32.4		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	9	33.9		0.08	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.9	44.9		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	9.3	42.2		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	8.6	46.9		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	8.8	75.0		0.17	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	8.7	66.9		0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	HDR, Inc.	Date Collected:	
Project:	Work Assignment #37 Former Stamps Cleaners - SC	Date Received:	
Client Sample ID:	VL0117ABS01	SDG No.:	J1066
Lab Sample ID:	VL0117ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL031398.D	1		01/18/18 12:46	VL011718

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.5	57.6		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	8.7	40.1		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	9.1	39.5		0.04	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	18.1	78.6		0.17	0.87	4.34	ug/m3
95-47-6	o-Xylene	8.9	38.7		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	10.2	43.4		0.09	0.43	2.13	ug/m3
75-25-2	Bromoform	8.7	90.0		0.21	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	7.7	52.9		0.07	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	8.8	45.6		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.2	45.2		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9	44.2		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	8.4	50.5		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	8.6	51.7		0.12	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	8.1	48.7		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	11.9	88.3		0.22	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	7.9	84.3		0.21	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	9.3	20.6		0.07	0.22	1.11	ug/m3
91-20-3	Naphthalene	14	73.4		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	9.1	44.7		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	8.6	30.3		0.04	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	9.2	28.8		0.06	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	7.3	26.3		0.25	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	8.9	36.4		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135		105%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1270580	5.91					
540-36-3	1,4-Difluorobenzene	3019020	7.45					
3114-55-4	Chlorobenzene-d5	3188150	12.41					

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CALIBRATION SUMMARY

Response Factor Report Instrumen

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method File : VL010218AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 03 02:24:36 2018
Last Update : Wed Jan 03 02:24:36 2018
Response Via : Initial Calibration

Calibration Files
0.03=VL031321.D 0.1 =VL031320.D 0.5 =VL031319.D 1 =VL031318.D 2 =VL031317.D 10 =VL031316.D 15 =VL031322.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...		2.040	2.097	1.179	0.831	1.228	1.475		38.20
3)		Chlorodifluoro...		1.715	1.532	1.518	1.345	1.120	1.446		15.52
4)		Chloromethane		0.771	0.675	0.716	0.633	0.526	0.664		13.94
5)	T	Vinyl Chloride	0.829	0.596	0.760	0.684	0.699	0.629	0.533	0.676	14.80
6)	T	Bromomethane		0.482	0.449	0.469	0.422	0.363	0.437		10.76
7)		Chloroethane		0.290	0.268	0.266	0.249	0.216	0.258		10.68
8)	T	Dichlorotetraf...		2.028	1.823	1.637	1.309	1.286	1.616		19.95
9)	T	Propene		0.687	0.630	0.620	0.581	0.464	0.596		13.96
10)	T	Heptane		1.885	1.871	1.840	1.707	1.351	1.731		12.92
11)	T	Trichlorofluor...		2.176	1.962	1.928	1.711	1.547	1.865		13.00
12)	T	1,1,2-Trichlor...		1.349	1.215	1.211	1.119	0.988	1.176		11.34
13)		Ethanol		0.218	0.179	0.194	0.146	0.115	0.170		23.69
14)	T	Bromoethene		0.581	0.533	0.525	0.491	0.434	0.513		10.65
15)	T	Acetone		2.288	1.783	1.634	1.251	1.107	1.613		28.95
16)	T	1,3-Butadiene		0.683	0.692	0.630	0.584	0.505	0.619		12.49
17)		tert-Butyl alc...		0.810	0.719	0.696	0.716	0.562	0.700		12.75
18)	T	1,1-Dichloroet...		0.595	0.539	0.547	0.519	0.462	0.532		9.04
19)	T	Isopropyl Alcohol		0.986	0.902	0.913	0.856	0.732	0.878		10.70
20)	T	Methylene Chlo...		0.626	0.561	0.541	0.486	0.426	0.528		14.38
21)	T	Allyl Chloride		0.873	0.841	0.863	0.857	0.744	0.835		6.28
22)	T	trans-1,2-Dich...		0.637	0.596	0.602	0.577	0.500	0.582		8.74
23)	T	Vinyl Acetate		2.093	2.101	2.053	1.971	1.552	1.954		11.80
24)	T	1,1-Dichloroet...		1.872	1.730	1.713	1.597	1.272	1.637		13.79
25)	T	Ethyl Acetate		3.001	2.932	2.797	2.653	2.091	2.695		13.46
26)	T	Hexane		1.351	1.361	1.309	1.240	0.973	1.247		12.83
27)	T	Carbon Disulfide		1.383	1.384	1.424	1.445	1.261	1.379		5.16
28)	T	Methyl tert-Bu...		1.597	1.640	1.630	1.608	1.242	1.543		10.97
29)	T	Chloroform		2.263	2.142	2.040	1.955	1.580	1.996		13.01
30)	T	Cyclohexane		1.089	1.053	1.104	1.050	0.842	1.028		10.36
31)	T	cis-1,2-Dichlo...		1.331	1.265	1.282	1.211	0.991	1.216		10.92
32)	T	1,1,1-Trichlor...	2.295	1.841	2.104	2.047	2.018	1.976	1.608	1.984	10.85
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone		0.818	0.843	0.811	0.741	0.571	0.757		14.63
35)	T	Carbon Tetrach...	0.965	0.786	0.918	0.891	0.876	0.839	0.684	0.851	10.95
36)	T	Benzene		1.190	1.164	1.144	1.043	0.801	1.068		14.93
37)	T	1,2-Dichloroet...		0.768	0.747	0.703	0.662	0.538	0.683		13.28

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method File : VL010218AIR.M

38)	T	Trichloroethene	0.564	0.400	0.469	0.474	0.439	0.402	0.310	0.437	18.03
39)	T	1,2-Dichloropr...			0.425	0.429	0.402	0.385	0.296	0.387	13.99
40)	T	1,4-Dioxane			0.197	0.180	0.184	0.163	0.122	0.169	17.17
41)	T	Tetrahydrofuran			0.391	0.416	0.409	0.403	0.323	0.388	9.68
42)	T	Bromodichlorom...			0.939	0.931	0.886	0.832	0.651	0.848	13.94
43)		Methyl Methacr...			0.386	0.405	0.396	0.386	0.304	0.376	10.86
44)	T	2,2,4-Trimethy...			1.965	1.986	1.852	1.634	1.244	1.736	17.77
45)	T	t-1,3-Dichloro...			0.462	0.543	0.544	0.569	0.462	0.516	9.82
46)	T	cis-1,3-Dichlo...			0.642	0.705	0.688	0.689	0.539	0.653	10.37
47)	T	1,1,2-Trichlor...			0.503	0.522	0.465	0.424	0.340	0.451	16.02
48)	T	Dibromochlorom...			0.750	0.787	0.757	0.718	0.599	0.722	10.13
49)	T	Bromoform			0.514	0.577	0.572	0.534	0.445	0.528	10.10
50)	T	4-Methyl-2-Pen...			1.008	1.075	1.007	0.930	0.732	0.950	13.94
51)	T	2-Hexanone			0.906	0.977	0.959	0.874	0.722	0.888	11.38
52)	T	Tetrachloroethene	0.503	0.414	0.453	0.446	0.423	0.371	0.301	0.416	15.53
53)	T	Toluene			1.332	1.409	1.334	1.219	0.968	1.252	13.80
54)	T	1,2-Dibromoethane			0.742	0.749	0.717	0.659	0.533	0.680	13.15
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.574	0.576	0.540	0.474	0.375	0.508	16.73
57)	T	Chlorobenzene			1.165	1.146	1.066	0.917	0.712	1.001	18.86
58)	T	Ethyl Benzene			1.872	1.934	1.847	1.608	1.272	1.707	15.97
59)	T	m/p-Xylene			1.586	1.659	1.510	1.282	1.031	1.413	18.15
60)	T	o-Xylene			1.593	1.659	1.523	1.270	1.026	1.414	18.54
61)	T	Styrene			0.340	0.367	0.371	0.353	0.290	0.344	9.55
62)		Isopropylbenzene			2.065	2.130	1.979	1.640	1.345	1.832	18.08
63)	T	1,1,2,2-Tetrac...	1.074	0.961	1.141	1.145	1.028	0.824	0.668	0.977	18.05
64)		n-propylbenzene			0.525	0.531	0.504	0.436	0.353	0.470	16.04
65)		tert-Butylbenzene			1.799	1.885	1.739	1.412	1.172	1.601	18.70
66)	T	Benzyl Chloride			0.125	0.137	0.132	0.146	0.120	0.132	7.75
67)		sec-Butylbenzene			2.553	2.601	2.438	1.969	1.621	2.237	19.02
68)	S	1-Bromo-4-Fluo...	0.779	0.772	0.744	0.743	0.715	0.684	0.755	0.742	4.43
69)		p-Isopropyltol...			1.965	2.118	1.992	1.647	1.348	1.814	17.27
70)		n-Butylbenzene			2.120	2.159	2.036	1.633	1.335	1.856	19.33
71)		2-Chlorotoluene			1.509	1.606	1.497	1.268	1.026	1.381	16.95
72)	T	4-Ethyltoluene			1.613	1.698	1.620	1.382	1.148	1.492	15.13
73)	T	1,3,5-Trimethy...			1.475	1.539	1.446	1.222	1.012	1.339	16.29
74)	T	1,2,4-Trimethy...			1.699	1.731	1.582	1.257	1.048	1.463	20.40
75)	T	1,3-Dichlorobe...			1.039	1.062	0.997	0.796	0.657	0.910	19.38
76)	T	1,4-Dichlorobe...			1.053	1.044	0.987	0.809	0.672	0.913	18.27
77)	T	1,2-Dichlorobe...			1.058	1.039	0.958	0.776	0.645	0.895	20.00
78)	T	Hexachloro-1,3...			0.302	0.279	0.246	0.175	0.160	0.233	27.02
79)	T	Naphthalene			1.026	1.080	1.219	0.966	0.767	1.012	16.37
80)	T	Naphthalene,2-...			0.179	0.178	0.292	0.312	0.221	0.236	26.60
81)	T	1,2,4-Trichlor...			0.556	0.568	0.601	0.468	0.368	0.512	18.47

(#) = Out of Range

Response Factor Report Instrumen

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method File : VL011618AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jan 16 17:13:38 2018
Last Update : Tue Jan 16 17:13:38 2018
Response Via : Initial Calibration

Calibration Files
0.03=VL031374.D 0.1 =VL031373.D 0.5 =VL031372.D 1 =VL031371.D 2 =VL031370.D 10 =VL031369.D 15 =VL031375.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------	ISTD	----------						
2)	T	Dichlorodifluo...		2.971	1.999	1.616	2.334	2.051	2.194		22.97
3)		Chlorodifluoro...		1.775	1.763	1.726	1.598	1.416	1.655		9.14
4)		Chloromethane		0.812	0.821	0.822	0.690	0.645	0.758		11.13
5)	T	Vinyl Chloride	1.223	0.809	0.780	0.794	0.798	0.701	0.660	0.823	22.45
6)	T	Bromomethane			0.533	0.533	0.532	0.480	0.459	0.507	7.00
7)		Chloroethane			0.338	0.314	0.305	0.283	0.266	0.301	9.26
8)	T	Dichlorotetraf...			2.121	2.086	1.927	1.770	1.654	1.912	10.49
9)	T	Propene			0.666	0.697	0.708	0.633	0.563	0.653	8.95
10)	T	Heptane			2.021	2.123	2.141	1.915	1.757	1.991	8.01
11)	T	Trichlorofluor...			2.391	2.398	2.307	2.041	1.985	2.224	8.86
12)	T	1,1,2-Trichlor...			1.529	1.515	1.481	1.364	1.299	1.438	7.04
13)		Ethanol			0.437	0.442	0.449	0.162	0.157	0.329	47.04
14)	T	Bromoethene			0.640	0.616	0.629	0.563	0.542	0.598	7.21
15)	T	Acetone			2.698	2.413	2.330	1.455	1.357	2.051	29.52
16)	T	1,3-Butadiene			0.737	0.735	0.705	0.702	0.656	0.707	4.66
17)		tert-Butyl alc...			0.859	0.887	0.929	0.748	0.689	0.823	12.20
18)	T	1,1-Dichloroet...			0.639	0.642	0.650	0.591	0.576	0.620	5.41
19)	T	Isopropyl Alcohol			1.453	1.508	1.547	0.973	0.939	1.284	23.49
20)	T	Methylene Chlo...			0.740	0.720	0.725	0.545	0.522	0.650	16.50
21)	T	Allyl Chloride			0.999	1.033	1.067	1.013	0.940	1.010	4.62
22)	T	trans-1,2-Dich...			0.697	0.732	0.685	0.625	0.650	0.678	6.15
23)	T	Vinyl Acetate			2.543	2.401	2.435	2.188	2.013	2.316	9.19
24)	T	1,1-Dichloroet...			1.980	2.060	1.952	1.726	1.566	1.857	11.01
25)	T	Ethyl Acetate			3.743	3.769	3.780	2.926	2.619	3.367	16.45
26)	T	Hexane			1.519	1.586	1.561	1.312	1.180	1.432	12.37
27)	T	Carbon Disulfide			1.682	1.858	1.862	1.751	1.691	1.769	4.94
28)	T	Methyl tert-Bu...			1.731	1.890	1.846	1.683	1.533	1.737	8.14
29)	T	Chloroform			2.580	2.596	2.538	2.169	1.944	2.365	12.42
30)	T	Cyclohexane			1.094	1.233	1.254	1.136	1.029	1.149	8.23
31)	T	cis-1,2-Dichlo...			1.421	1.486	1.515	1.342	1.184	1.390	9.56
32)	T	1,1,1-Trichlor...	3.111	2.452	2.445	2.461	2.493	2.266	2.063	2.470	13.01
33)	I	1,4-Difluorobenzene	----------	ISTD	----------						
34)	T	2-Butanone			1.141	1.169	1.199	0.819	0.735	1.012	21.56
35)	T	Carbon Tetrach...	1.483	1.172	1.136	1.155	1.148	0.976	0.883	1.136	16.55
36)	T	Benzene			1.276	1.370	1.394	1.139	1.014	1.239	12.96
37)	T	1,2-Dichloroet...			0.935	0.958	0.964	0.777	0.704	0.868	13.77

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method File : VL011618AIR.M

38)	T	Trichloroethene	0.736	0.527	0.504	0.522	0.550	0.438	0.401	0.525	20.37
39)	T	1,2-Dichloropr...			0.481	0.492	0.502	0.430	0.376	0.456	11.51
40)	T	1,4-Dioxane			0.188	0.282	0.291	0.187	0.171	0.224	25.73
41)	T	Tetrahydrofuran			0.536	0.586	0.620	0.447	0.411	0.520	17.17
42)	T	Bromodichlorom...			1.142	1.142	1.190	0.981	0.878	1.066	12.37
43)		Methyl Methacr...			0.457	0.488	0.521	0.438	0.399	0.461	10.10
44)	T	2,2,4-Trimethy...			2.159	2.308	2.315	1.822	1.608	2.042	15.40
45)	T	t-1,3-Dichloro...			0.542	0.618	0.675	0.665	0.613	0.622	8.51
46)	T	cis-1,3-Dichlo...			0.734	0.803	0.846	0.791	0.719	0.778	6.68
47)	T	1,1,2-Trichlor...			0.560	0.585	0.582	0.486	0.446	0.532	11.72
48)	T	Dibromochlorom...			0.956	0.973	0.997	0.872	0.804	0.920	8.74
49)	T	Bromoform			0.712	0.776	0.807	0.677	0.627	0.720	10.11
50)	T	4-Methyl-2-Pen...			1.410	1.495	1.521	1.112	1.012	1.310	17.76
51)	T	2-Hexanone			1.321	1.489	1.568	1.086	0.998	1.293	19.14
52)	T	Tetrachloroethene	0.682	0.546	0.490	0.509	0.507	0.425	0.392	0.507	18.42
53)	T	Toluene			1.441	1.563	1.607	1.405	1.278	1.458	8.99
54)	T	1,2-Dibromoethane			0.828	0.880	0.896	0.779	0.713	0.819	9.20
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.668	0.690	0.647	0.533	0.485	0.604	14.93
57)	T	Chlorobenzene			1.254	1.284	1.206	0.993	0.888	1.125	15.53
58)	T	Ethyl Benzene			2.074	2.211	2.159	1.786	1.607	1.967	13.21
59)	T	m/p-Xylene			1.771	1.850	1.746	1.440	1.307	1.623	14.52
60)	T	o-Xylene			1.758	1.871	1.803	1.470	1.312	1.643	14.61
61)	T	Styrene			0.344	0.390	0.413	0.385	0.357	0.378	7.26
62)		Isopropylbenzene			2.199	2.349	2.274	1.831	1.677	2.066	14.28
63)	T	1,1,2,2-Tetrac...	2.076	1.481	1.338	1.337	1.260	0.984	0.881	1.337	29.07
64)		n-propylbenzene			0.545	0.591	0.566	0.468	0.438	0.522	12.54
65)		tert-Butylbenzene			1.935	2.045	2.018	1.589	1.468	1.811	14.59
66)	T	Benzyl Chloride			0.144	0.159	0.162	0.177	0.168	0.162	7.65
67)		sec-Butylbenzene			2.662	2.933	2.857	2.207	2.023	2.536	15.87
68)	S	1-Bromo-4-Fluo...	0.790	0.806	0.767	0.772	0.746	0.746	0.764	0.770	2.86
69)		p-Isopropyltol...			2.084	2.306	2.302	1.806	1.679	2.035	14.03
70)		n-Butylbenzene			2.206	2.428	2.434	1.870	1.700	2.128	15.58
71)		2-Chlorotoluene			1.657	1.739	1.722	1.413	1.307	1.568	12.48
72)	T	4-Ethyltoluene			1.707	1.864	1.847	1.535	1.424	1.675	11.52
73)	T	1,3,5-Trimethy...			1.514	1.653	1.629	1.359	1.263	1.484	11.44
74)	T	1,2,4-Trimethy...			1.737	1.811	1.769	1.447	1.337	1.620	13.17
75)	T	1,3-Dichlorobe...			1.117	1.164	1.134	0.898	0.842	1.031	14.47
76)	T	1,4-Dichlorobe...			1.051	1.117	1.107	0.913	0.854	1.009	11.76
77)	T	1,2-Dichlorobe...			1.098	1.144	1.130	0.878	0.830	1.016	14.74
78)	T	Hexachloro-1,3...			0.370	0.350	0.316	0.226	0.233	0.299	22.20
79)	T	Naphthalene			0.525	0.696	0.817	1.027	0.925	0.798	24.54
80)	T	Naphthalene,2-...			0.017	0.033	0.071	0.398	0.272	0.158	106.56
81)	T	1,2,4-Trichlor...			0.403	0.466	0.502	0.509	0.446	0.465	9.37

(#) = Out of Range

Response Factor Report Instrumen

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method File : VL011718AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 18 06:41:16 2018
Last Update : Thu Jan 18 06:41:16 2018
Response Via : Initial Calibration

Calibration Files
0.03=VL031394.D 0.1 =VL031393.D 0.5 =VL031392.D 1 =VL031391.D 2 =VL031390.D 10 =VL031389.D 15 =VL031395.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...		2.616	2.341	2.116	1.178	1.399	1.930		31.95
3)		Chlorodifluoro...		1.675	1.586	1.576	1.276	1.264	1.476		12.97
4)		Chloromethane		0.735	0.707	0.756	0.565	0.560	0.665		14.28
5)	T	Vinyl Chloride	0.846	0.703	0.700	0.708	0.723	0.583	0.549	0.687	14.20
6)	T	Bromomethane		0.497	0.501	0.504	0.409	0.388	0.460		12.25
7)		Chloroethane		0.297	0.296	0.292	0.234	0.225	0.269		13.50
8)	T	Dichlorotetraf...		2.017	1.947	1.941	1.474	1.463	1.769		15.59
9)	T	Propene		0.563	0.580	0.619	0.474	0.485	0.544		11.52
10)	T	Heptane		1.653	1.793	1.807	1.424	1.495	1.634		10.55
11)	T	Trichlorofluor...		2.345	2.252	2.221	1.735	1.731	2.057		14.53
12)	T	1,1,2-Trichlor...		1.483	1.399	1.389	1.111	1.138	1.304		12.91
13)		Ethanol		0.383	0.379	0.371	0.123	0.108	0.273		52.64
14)	T	Bromoethene		0.583	0.588	0.585	0.472	0.461	0.538		12.15
15)	T	Acetone		2.025	1.990	1.984	1.148	1.152	1.660		28.06
16)	T	1,3-Butadiene		0.607	0.685	0.756	0.530	0.524	0.621		16.19
17)		tert-Butyl alc...		0.884	0.868	0.809	0.617	0.622	0.760		17.30
18)	T	1,1-Dichloroet...		0.629	0.608	0.610	0.497	0.520	0.573		10.41
19)	T	Isopropyl Alcohol		1.402	1.362	1.366	0.793	0.759	1.136		29.01
20)	T	Methylene Chlo...		0.742	0.677	0.663	0.443	0.467	0.598		22.49
21)	T	Allyl Chloride		0.946	0.947	0.959	0.798	0.841	0.898		8.22
22)	T	trans-1,2-Dich...		0.662	0.640	0.656	0.537	0.554	0.610		9.77
23)	T	Vinyl Acetate		2.189	1.869	2.010	1.623	1.716	1.882		12.05
24)	T	1,1-Dichloroet...		1.729	1.711	1.752	1.346	1.408	1.589		12.31
25)	T	Ethyl Acetate		3.175	3.144	3.197	2.314	2.338	2.833		16.37
26)	T	Hexane		1.256	1.283	1.318	1.030	1.044	1.186		11.64
27)	T	Carbon Disulfide		1.673	1.639	1.697	1.420	1.487	1.583		7.74
28)	T	Methyl tert-Bu...		1.482	1.504	1.608	1.280	1.345	1.444		9.06
29)	T	Chloroform		2.264	2.232	2.217	1.742	1.736	2.038		13.42
30)	T	Cyclohexane		0.948	1.042	1.034	0.832	0.886	0.948		9.64
31)	T	cis-1,2-Dichlo...		1.164	1.235	1.288	1.028	1.055	1.154		9.73
32)	T	1,1,1-Trichlor...	2.526	2.177	2.196	2.204	2.211	1.799	1.827	2.134	11.73
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone		0.923	0.934	0.998	0.658	0.646	0.832		20.04
35)	T	Carbon Tetrach...	1.068	0.928	0.987	1.013	1.028	0.830	0.829	0.955	10.03
36)	T	Benzene		1.091	1.122	1.150	0.906	0.910	1.036		11.45
37)	T	1,2-Dichloroet...		0.842	0.817	0.838	0.674	0.644	0.763		12.57

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method File : VL011718AIR.M

38)	T	Trichloroethene	0.527	0.424	0.420	0.443	0.450	0.373	0.370	0.429	12.38
39)	T	1,2-Dichloropr...			0.403	0.418	0.416	0.339	0.337	0.383	10.74
40)	T	1,4-Dioxane			0.211	0.243	0.236	0.149	0.122	0.192	28.01
41)	T	Tetrahydrofuran			0.444	0.456	0.501	0.355	0.354	0.422	15.42
42)	T	Bromodichlorom...			1.009	1.043	1.017	0.819	0.811	0.940	12.19
43)		Methyl Methacr...			0.384	0.407	0.432	0.352	0.356	0.386	8.75
44)	T	2,2,4-Trimethy...			1.848	1.945	1.925	1.497	1.461	1.735	13.66
45)	T	t-1,3-Dichloro...			0.462	0.505	0.589	0.547	0.555	0.532	9.26
46)	T	cis-1,3-Dichlo...			0.611	0.676	0.721	0.631	0.647	0.657	6.50
47)	T	1,1,2-Trichlor...			0.473	0.494	0.498	0.394	0.392	0.450	11.82
48)	T	Dibromochlorom...			0.808	0.848	0.881	0.721	0.728	0.797	8.93
49)	T	Bromoform			0.620	0.668	0.704	0.570	0.572	0.627	9.45
50)	T	4-Methyl-2-Pen...			1.163	1.253	1.302	0.880	0.891	1.098	18.22
51)	T	2-Hexanone			1.147	1.275	1.375	0.883	0.899	1.116	19.80
52)	T	Tetrachloroethene	0.460	0.426	0.410	0.426	0.433	0.350	0.352	0.408	10.28
53)	T	Toluene			1.165	1.308	1.381	1.121	1.128	1.221	9.60
54)	T	1,2-Dibromoethane			0.724	0.752	0.773	0.636	0.648	0.707	8.69
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.585	0.569	0.564	0.441	0.421	0.516	15.18
57)	T	Chlorobenzene			1.070	1.063	1.030	0.799	0.762	0.945	16.04
58)	T	Ethyl Benzene			1.707	1.810	1.837	1.442	1.371	1.634	13.11
59)	T	m/p-Xylene			1.445	1.510	1.511	1.179	1.110	1.351	14.22
60)	T	o-Xylene			1.454	1.552	1.544	1.202	1.138	1.378	14.15
61)	T	Styrene			0.273	0.301	0.339	0.301	0.297	0.302	7.85
62)		Isopropylbenzene			1.838	1.954	1.927	1.505	1.443	1.733	13.94
63)	T	1,1,2,2-Tetrac...	1.329	1.015	1.139	1.128	1.107	0.799	0.760	1.040	19.36
64)		n-propylbenzene			0.453	0.479	0.486	0.386	0.373	0.435	12.12
65)		tert-Butylbenzene			1.645	1.711	1.728	1.334	1.284	1.541	13.91
66)	T	Benzyl Chloride			0.137	0.137	0.141	0.150	0.159	0.145	6.47
67)		sec-Butylbenzene			2.378	2.445	2.476	1.876	1.764	2.188	15.53
68)	S	1-Bromo-4-Fluo...	0.830	0.805	0.814	0.797	0.764	0.777	0.742	0.790	3.87
69)		p-Isopropyltol...			1.808	1.920	1.966	1.536	1.480	1.742	12.74
70)		n-Butylbenzene			1.852	2.013	2.070	1.614	1.531	1.816	13.12
71)		2-Chlorotoluene			1.390	1.481	1.477	1.178	1.131	1.331	12.50
72)	T	4-Ethyltoluene			1.431	1.529	1.577	1.269	1.237	1.408	10.78
73)	T	1,3,5-Trimethy...			1.273	1.362	1.395	1.133	1.096	1.252	10.68
74)	T	1,2,4-Trimethy...			1.408	1.495	1.529	1.221	1.161	1.363	12.07
75)	T	1,3-Dichlorobe...			0.990	0.934	0.973	0.760	0.733	0.878	13.91
76)	T	1,4-Dichlorobe...			0.943	0.929	0.961	0.774	0.749	0.871	11.61
77)	T	1,2-Dichlorobe...			0.947	0.953	0.962	0.752	0.725	0.868	13.66
78)	T	Hexachloro-1,3...			0.351	0.323	0.307	0.210	0.204	0.279	24.29
79)	T	Naphthalene			0.405	0.515	0.627	0.883	0.887	0.664	32.71
80)	T	Naphthalene,2-...			0.020	0.023	0.035	0.398	0.347	0.164	116.00
81)	T	1,2,4-Trichlor...			0.319	0.350	0.384	0.442	0.438	0.387	13.92

(#) = Out of Range

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG No.: J1066

Instrument ID: MSVOA_L Calibration Date/Time: 01/11/2018 12:44

Lab File ID: VL031339.D Init. Calib. Date(s): 01/02/2018 01/02/2018

Heated Purge: (Y/N) N Init. Calib. Time(s): 15:54 19:45

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.475	1.884		27.73	30
Chloromethane	0.664	0.685		3.16	30
Vinyl Chloride	0.676	0.648		-4.14	30
Bromomethane	0.437	0.419		-4.12	30
Chloroethane	0.258	0.251		-2.71	30
Tetrahydrofuran	0.388	0.397		2.32	30
Trichlorofluoromethane	1.865	1.782		-4.45	30
1,1,2-Trichlorotrifluoroethane	1.176	1.149		-2.3	30
Dichlorotetrafluoroethane	1.616	1.566		-3.09	30
Bromoethene	0.513	0.496		-3.31	30
tert-Butyl alcohol	0.700	0.579		-17.29	30
Heptane	1.731	1.650		-4.68	30
1,1-Dichloroethene	0.532	0.521		-2.07	30
Acetone	1.613	1.537		-4.71	30
Carbon Disulfide	1.379	1.469		6.53	30
Methyl tert-Butyl Ether	1.543	1.480		-4.08	30
Methylene Chloride	0.528	0.475		-10.04	30
trans-1,2-Dichloroethene	0.582	0.585		0.51	30
1,1-Dichloroethane	1.637	1.565		-4.4	30
Cyclohexane	1.028	0.997		-3.02	30
2-Butanone	0.757	0.717		-5.28	30
Carbon Tetrachloride	0.851	0.830		-2.47	30
cis-1,2-Dichloroethene	1.216	1.146		-5.76	30
Chloroform	1.996	1.852		-7.21	30
1,1,1-Trichloroethane	1.984	1.904		-4.03	30
2,2,4-Trimethylpentane	1.736	1.641		-5.47	30
Benzene	1.068	1.000		-6.37	30
1,2-Dichloroethane	0.683	0.652		-4.54	30
Trichloroethene	0.437	0.387		-11.44	30
1,2-Dichloropropane	0.387	0.374		-3.36	30
Bromodichloromethane	0.848	0.845		-0.35	30
4-Methyl-2-Pentanone	0.950	0.916		-3.58	30
Toluene	1.252	1.195		-4.55	30
t-1,3-Dichloropropene	0.516	0.523		1.36	30
cis-1,3-Dichloropropene	0.653	0.639		-2.14	30
1,1,2-Trichloroethane	0.451	0.422		-6.43	30
Dibromochloromethane	0.722	0.727		0.69	30
1,2-Dibromoethane	0.680	0.639		-6.03	30
Tetrachloroethene	0.416	0.363		-12.74	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: HDRI01

Lab Code: CHEM Case No.: J1066 SAS No.: J1066 SDG No.: J1066

Instrument ID: MSVOA_L Calibration Date/Time: 01/11/2018 12:44

Lab File ID: VL031339.D Init. Calib. Date(s): 01/02/2018 01/02/2018

Heated Purge: (Y/N) N Init. Calib. Time(s): 15:54 19:45

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.001	0.908		-9.29	30
Ethyl Benzene	1.707	1.630		-4.51	30
m/p-Xylene	1.413	1.286		-8.99	30
o-Xylene	1.414	1.315		-7	30
Styrene	0.344	0.331		-3.78	30
Bromoform	0.528	0.542		2.65	30
1,1,2,2-Tetrachloroethane	0.977	0.877		-10.23	30
2-Chlorotoluene	1.381	1.260		-8.76	30
1,3,5-Trimethylbenzene	1.339	1.214		-9.34	30
1,2,4-Trimethylbenzene	1.463	1.279		-12.58	30
1,3-Dichlorobenzene	0.910	0.777		-14.61	30
1,4-Dichlorobenzene	0.913	0.771		-15.55	30
1,2-Dichlorobenzene	0.895	0.761		-14.97	30
1,2,4-Trichlorobenzene	0.512	0.367		-28.32	30
Hexachloro-1,3-Butadiene	0.233	0.330		41.63	30
1,3-Butadiene	0.619	0.607		-1.94	30
Naphthalene	1.012	0.786		-22.33	30
4-Ethyltoluene	1.492	1.352		-9.38	30
1-Bromo-4-Fluorobenzene	0.742	0.754		1.62	30
Hexane	1.247	1.171		-6.09	30
Allyl Chloride	0.835	0.843		0.96	30
1,4-Dioxane	168.925	163.179		-3.4	30
Methyl Methacrylate	0.376	0.371		-1.33	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

SHIPPING DOCUMENTS

J1066

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : _____

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	1 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) : Barbara Firebaugh	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Batch Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas		
SC-042-20180103	1-3-18	1237	1437	-30	-10			-30	-5	10177	10149	1.4 L	12.5	VL030255.D	X	X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0ppm

Sampling site (State): NY

Quick Connector required : Yes

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 4
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 10:45	

J1066

6.1

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. :

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	2 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**	Batch Certified	
City : **Albany**	Site Details:		
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	Analysis: TO-15	Matrix: Indoor/Ambinet Air	Matrix: Soil Gas
SC-SG3-20180103	1-3-18	1225	1405	-30	-5			-30	-11.6	10189	10662	1.4 L	12.5	VL029676.D	X		X

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0 ppm

Sampling site (State): NY

Quick Connector required : YES

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 11
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 10:45	

J1066

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. :

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	3 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Batch Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-SG2-20180107	1-3-18	1220	1420	-31	-31			-30	-8.8	10230	10120	1.4 L	12.5	VL029595.D	X		X

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0 ppm

Sampling site (State): NY

Quick Connector required : Yes

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 2
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 10:45	

J1066

6.1

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. :

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	4 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**	Batch Certified	
City : **Albany**	Site Details:		
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** OR	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-SG1-20180103	1-3-18	1215	1415	-29	-6			-30	-9.6	10174	10793 ~~10743~~	1.4 L	12.5	VL029595.D	X		X

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0 ppm

Sampling site (State): NY

Quick Connector required : Yes

Canisters Shiped by:	Date/Time: 12/21/17	Canisters Received by:	Date/Time:
Samples Relinquished by:	Date/Time: 1-5-18	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: CR	Date/Time: 1-5-18 10:45

B1712086 - 12

J1066

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	5 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**	Batch Certified	
City : **Albany**	Site Details:		
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-SG4-20180103	1-3-18	1227	1427	-31	-9			-30	-10.4	10167	10747	1.4 L	12.5	VL030255.D	X		X

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0 ppm

Sampling site (State): NY

Quick Connector required : YES

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 13
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 1015	

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	6 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Batch Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): ____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15			Indoor/Ambinet Air	Soil Gas		
SC-SGS-20180103	1-3-18	1232	1434	-31	-9			-30	-10.4	10779	10112	1.4 L	12.5	VL030255.D	X				X		

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0 ppm

Sampling site (State): NY

Quick Connector required : Yes

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 1
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 10:45	

J1066

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	7 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Batch Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-SG 6-20180103	1-3-18	1257	1422	-22	-5			-30	-10.4	10108	10743 ~~10793~~	1.4 L	12.5	VL030255.D	X		X

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0 ppm

Sampling site (State): NY

Quick Connector required : YES

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 14
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by: CP	Date/Time: 1-8-18 10:45	

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	8 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Batch Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-SS2-20180105	1-3-18	0941	1000	-29	-6			-30	5.9	10206	10266	6 L	4.16	VL031054.D	X		X

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CATB

Suspected Contamination: High Medium (Low)

PID Readings: 0 ppm

Sampling site (State): NY

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 10:45	

B1712086 - 5

J1066

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	9 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**	Batch Certified	
City : **Albany**	Site Details:		
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-SS1-20180103	1-3-18	0940	0950	-27	-7			-30	-6.3	10478	10306	6 L	4.16	VL031054.D	X		X

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0

Sampling site (State): NY

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 7
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by: C.P	Date/Time: 1-8-18 10:45	

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	10 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Individual Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-DUPE1 20180103	1-3-18	0941	1000	-31	-6			-30	-5.1	10520	10403	6 L	4.16	VL031054.D	X		X

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings: 0

Sampling site (State): NY

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 12/21/17	Canisters Received by:	Date/Time:
Samples Relinquished by:	Date/Time: 1-5-18	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: CP	Date/Time: 1-8-18 10:45

B1712086 - 9

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	11 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Batch Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-IA1-20180103	1-3-18	0940	0925	-31	-5			-30	-5.5	10772	10298	6 L	4.16	VL031054.D	X	X	

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT 5

Suspected Contamination: High Medium (Low)

PID Readings: 0

Sampling site (State): NY

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	B1712086 - 6
Relinquished by:		Date/Time:	Received by: LP	Date/Time: 1-8-18 10:40	

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	12 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**		
City : **Albany**	Site Details:	Batch Certified	
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambinet Air	Soil Gas
SC-OA-20180103	1-3-18	0946	0855	-29	-5			-30	-5.5	10552	10440	6 L	4.16	VL031054.D	X	X	

Temperature (Fahrenheit)

	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)

	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CATB

Suspected Contamination: High Medium (Low)

PID Readings: 0

Sampling site (State): NY

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	B1712086 - 10
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 10:45	

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. : J1066

Client Contact Information	Bottle Order ID : **B1712086**	Courier :	13 of 13 COCs
Client ID : **HDRI01**	Project ID : **Work Assignment #37 Former Stamps Cleaners - SC**	Sampler Name(s) :	Analysis / Matrix
Customer Name : **HDR, Inc.**	Project Manager **Barbara firebaugh**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **16 Corporate Woods Blvd.**	Phone Number : **518-937-9500**		
Building 16, Suite 204	Fax Number : **5189379555**	Batch Certified	
City : **Albany**	Site Details:		
State : **NY**	Analysis Turnaround Time		
Zip Code : **12211**	Standard : **15 business days** **OR**	Data Package Type :	
Country :	Rush (Specify): _____ **Days**	EDD Type :	

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas		
SC-IA2-20180103	1-3-18	0945	1011	-31	-8			-30	-7.5	10176	10322	6 L	4.16	VL031054.D	X				X			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments : CAT B

Suspected Contamination: High Medium (Low)

PID Readings:

Sampling site (State): NY

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 12/21/17	Canisters Received by:	Date/Time:	
Samples Relinquished by:		Date/Time: 1-5-18	Received by:	Date/Time:	B1712086 - 8
Relinquished by:		Date/Time:	Received by:	Date/Time: 1-8-18 10:45	

View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialogue box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a scheduled Pickup
   - Your driver will pickup your shipment(s) as usual.

   Customers without a scheduled Pickup
   - Schedule a Pickup on ups.com to have a UPS driver pickup all of your packages.
   - Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. To find the location nearest you, please visit the 'Locations' Quick link at ups.com.

UPS Access Point™
THE UPS STORE
911 CENTRAL AVE
ALBANY NY 12206-1350

UPS Access Point™
CENTRAL AVENUE PHARMACY
346 CENTRAL AVE
ALBANY NY 12206-2347

UPS Access Point™
ALLEN MINI MART
136 N ALLEN ST
ALBANY NY 12206-1702

FOLD HERE

J1066

ELLEN PANGBURN
518-937-9500
HDR
16 CORPORATE WOODS BLVD.
ALBANY NY 12211

SHIP TO:
SAMPLE RECEIVING
908-789-8900
CHEMTECH
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092

15 LBS 1 OF 3

DWT: 19,16,10

NJ 078 9-61

UPS GROUND

TRACKING #: 1Z 08Y 3X1 03 9059 5753

BILLING: P/P

XOL 17.11.08 NV45 93.0A 10/2017

1.4.18 12:45

163 of 175

J1066

View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialogue box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a scheduled Pickup
   - Your driver will pickup your shipment(s) as usual.

   Customers without a scheduled Pickup
   - Schedule a Pickup on ups.com to have a UPS driver pickup all of your packages.
   - Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. To find the location nearest you, please visit the 'Locations' Quick link at ups.com.

UPS Access Point™	UPS Access Point™	UPS Access Point™
THE UPS STORE	CENTRAL AVENUE PHARMACY	ALLEN MINI MART
911 CENTRAL AVE	346 CENTRAL AVE	136 N ALLEN ST
ALBANY NY 12206-1350	ALBANY NY 12206-2347	ALBANY NY 12206-1702

FOLD HERE

J1066

ELLEN PANGBURN
518-937-9500
HDR
16 CORPORATE WOODS BLVD.
ALBANY NY 12211

29 LBS **2 OF 3**
DWT: 19,19,16

SHIP TO:
SAMPLE RECEIVING
908-789-8900
CHEMTECH
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092

NJ 078 9-61

UPS GROUND
TRACKING #: 1Z 08Y 3X1 03 9329 5161

BILLING: P/P

XOL 17.11.08 NV45 93.0A 10/2017 TM

1-8-18
10:45

View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialogue box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a scheduled Pickup
   - Your driver will pickup your shipment(s) as usual.

   Customers without a scheduled Pickup
   - Schedule a Pickup on ups.com to have a UPS driver pickup all of your packages.
   - Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. To find the location nearest you, please visit the 'Locations' Quick link at ups.com.

UPS Access Point™
THE UPS STORE
911 CENTRAL AVE
ALBANY NY 12206-1350

UPS Access Point™
CENTRAL AVENUE PHARMACY
346 CENTRAL AVE
ALBANY NY 12206-2347

UPS Access Point™
ALLEN MINI MART
136 N ALLEN ST
ALBANY NY 12206-1702

FOLD HERE

J1066

ELLEN PANGBURN
518-937-9500
HDR
16 CORPORATE WOODS BLVD.
ALBANY NY 12211

SHIP TO:
SAMPLE RECEIVING
908-789-8900
CHEMTECH
284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092

26 LBS **3 OF 3**
DWT: 19,19,16

NJ 078 9-61

UPS GROUND
TRACKING #: 1Z 08Y 3X1 03 9183 8177

BILLING: P/P

XOL 17.11.08 NV45 93.0A 10/2017

1-8-18
10:45

From:	Steven Kim
To:	Nancy Padilla
Subject:	FW: Question regarding the TO-15 samples received for WA #37 - Former Stamps Cleaners
Date:	Tuesday, January 09, 2018 10:14:00 AM
Attachments:	image001.jpg S18010812580.pdf

FYI

From: Starr, Justin [mailto:Justin.Starr@hdrinc.com]
Sent: Monday, January 08, 2018 1:11 PM
To: steven@chemtech.net
Cc: Firebaugh, Barbara
Subject: RE: Question regarding the TO-15 samples received for WA #37 - Former Stamps Cleaners

Hi Steven –

See attached. SC-SG1 used canister ID: 10793 and regulator ID: 10174. SC-SG6 used canister ID: 10743 and regulator ID: 10108. Each canister should be labeled accordingly.

As for the second question, there was an issue. When the regulator was attached the pressure indicated that some equilibration with the ambient air had occurred (I believe the starting pressure was <15 inHg). Since we had an extra canister, we decided that we would not use that one.

Take care,

Justin Starr
D [518-937-9524] **M** [518-410-9005]

hdrinc.com/follow-us

From: Firebaugh, Barbara
Sent: Monday, January 08, 2018 1:00 PM
To: Starr, Justin
Subject: FW: Question regarding the TO-15 samples received for WA #37 - Former Stamps Cleaners

Can you check on this for me?

Thanks,

Barbara
D 518-937-9509 **M** 518-477-3442

hdrinc.com/follow-us

From: Steven Kim [mailto:steven@chemtech.net]
Sent: Monday, January 8, 2018 12:58 PM
To: Firebaugh, Barbara <Barbara.Firebaugh@hdrinc.com>
Subject: Question regarding the TO-15 samples received for WA #37 - Former Stamps Cleaners

Hi Barbara,

Hope this finds you well. We received the Summa canisters today for the referenced project ID, and

our analyst was wondering about the attached COCs. Could you confirm that HDR Sample ID “SC-SG1-20180103” was sampled using SUMMA Canister ID 10793, and that sample ID “SC-SG6-20180103” was sampled using canister ID 10743? If so, could you make the appropriate corrections on the first page of the attached?

In addition, we received one 1.4L canister without the COC form that was associated with this canister and flow regulator, and the canister tag had the sample information crossed out with “DNA” written on the tag. Was this canister and regulator not used during sampling, or was there a problem with the use of the Summa can and regulator?

Regards,

Steven Kim
Account Executive
Direct: (908) 728-3157
Fax: (908) 789-8922
Mobile: (732) 688-2642

IMG_1800

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech
Location: 284 Sheffield Street, Mountainside,NJ 7092
~~MARAGONA~~
Title: Sample Custodian
Field Sample Seal No. J1066
Date Broken 1/8/2018
Military Time Seal Broken: 10:45:00
Case No.: Work Assignment #37 For
Analytical Parameter/Fraction TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
J1066-01	SC-042-20180103	J1066-11	SC-IA1-20180103
J1066-02	SC-SG3-20180103	J1066-12	SC-OA-20180103
J1066-03	SC-SG2-20180103	J1066-13	SC-IA2-20180103
J1066-04	SC-SG1-20180103		
J1066-05	SC-SG4-20180103		
J1066-06	SC-SG5-20180103		
J1066-07	SC-SG6-20180103		
J1066-08	SC-SS2-20180103		
J1066-09	SC-SS1-20180103		
J1066-10	SC-DUPE1-20180103		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1-9-18	11:20	Signature [signature]	Signature [signature]	
		Printed Name Cassandra Pena	Printed Name HARJAP SINGH	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) *Yellow - Contractor Archive* *Pink - Sample Custodian - Interim Copy*

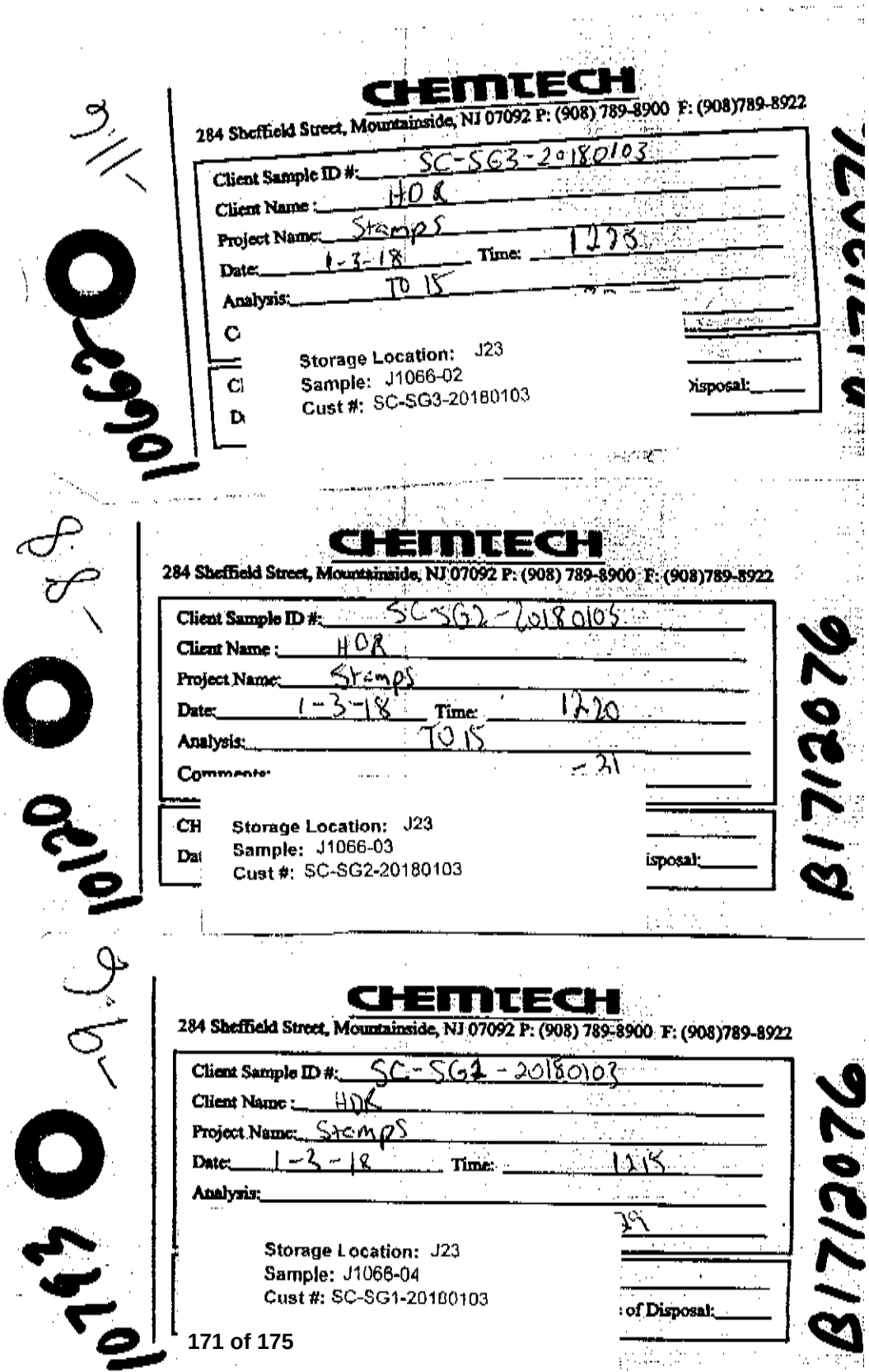
CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: AZ55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
1/2/18	J1002-01	10464	11.8	-5.9				SG
~~1/2/18~~	J 1060-01	10493	12.6	-4.3				SG
"	J 1060-02	10488	13.2	-3.1				"
~~1/8/18~~	~~J1060-01~~	~~10493~~	~~12.6~~	~~-4.3~~			~~1/8/18~~	
	~~J1060-02~~	~~1/8/18~~						
1/9/18	J1066-01	10149	12.0	-5.5				
	J1066-02	10662	9.0	-11.6				
	J1066-03	10120	10.4	-8.8				
	J1066-04	10793	10.0	-9.6				
	J1066-05	10747	9.6	-10.4				
	J1066-06	10112	9.6	-10.4				
	J1066-07	10743	9.6	-10.4				
	J1066-08	10266	11.8	-5.9				
	J1066-09	10306	11.6	-6.3				
	J1066-10	10403	12.2	-5.1				
	J1066-11	10298	12.0	-5.5				
	J1066-12	10440	12.0	-5.5				
	J1066-13	10322	11.0	-7.5				



CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-SG3-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 1215
Analysis: TO 15
Comments:

Storage Location: J23
Sample: J1066-02
Cust #: SC-SG3-20180103

Disposal:

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-SG2-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 1220
Analysis: TO 15
Comments: -21

Storage Location: J23
Sample: J1066-03
Cust #: SC-SG2-20180103

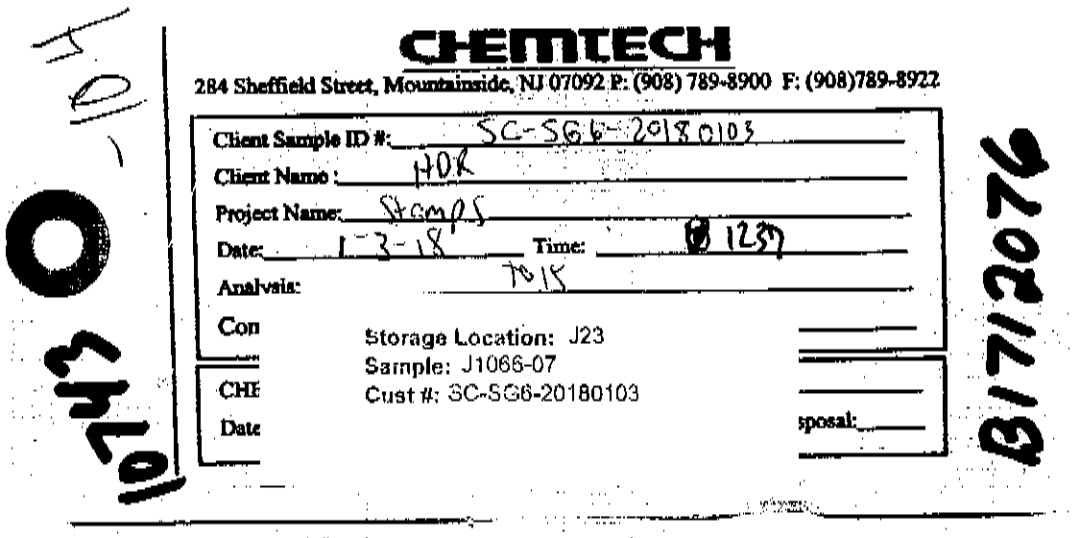
Disposal:

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-SG1-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 1215
Analysis:

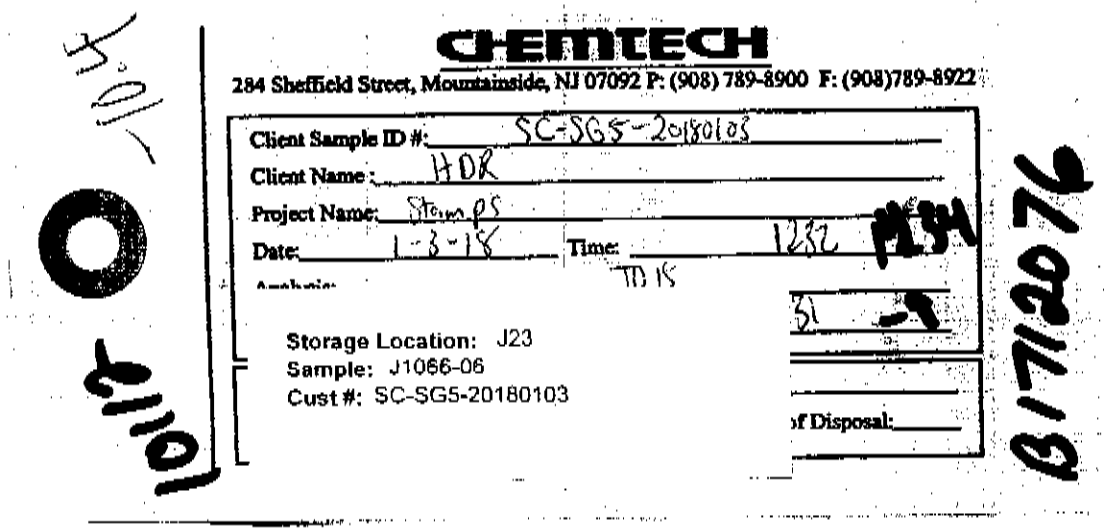
Storage Location: J23
Sample: J1066-04
Cust #: SC-SG1-20180103

of Disposal:



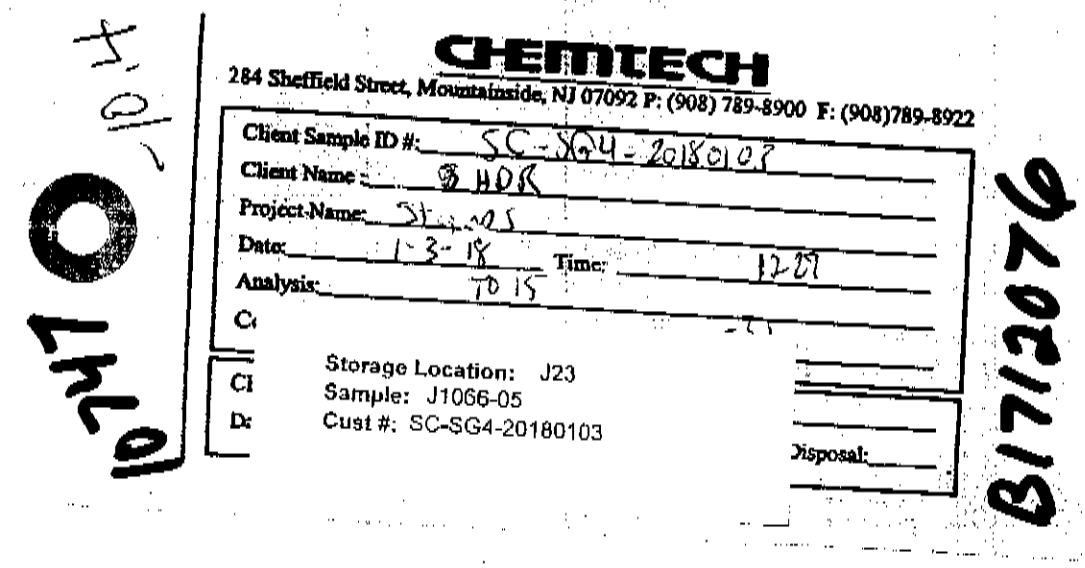
CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-SG6-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 1237
Analysis: TO 15
Con
Storage Location: J23
Sample: J1066-07
CHE Cust #: SC-SG6-20180103
Date
sposal:



CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-SG5-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 1252
TO 15
Storage Location: J23
Sample: J1066-06
Cust #: SC-SG5-20180103
f Disposal:



CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-SG4-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 1259
Analysis: TO 15
Storage Location: J23
Sample: J1066-05
Cust #: SC-SG4-20180103
Disposal:

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-DUPE1-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 0941
Analysis: TO 15
Com

CHE
Date

osal:

Storage Location: J23
Sample: J1066-10
Cust #: SC-DUPE1-20180103

0 -5.1 010103

B1712086

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-SS1-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 0940
Analysis: TO 15

of Disposal:

Storage Location: J23
Sample: J1066-09
Cust #: SC-SS1-20180103

0 -6.3 10306

B1712086

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

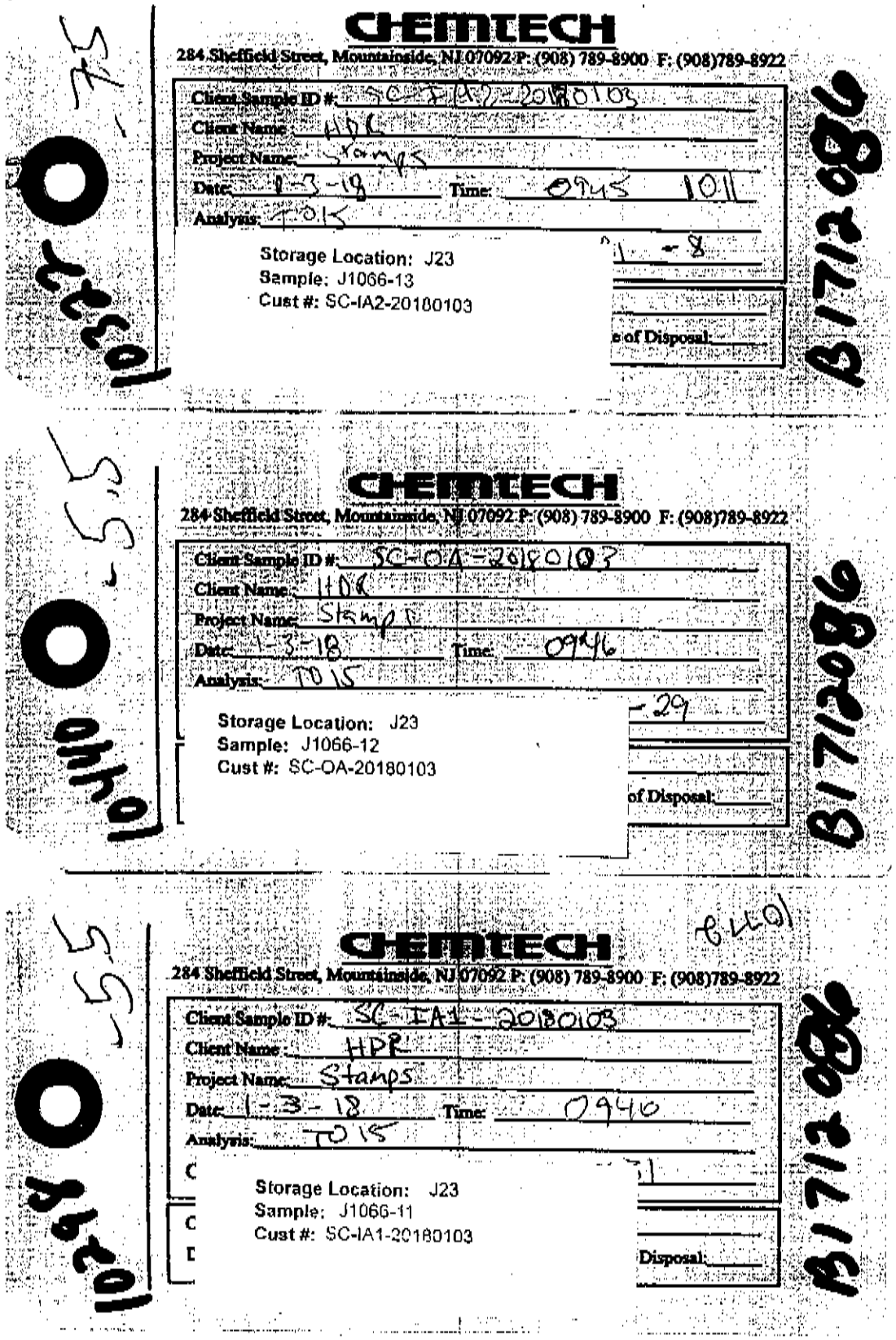
Client Sample ID #: SC-SS2-20180103
Client Name: HDR
Project Name: Stamps
Date: 1-3-18 Time: 0941
Analysis: TO 15
Comment -29

CHEMTEC
Date Recei

Storage Location: J23
Sample: J1066-08
Cust #: SC-SS2-20180103

0 -5.9 10296

B1712086



CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-IA2-20180103
Client Name: HPR
Project Name: Stamps
Date: 1-3-18 Time: 0945 1011
Analysis: TO15

Storage Location: J23
Sample: J1066-13
Cust #: SC-IA2-20180103

of Disposal:

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-OA-20180103
Client Name: HPR
Project Name: Stamps
Date: 1-3-18 Time: 0946
Analysis: TO15

Storage Location: J23
Sample: J1066-12
Cust #: SC-OA-20180103

of Disposal:

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-IA1-20180103
Client Name: HPR
Project Name: Stamps
Date: 1-3-18 Time: 0940
Analysis: TO15

Storage Location: J23
Sample: J1066-11
Cust #: SC-IA1-20180103

Disposal:

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SC-042-20180103

Client Name : HDR

Project Name: grcnps

Date: 1-3-18 Time: 1237 1457

Analysis: TO15

-30 -10

Storage Location: J23
Sample: J1066-01
Cust #: SC-042-20180103

...te of Disposal:

-5.5
0
10149
8172076

Appendix D

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

March 24, 2018

Barbara Firebaugh
HDR
16 Corporate Woods Blvd Suite 204
Albany, NY 12211

RE: Validation of the Former Stamp's Cleaners Site Analytical Data
NYSDEC Project No. D007625-37
Data Usability Summary Report (DUSR)
TAL SDG Nos. 480-129224-1, and 480-129737-1
Chemtech SDG No. I1066

Dear Mr. Starr:

Review has been completed for the data packages noted above, generated by TestAmerica Laboratories and Chemtech, that pertain to samples collected between 12/18/17 and 01/03/18 at the Former Stamp's Cleaners site. Two soil samples, two aqueous samples, and field duplicates of both matrices were processed for TCL volatiles, TCL semivolatiles, Aroclor PCBs, TCL pesticides, and TAL metals. Four additional aqueous samples and four soil samples were processed for TCL volatiles. Twelve air samples and a field duplicate were collected in 6-L summa canister samples and processed for volatile analytes. The analytical methods that were utilized are those of the USEPA SW846 and TO-15.

The data packages submitted contain full deliverables for validation, and this DUSR is generated from review of the summary form information, with full validation review of sample raw data, and limited review of associated QC raw data. However, the reported summary forms have been reviewed for application of validation qualifiers, using guidance from the USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, the specific laboratory methodologies, and professional judgment. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Equipment, Preparation, and Calibration Blanks
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Calibration/Low Level Standards
* ICP Serial Dilution
* Instrument MDLs
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

In summary, sample processing was primarily conducted in compliance with the analytical protocol requirements. Sample results are usable either as reported or with minor qualification or edit. However, it should be noted that the soil metals' data show a possible strong matrix effect on analyte recovery.

Representativeness, comparability, organic accuracy and precision evaluations, and data completeness are acceptable.

Copies of the validation qualifier definitions and client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also included with the submission are the client EDDs, with validation edits/qualifiers applied in red.

Chain-of-Custody and Sample Receipt

The canister IDs of two samples were clarified and corrected after laboratory receipt.

Strikeovers on the custody forms should have been dated and initialed.

Blind Field Duplicates

Blind field duplicate evaluations were performed on SC-SS2-20180103, SC4-8-10-20171218, and SC4-GW-20171218.

The correlations for the aqueous sample are within validation guidelines with the exception of that for iron. The results for iron in SC4-GW-20171218 and DUPE2-20171218 have been qualified as estimated in value.

The correlations for the organic analytes for the soil sample within validation guidelines. However there are significant variances for ten of the elements, with calcium concentrations differing by an order of magnitude and lead concentrations by a factor of almost four. Therefore, results for affected analytes calcium, cobalt, lead, magnesium, nickel, potassium, sodium, vanadium, zinc, and mercury in SC4-8-10-20171218 and DUPE1-20171218 have been qualified as estimated in value.

t-Butyl alcohol produced an outlying correlation in SC-SS2-20180103, and the result for that compound is therefore qualified as estimated in that parent sample and its duplicate SC-DUPE1-20180103.

The time of collection of the field duplicates should have been omitted or logged as 12:00 to keep the locations at which they were taken blind to the laboratory.

TCL Volatiles by EPA 82760C—Full Scan and SIM

Matrix spike/duplicate evaluations of SC3-8-10-20171218 show the following recoveries and correlations that fall outside the validation action limits, and results for the listed analytes are qualified as estimated in that parent sample:

Parent Sample	Analyte	Outlying % Recoveries
SC3-8-10-21071218	1,1,2,2-tetrachloroethane	71,78
	2-butanone	55,62

Matrix spikes of SC2-GW-20171218 show recoveries and correlations within validation guidelines.

Calibrations standards showed acceptable responses, with the following exceptions, the results for which are qualified as estimated in value in the indicated samples:

- Vinyl chloride and 1,1,-dichloroethene (21%D to 30%D) in samples TRIP-BLANK-1 and TRIP-BLANK-2

Blanks show no detection of analytes also detected in the samples. Surrogate and internal standard recoveries are within required ranges.

TCL Semivolatiles by EPA 8270C

Matrix spikes of SC3-8-10-20171218 and SC2-GW-20171218 show recoveries and correlations within validation guidelines.

Calibrations standards showed acceptable responses, with the following exceptions, the results for which are qualified as estimated in value in the indicated samples:

- n-nitrosodi-n-propylamine (23%D) SC3-8-10-20171218
- bis(2-chloroethyl)ether, n-nitroso-di-n-propylamine, isophorone, and caprolactum (23%D to 41%D) in DUPE1-20171218

Surrogate and internal standard recoveries are within required ranges. Blanks show no contamination.

TCL Pesticides by EPA8081B

The detection of 4,4'DDT in SC4-8-10-20171218 exhibits elevated dual column quantitative correlations and is qualified as tentative in identification and estimated in value ("NJ").

Matrix spikes of SC3-8-10-20171218 and SC2-GW-20171218 show recoveries and correlations within validation guidelines.

Instrument performance is compliant, and surrogate standard recoveries are within validation guidelines. Blanks show no contamination.

TAL Metals Analyses by EPA 6010C and 7470/7471

Matrix spike/duplicate evaluations of SC3-8-10-20171218 and SC2-GW-20171218 show the following recoveries and correlations that fall outside the validation action limits, and results for the listed elements are qualified as estimated in the indicated parent samples:

Parent Sample	Element	Outlying % Recoveries
SC3-8-10-20171218	antimony	43,47
	copper	70,72
	potassium	137,146

Parent Sample	Element	Outlying % Recoveries
SC2- GW-20171218	antimony	42,32
	beryllium	71,68
	cobalt	128,144
	lead	170,220
	nickel	165,203
	potassium	353,385
	selenium	73,69
	vanadium	136,151

The ICP serial dilution evaluations performed on SC3-8-10-20171218 and SC2-GW-20171218 exhibit correlations within the validation action limits, with the following exceptions, the results for which are qualified as estimated in the indicated parent sample:

Parent Sample	Element	%Difference
SC3-8-10-20171218	aluminum	18
	barium	19
	calcium	18
	chromium	19
	iron	16
	magnesium	20
	manganese	18
	potassium	17
	vanadium	16
	zinc	24
SC2-GW-20171218	aluminum	20
	calcium	26
	chromium	25
	iron	24
	magnesium	20
	manganese	28
	potassium	19
	sodium	17
	vanadium	24
	zinc	27

Instrument processing was compliant with analytical protocols and blanks show no detections above the reporting limits.

Volatiles in Air by EPA TO-15

Laboratory Control Samples show compliant recoveries, with the following exceptions, results for which are qualified in the indicated associated samples, with a possible low bias:

- t-butyl alcohol and acetone (67% and 62%) in SC-SG2-20180103 and SC-IA2-20180103
- dichlorodifluoromethane (63%) in SC-SG1-20180103, SC-SG4-20180103, SC-SG5-20180103, and SC-SG6-20180103

Due to presence in the associated method blanks, the detections in methylene chloride in all samples except SC-OA2-20180103, SC-SG3-20180103, and SC-SG6-20180103 are considered external contamination, and have been edited to reflect non-detection at either the reporting limits or the originally reported concentrations, whichever are greater. The concentrations of those three excepted samples are above the validation action levels, but should be regarded with caution as also possibly including contribution from contamination.

Results initially reported with the laboratory "E" flag are derived from the dilution analyses f the samples, thereby reflecting responses within the established linear range of the instrument.

Holding times and instrument tunes meet requirements. Surrogate and internal standard recoveries are acceptable.

Initial and continuing calibration standard responses were within validation guidelines, with all response factors (RRFs) above 0.05, linearity within the 30%RSD limit, and continuing calibration responses below 30%D, with the exception of those for dichlorodifluoromethane (38%RSD and 32%RSD) in the calibrations associated with all samples except SC-SG2-20180103 and SC-IA2-20180103. The results for that compound in the associated samples have been qualified as estimated in value, with a possible low bias.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Att: Validation Qualifier Definitions
Sample Identifications
Qualified Client EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

Sample Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129224-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-129224-1	SC2-9-20171218	Solid	12/18/17 10:05	12/20/17 01:00
480-129224-2	SC1-9-20171218	Solid	12/18/17 10:35	12/20/17 01:00
480-129224-3	SC3-8-10-20171218	Solid	12/18/17 11:30	12/20/17 01:00
480-129224-4	SC4-8-10-20171218	Solid	12/18/17 14:00	12/20/17 01:00
480-129224-5	DUPE1-20171218	Solid	12/18/17 14:00	12/20/17 01:00
480-129224-6	SC1-GW-20171218	Water	12/18/17 12:55	12/20/17 01:00
480-129224-7	SC4-GW-20171218	Water	12/18/17 14:50	12/20/17 01:00
480-129224-8	DUPE2-20171218	Water	12/18/17 14:50	12/20/17 01:00
480-129224-9	SC3-GW-20171218	Water	12/18/17 15:05	12/20/17 01:00
480-129224-10	SC2-GW-20171218	Water	12/18/17 14:20	12/20/17 01:00
480-129224-11	FB1-20171218	Water	12/18/17 15:20	12/20/17 01:00
480-129224-12	TRIP-BLANK-1	Water	12/18/17 00:00	12/20/17 01:00
480-129224-13	TRIP-BLANK-2	Water	12/18/17 00:00	12/20/17 01:00

Sample Summary

Client: HDR Inc
Project/Site: NYSDEC - Former Stamp's Cleaners

TestAmerica Job ID: 480-129737-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-129737-1	SC-5-1.5"-20180102	Solid	01/02/18 13:35	01/05/18 11:00
480-129737-2	SC-6-6"-20180102	Solid	01/02/18 14:30	01/05/18 11:00

2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
SC-OA2-20180103	J1066-01	TO-15					
SC-SG3-20180103	J1066-02	TO-15					
SC-SG2-20180103	J1066-03	TO-15					
SC-SG1-20180103	J1066-04	TO-15					
SC-SG4-20180103	J1066-05	TO-15					
SC-SG5-20180103	J1066-06	TO-15					
SC-SG6-20180103	J1066-07	TO-15					
SC-SS2-20180103	J1066-08	TO-15					
SC-SS1-20180103	J1066-09	TO-15					
SC-DUPE1-20180103	J1066-10	TO-15					
SC-IA1-20180103	J1066-11	TO-15					
SC-OA-20180103	J1066-12	TO-15					
SC-IA2-20180103	J1066-13	TO-15					

Appendix E

Photo Log

PHOTOGRAPHIC LOG

Client Name/Contract	Site Location:	NYSDEC Site No.
NYSDEC D007625	Former Stamps Cleaners	828197

Photo No.	Date:
1	12/18/17

Description:

GeoProbe 6610DT set up at SC-2.

Photo No.	Date:
2	12/18/17

Description:

Example of site sediment from Macrocore sampler. Location SC-4; Depth 8 to 11.5 ft bgs.

PHOTOGRAPHIC LOG

Client Name/Contract	Site Location:	NYSDEC Site No.
NYSDEC D007625	Former Stamps Cleaners	828197

Photo No.	Date:
3	12/19/17

Description:

SC-1 and SC-2 sampling points, along Jefferson Ave side (W) of the site.

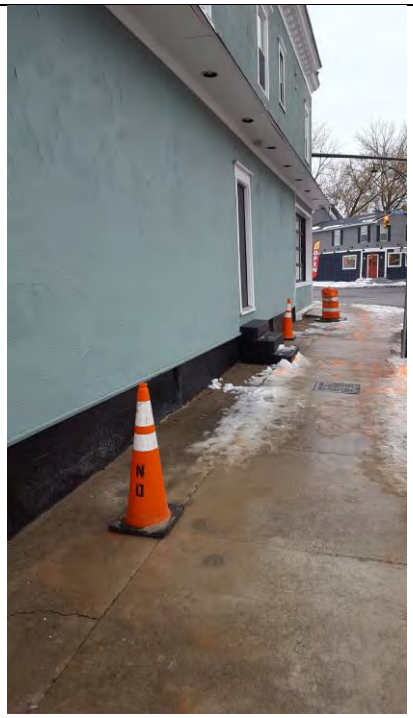
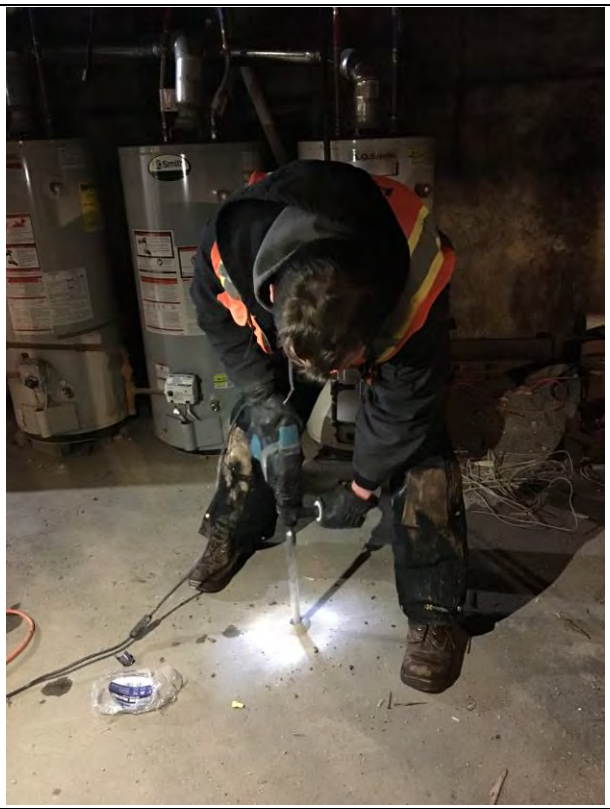


Photo No.	Date:
4	1/2/18

Description

Drilling sub-slab point SS2.



PHOTOGRAPHIC LOG

Client Name/Contract	Site Location:	NYSDEC Site No.
NYSDEC D007625	Former Stamps Cleaners	828197

Photo No.	Date:
5	1/2/18

Description:

Installation of SC-5 soil gas point.

Photo No.	Date:
6	1/3/18

Description:

Sampling set-up at SS2 including duplicate sample.