



CBS Corporation

Environmental Remediation
PNC Center
20 Stanwix Street, 10th Floor
Pittsburgh, PA 15222

April 7, 2010

William P. Murray, P.E.
Environmental Engineer I
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

**Re: Monthly Operation and Maintenance Report
NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Murray:

On behalf of the Respondents to the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8 (the "Order"), CBS Corporation (CBS) submits this monthly status report for operation and maintenance (O&M) activities at New York State Department of Environmental Conservation (NYSDEC) Site No. 9-15-066 in Cheektowaga, New York (the "Site"). Under an agreement among the Respondents, CBS is managing the Remedial Program pursuant to the Order. This report covers activities during March 2010 and transmits the discharge monitoring report for this reporting period.

1. Site Activities and Status

- A. On March 2, 2010, CBS submitted to NYSDEC a monthly report on the status of O&M activities at the Site for the February 2010 operating period. That status report also transmitted the discharge monitoring data for February 2010.
- B. The recovery and treatment system operated throughout March 2010.
- C. Conestoga-Rovers & Associates (CRA) conducted routine and non-routine O&M on behalf of CBS, and TestAmerica Laboratories, Inc. provided required analytical laboratory services.
- D. On March 22, 2010, CRA conducted the quarterly sampling at well MW-32.

2. Sampling Results and Other Site Data

- A. In March 2010, the groundwater system recovered and treated an estimated 53,000 gallons. The lower flow is in part due to the partial closure of the 001 portion of the groundwater collection system.¹
- B. Attachment A provides the discharge monitoring report for March 2010 based on the effluent sample collected on March 17, 2010, and Attachment B includes the analytical laboratory report for this effluent sample.
- C. In reviewing the treatment system effluent monitoring information, please note the following:
- The flow data are provided via on-site readings. The maximum daily flow was calculated from these data.
 - The pH data are provided via periodic on-site readings and laboratory analysis of the monthly effluent sample. Effluent pH data are reported only for measurements taken while the treatment pump is operating and the system is actively discharging.
 - The reported daily maximum values (pounds per day) are calculated using the maximum (interpolated) daily flow and the results of the monthly effluent monitoring, irrespective of whether the actual maximum daily flow occurred on the day of sampling.
- D. For the March 2010 reporting period, the effluent sampling results complied with all discharge limitations.
- E. Table 1 presents the results of influent sampling and includes the data from the most recent influent sample collected on March 17, 2010. With the partial closure of the 001 segment, this influent sample is a composite of the influent from the 002 and 003 portions of the system only. Attachment B includes the analytical laboratory report for this influent sample.
- F. Figure 1 shows the relationship between target volatile organic compound (VOC) concentrations over time in the system influent. Although the many contributing factors (*e.g.*, relative proportion of flow in each of the three segments of the collection systems, surface water inflows) result in variability in VOC concentrations, Figure 1 shows the overall downward trend in VOC concentrations in the system influent. This trend has continued in recent sampling even though the flow has been significantly reduced from the 001 portion of the collection system, *i.e.*, the portion of the system that has historically exhibited the lowest levels of VOCs.

¹ Based on additional information and recalculation, the estimated total discharge for February 2010 has been revised to 131,000 gallons from the 133,000 gallons as indicated in the February 2010 monthly status report.

- G. Table 2 presents the results of quarterly monitoring of well MW-32 located in Area P at the northern portion of the Site, including the most recent sample collected on March 22, 2010. Attachment C includes the analytical laboratory report for this monitoring well sample.
- H. Figure 2 shows the relationship between target VOC concentrations over time at well MW-32. As shown in Figure 1, total target VOC concentrations have significantly decreased at well MW-32 following the multiple rounds of in situ chemical oxidation treatment that were conducted after the source removal specified in the March 1995 Record of Decision (ROD) failed to result in low residual VOC concentrations at this well.

3. Upcoming Activities

- A. CBS will continue required O&M activities.
- B. With NYSDEC approval, CBS will complete the Phase 1 closure of the 002 system by filling and sealing manholes MH-002-09 and MH-002-10.
- C. After closing MH-002-09, and MH-002-10, CRA will conduct additional water level measurements, surface water monitoring, and groundwater monitoring per the *Revised Work Plan* (Rev. 1, February 7, 2008).

4. Operational Problems

- A. Previously reported operational problems associated with elevated pH, pH control, and hardness continue. These operational problems are expected to be largely resolved with the phased shutdown of the collection system and limitation of inflows to those associated with Sump 003.
- B. Previously reported operational problems associated system inflows are lessening with the minimal flows associated with Sump 001 now that the 001 portion of the groundwater collection system has been partially closed.
- C. The post-closure monitoring data indicate that the Phase 1 closure of the 001 groundwater collection system has addressed the previously observed high water levels at Sump 001, which had led to periodic overtopping of that manhole. The ongoing periodic overtopping at Sump 002 will be addressed through the partial closure of that portion of the groundwater collection system.
- D. The Phase 1 closure of the 002 system is also expected to reduce the conveyance of groundwater containing VOCs compounds via storm sewers

William P. Murray, P.E.

April 7, 2010

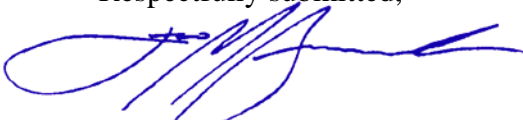
Page 4

installed by the Niagara Frontier Transportation Authority as part of airport development.

* * * *

We trust this submittal satisfies your requirements at this time. If you have questions regarding this status report, please contact me.

Respectfully submitted,



Leo M. Brausch
Consultant/Project Engineer

LMB:
Attachments

cc: K. P. Lynch, CRA
K. Minkel, NFTA

TABLES

Table 1
Summary of Treatment System Influent Monitoring Data
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date of Sampling	Outfall	Constituent Concentration (ug/L)						
		cis-1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl Chloride	Cadmium	Lead
08/21/00	Composite	200 U	200 U	200 U	3,100	200 U	1.5	NA
08/29/00	Composite	200 U	200 U	200 U	8,500	200 U	0.7	NA
09/06/00	Composite	200 U	200 U	200 U	4,100	200 U	0.7 U	NA
09/13/00	Composite	400 U	400 U	400 U	9,600	400 U	1.6	NA
09/20/00	Composite	54 J	100 U	100 U	2,500	100 U	0.6 U	NA
09/27/00	Composite	100 U	100 U	100 U	2,200	100 U	0.68 B	NA
10/04/00	Composite	60 J	100 U	100 U	2,500	100 U	0.69 B	NA
10/10/00	Composite	23 J	25 U	25 U	430	25 U	0.5 U	NA
03/29/01	Composite	9.1 J	10 U	1.4 J	16	10 U	1.5	2.5 U
06/26/01	001	25	4.5 U	0.9 J	37	4.5 U	448	NA
06/26/01	002	16	4.5 U	2.3 J	280	4.5 U	3.0 U	NA
06/26/01	003	510	4.5 U	4.5 J	1,700	4.5 U	3.0 U	NA
09/29/01	Comp - Perm	18	25 U	4 J	8.3 J	10 U	0.25 U	7.4
09/29/01	Comp - Temp	14 J	25 U	25 U	350	25 U	0.25 U	8.7
12/21/01	Composite	14	10 U	10 U	130	10 U	1.7	4.1 U
03/14/02	Composite	18	10 U	10 U	130	10 U	0.29	4.5
10/15/02	Composite	11.3	530	9.0	990	16	5 U	NA
12/15/02	Composite	7.3	19	0.16	46	1.3	8.4	50 U
03/15/03	Composite	7.8	14	1.0	29	NA	21	3 U
06/11/03	Composite	11.0	130	64	570	25 U	4.2	5.5
09/09/03	Composite	8.6	290	25 U	620	15	3.0	3.5
12/10/03	Composite	8.6	54	25 U	430	25 U	2.5	3.0
03/12/04	Composite	7.7	51	2.0 U	3.9	2.0 U	1.4	1.6
06/09/04	Composite	8.3	54	40 U	650	40 U	1.8	6.8
09/13/04	Composite	10.3	98	10 U	250	10 U	1.8	2.2
12/13/04	Composite	140	4.4 J	20 U	470	20 U	0.81 B	1.6 B

Table 1
Summary of Treatment System Influent Monitoring Data
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date of Sampling	Outfall	Constituent Concentration (ug/L)						
		cis-1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl Chloride	Cadmium	Lead
03/23/05	Composite	46	15 U	15 U	250	15 U	2.1 B	1.5 U
06/09/05	Composite	100	15 U	15 U	1,200	5.4 J	1.2 B	3.0 U
10/03/05	Composite	26	1.0 U	2.0	8.6	11	5.0 U	3.0 U
12/16/05	Composite	34	5.0 U	5.0 U	140	3.5 J	0.68 B	3.0 U
03/13/06	Composite	36	10 U	10 U	190	2.6 J	0.95 B	2.0 B
05/09/06	Composite	87	10 U	10 U	710	5.6 J	1.0 B	3.0 U
06/12/06	Composite	72	3.3 U	3.3 U	190	4.0 J	0.72 B	3.0 U
09/11/06	Composite	16	5.0 U	5.0 U	85	5 U	0.47 B	2.0 B
12/11/06	Composite	14	5.0 U	5.0 U	71	1.8 J	5.0 U	3.0 U
03/22/07	Composite	32	5.0 U	2.7 J	130	4.6 J	1.2 B	3.0 U
06/20/07	Composite	31	0.45 J	0.76 J	210	1.7 J	0.44 B	3.0 U
09/17/07	Composite	89	20 U	20 U	730	7.0 J	5.0 U	3.0 U
12/18/07	Composite	18	2.0 U	2.0 U	90	1.5 J	5.0 U	3.0 U
03/19/08	Composite	12	0.38 J	1.0 J	120	1.2 J	5.0 U	3.0 U
06/17/08	Composite	20	4.0 U	4.0 U	190	2.3 J	5.0 U	3.0 U
09/18/08	Composite	20	2.0 U	2.0 U	180	4.4	5.0 U	3.0 U
12/18/08	Composite	19	0.17 J	2.0 U	98	2.8	5.0 U	3.0 U
03/30/09	Composite	5.2	1.0 U	1.0 U	73	1.6	5.0 U	3.0 U
06/12/09	Composite	18	5.0 U	1.1 J	180	2.5 J	5.0 U	3.0 U
09/30/09	Composite	43	10 U	10 U	310	4.4 J	0.85 B	3.0 U
12/29/09	Composite (002 & 003)	19	2.0 U	0.51 J	120	1.1 J	0.56 B	1.9 B
03/17/10	Composite (002 & 003)	13	0.29 J	0.56 J	93	2.2	5.0 U	1.8 B

Table 1
Summary of Treatment System Influent Monitoring Data
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Data Legend:

"NA" - indicates not analyzed

Detections and estimated values are in **bold-face** type.

Organic data qualifiers:

U - not detected at indicated detection limit

J - estimated concentration below reporting limit but above minimum detection limit.

Inorganic data qualifiers:

U - not detected at indicated detection limit

B - detected concentration below contract required detection limit but above instrument detection limit.

Table 2
Summary of Groundwater Monitoring Data, Well MW-32
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date of Sampling	Constituent Concentration (ug/L)						
	cis-1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl Chloride	Cadmium	Lead
05/11/00	1,500	5 U	5 U	3,700	540	1.0 U	3.0 U
12/01/00	2,200	5 U	5 U	1,200	110	1.0 U	10 U
12/01/00 (Dup)	2,300	10 U	10 U	1,900	230 J	NA	NA
03/30/01	1,600	100 U	100 U	650	340	0.41 U	2.47 U
03/30/01 (Dup)	1,500	100 U	100 U	610	310	0.41 U	2.47 U
06/21/01	2,800	250 U	250 U	4,100	890	0.85 U	1.21 U
06/21/01 (Dup)	2,700	250 U	250 U	4,000	830	0.85 U	1.21 U
09/13/01	4,000	250 U	250 U	2,900	1,000	0.70 B	2.1 U
09/13/01 (Dup)	4,100	250 U	250 U	2,800	1,100	0.83 B	2.8 U
12/13/01	2,300	200 U	200 U	2,500	590	0.44 U	3.7 U
12/31/01 (Dup)	2,200	200 U	200 U	2,400	560	0.44 U	2.0 U
03/14/02	560	250 U	250 U	730	98	0.17 U	2.03 U
03/14/02 (Dup)	570	250 U	250 U	710	100	0.17 U	2.03 U
07/10/02	1,200	NA	NA	2,000	190	NA	NA
12/31/02	480	NA	50 U	530	66	0.34 B	4.9
12/31/02 (Dup)	510	NA	50 U	580	77	0.29 U	4.7
03/29/03	1,000	80 U	80 U	740	150	5.0 U	3.0 U
06/17/03	1,100	200 U	200 U	2,400	130 J	0.34 B	4.9
06/17/03 (Dup)	1,100	100 U	100 U	1,700	110	5.0 U	3.0 U
09/26/03	2,800	100 U	100 U	8,100	310 J	5.0 U	3.0 U
12/22/03	1,000	100 U	100 U	1,300	97 J	0.38 U	1.1 B
03/29/04	460	10 U	10 U	570	20 J	0.37 U	1.4 U
06/30/04	620	200 U	200 U	1,900	200 U	0.29 U	1.5 U
09/13/04	2,100	200 U	200 U	2,900	130 J	5.0 U	1.8 B
12/17/04	640	10 U	10 U	420	45	5.0 U	3.0 U
12/17/04 (Dup)	760	50 U	50 U	790	50 J	5.0 U	2.3 B
03/31/05	570	50 U	50 U	680	49 J	5.0 U	3.0 U
06/22/05	540	10 U	10 U	810	100	5.0 U	3.0 U
06/22/05 (Dup)	1,100	100 U	100 U	880	140	5.0 U	3.0 U
09/09/05	1,400	330 U	330 U	1,700	96 J	5.0 U	3.0 U
12/14/05	900	10 U	10 U	700	56	5.0 U	3.0 U
12/14/05 (Dup)	1,200	100 U	100 U	750	68 J	5.0 U	3.0 U

Table 2
Summary of Groundwater Monitoring Data, Well MW-32
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Date of Sampling	Constituent Concentration (ug/L)						
	cis-1,2-dichloroethylene	Toluene	1,1,1-trichloroethane	Trichloroethylene	Vinyl Chloride	Cadmium	Lead
03/23/06	350	30 U	30 U	290	36	5.0 U	3.0 U
06/13/06	410	50 U	50 U	440	13 J	5.0 U	3.0 U
06/13/06 (Dup)	540	50 U	50 U	880	51	5.0 U	3.0 U
09/11/06	1,400	150 U	150 U	2,000	85 J	0.34 B	4.9
12/12/06	290	40 U	40 U	67	42 J	5.0 U	1.2 B
12/12/06 (Dup)	590	50 U	50 U	240	75 J	5.0 U	3.1
03/27/07	380	10 U	10 U	22	36 J	5.0 U	2.4 B
06/26/07	1,700	150 U	150 U	23 J	710	5.0 U	1.5 B
09/17/07	2,500	150 U	150 U	410	140	5.0 U	1.5 B
12/19/07	1,500	150 U	150 U	160	200	0.29 B	3.0
12/19/07 (Dup)	1,500	100 U	100 U	170	200	5.0 U	3.0 U
03/19/08	530	40 U	40 U	110	53	0.38 B	2.2 B
06/26/08	520	50 U	50 U	310	27 J	5.0 U	1.4 U
09/30/08	420	50 U	50 U	120	48	5.0 U	1.4 U
12/11/08	200	20 U	20 U	200	9.9 J	5.0 U	5.4
12/11/08 (Dup)	170	10 U	10 U	180	9.0 J	5.0 U	3.5
03/05/09	280	20 U	20 U	170	25	0.090 B	4.1
06/22/09	430	40 U	40 U	590	22 J	5.0 U	1.6 B
06/22/09 (Dup)	410	40 U	40 U	540	24 J	5.0 U	3.4
09/10/09	320	25 U	25 U	330	26	5.0 U	3.8
12/07/09	390	50 U	50 U	370	17 J	5.0 U	2.5 B
12/07/09 (Dup)	380	50 U	50 U	370	16 J	5.0 U	1.1 B
03/22/10	360	25 U	25 U	160	25 J	5.0 U	3.1

Data Legend:

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Detections and estimated values are in **bold-face** type.

Organic data qualifiers:

U - not detected at indicated reporting limit

J - estimated concentration

Inorganic data qualifiers:

U - not detected at indicated detection limit

B - detected concentration below contract required detection limit but above instrument detection limit.

FIGURES

Figure 1: Total Target VOCs in Treatment System Influent

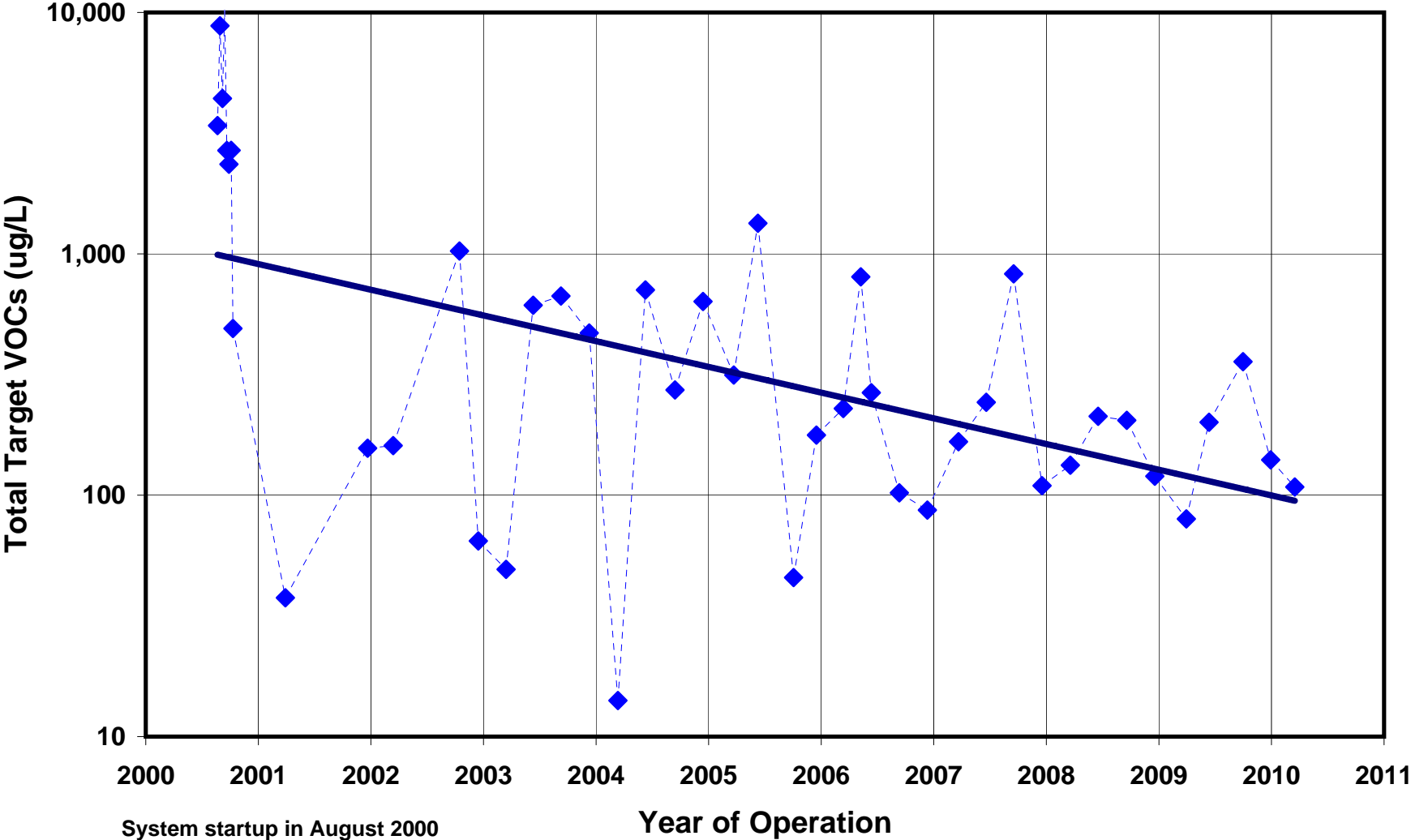
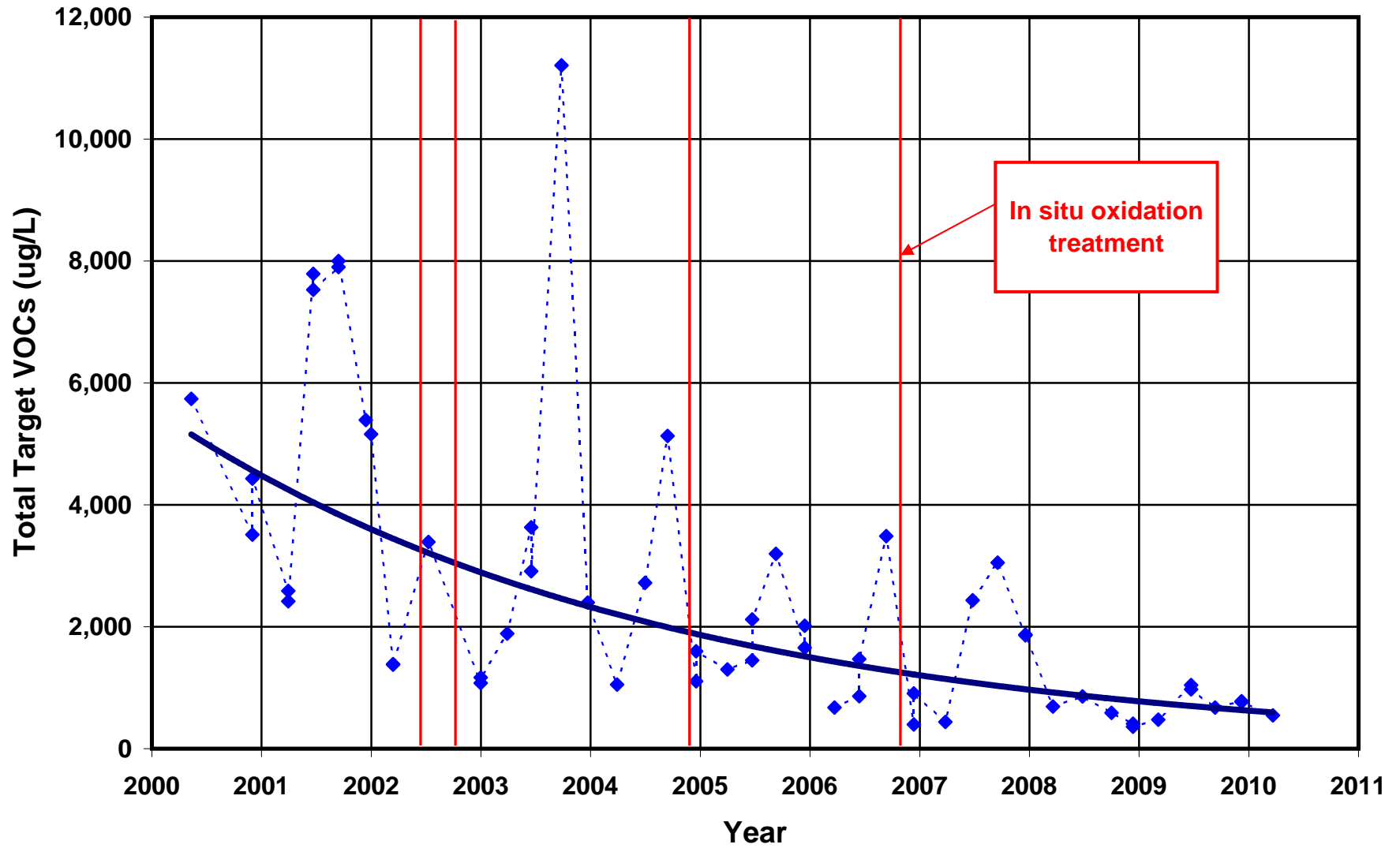


Figure 2: Total Target VOCs at MW-32



ATTACHMENT A
DISCHARGE MONITORING REPORT
MARCH 2010

Discharge Monitoring Data
Outfall 001 - Treated Groundwater Remediation Discharge
NYSDEC Site No. 9-15-006
Cheektowaga, New York

Reporting Month & Year **Mar-10**

Parameter		Daily Minimum	Daily Maximum	Units	Daily Maximum (lbs/day)	Measurement Frequency	Sample Type
Flow	Monitoring Result		2,437	gpd		Continuous	Meter
	Discharge Limitation		28,800	gpd		Continuous	Meter
pH	Monitoring Result	6.58	7.53	s.u.		6	Grab
	Discharge Limitation	6.5	8.5	s.u.		Weekly	Grab
Total suspended solids	Monitoring Result		< 4.0	mg/L	< 0.1	1	Grab
	Discharge Limitation		20	mg/L		Monthly	Grab
Toluene	Monitoring Result		< 1.0	ug/L	< 0.00002	1	Grab
	Discharge Limitation		5	ug/L		Monthly	Grab
Methylene chloride	Monitoring Result		< 1.0	ug/L	< 0.00002	1	Grab
	Discharge Limitation		10	ug/L		Monthly	Grab
1,2-dichlorobenzene	Monitoring Result		< 1.0	ug/L	< 0.00002	1	Grab
	Discharge Limitation		5	ug/L		Monthly	Grab
cis-1,2-dichloroethylene	Monitoring Result		< 1.0	ug/L	< 0.00002	1	Grab
	Discharge Limitation		10	ug/L		Monthly	Grab
Trichloroethylene	Monitoring Result		< 1.0	ug/L	< 0.00002	1	Grab
	Discharge Limitation		10	ug/L		Monthly	Grab
Tetrachloroethylene	Monitoring Result		< 1.0	ug/L	< 0.00002	1	Grab
	Discharge Limitation		50	ug/L		Monthly	Grab
Cadmium	Monitoring Result		< 0.15	ug/L	< 0.000003	1	Grab
	Discharge Limitation		3	ug/L		Monthly	Grab
Chromium	Monitoring Result		< 5.0	ug/L	< 0.0001	1	Grab
	Discharge Limitation		99	ug/L		Monthly	Grab

ATTACHMENT B
ANALYTICAL LABORATORY REPORT
INFLUENT AND EFFLUENT SAMPLING

ANALYTICAL REPORT

PROJECT NO. LEO BRAUSCH BUF


Leo Brausch Buffalo Airport

Lot #: C0C180542

Leo Brausch

Leo Brausch Consulting
131 Wedgewood Drive
Gibsonia, PA 15044

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

March 24, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
NFESC US Dept of Agriculture Arkansas	NA (#P330-07-00101) (#88-0690)	NAVY	X
		Foreign Soil Import Permit	X
California – NELAC	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida – NELAC	(#E871008)	WW	X
		HW	X
Illinois – NELAC	(#002064)	WW	X
		HW	X
Kansas – NELAC	(#E-10350)	WW	X
		HW	X
Louisiana – NELAC	(#04041)	WW	X
		HW	X
New Hampshire – NELAC	(#203009-B)	WW	X
New Jersey – NELAC	(PA-005)	-	-
		WW	X
New York – NELAC	(#11182)	HW	X
		WW	X
North Carolina	(#434)	WW	X
		HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014002)	WW	X
		HW	X
Utah – NELAC	(STLP)	WW	X
		HW	X
West Virginia	(#142)	WW	X
		HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 3/10/2010 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE

Leo Brausch Consulting

Lot # C0C180542

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on March 18, 2010. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

TestAmerica's North Canton laboratory performed the 624 analysis. All results are included in the report.

The method blank had methylene chloride detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had the same compounds detected had the result flagged with a "B" qualifier.

Metals:

There were no problems associated with the analysis.

General Chemistry:

pH is a field parameter. Laboratory pH analysis was completed at the request of the client.

METHODS SUMMARY

C0C180542

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
pH (Electrometric)	SM20 4500-H+B	SM20 4500-H B
Purgeables	CFR136A 624	SW846 5030B
Total Suspended Solids SM 2540 D	SM20 2540D	SM20 2540D
Trace Inductively Coupled Plasma (ICP) Metals	MCAWW 200.7	MCAWW 200.7

References:

CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."

SAMPLE SUMMARY

C0C180542

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LWT87	001	EFF0310	03/17/10	09:00
LWT9F	002	IFF0310	03/17/10	09:05

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Leo Brausch Consulting

Client Sample ID: EFF0310

GC/MS Volatiles

Lot-Sample #...: C0C180542-001 Work Order #...: LWT871AD Matrix.....: WATER
Date Sampled...: 03/17/10 Date Received..: 03/18/10 MS Run #.....: 0082177
Prep Date.....: 03/23/10 Analysis Date..: 03/23/10
Prep Batch #...: 0082277 Analysis Time..: 00:59
Dilution Factor: 1

Method.....: CFR136A 624

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
Methylene chloride	ND	1.0	ug/L	0.33
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
Trichloroethene	ND	1.0	ug/L	0.17
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
1,2-Dichloroethane-d4	115	(80 - 125)		
Toluene-d8	105	(84 - 110)		
Bromofluorobenzene	91	(81 - 112)		

Leo Brausch Consulting

Client Sample ID: IFF0310

GC/MS Volatiles

Lot-Sample #...: C0C180542-002 Work Order #...: LWT9F1AE Matrix.....: WATER
 Date Sampled...: 03/17/10 Date Received...: 03/18/10 MS Run #.....: 0082177
 Prep Date.....: 03/23/10 Analysis Date...: 03/23/10
 Prep Batch #...: 0082277 Analysis Time...: 01:23
 Dilution Factor: 1
 Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
cis-1,2-Dichloroethene	13	1.0	ug/L	0.17
Methylene chloride	ND	1.0	ug/L	0.33
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	0.29 J	1.0	ug/L	0.13
Trichloroethene	93	1.0	ug/L	0.17
1,1,1-Trichloroethane	0.56 J	1.0	ug/L	0.22
Vinyl chloride	2.2	1.0	ug/L	0.22

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
1,2-Dichloroethane-d4	112	(80 - 125)
Toluene-d8	110	(84 - 110)
Bromofluorobenzene	94	(81 - 112)

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C0C180542 Work Order #...: LW1J91AA Matrix.....: WATER
 MB Lot-Sample #: A0C230000-277
 Prep Date.....: 03/22/10 Analysis Time...: 17:29
 Analysis Date...: 03/22/10 Prep Batch #...: 0082277
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2-Dichlorobenzene	ND	1.0	ug/L	CFR136A 624
cis-1,2-Dichloroethene	ND	1.0	ug/L	CFR136A 624
Methylene chloride	0.41 J	1.0	ug/L	CFR136A 624
Tetrachloroethene	ND	1.0	ug/L	CFR136A 624
Toluene	ND	1.0	ug/L	CFR136A 624
Trichloroethene	ND	1.0	ug/L	CFR136A 624
1,1,1-Trichloroethane	ND	1.0	ug/L	CFR136A 624
Vinyl chloride	ND	1.0	ug/L	CFR136A 624

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
1,2-Dichloroethane-d4	113	(80 - 125)
Toluene-d8	108	(84 - 110)
Bromofluorobenzene	93	(81 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0C180542 Work Order #...: LW1J91AC Matrix.....: WATER
 LCS Lot-Sample#: A0C230000-277
 Prep Date.....: 03/22/10 Analysis Date...: 03/22/10
 Prep Batch #...: 0082277 Analysis Time...: 17:07
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
1,2-Dichlorobenzene	90	(18 - 190)	CFR136A 624
Methylene chloride	93	(10 - 221)	CFR136A 624
Tetrachloroethene	96	(64 - 148)	CFR136A 624
Toluene	88	(47 - 150)	CFR136A 624
Trichloroethene	107	(71 - 157)	CFR136A 624
Benzene	94	(37 - 151)	CFR136A 624
Bromodichloromethane	107	(35 - 155)	CFR136A 624
Bromoform	84	(45 - 169)	CFR136A 624
Bromomethane	73	(10 - 242)	CFR136A 624
Carbon tetrachloride	99	(70 - 140)	CFR136A 624
Chlorobenzene	89	(37 - 160)	CFR136A 624
Chloroethane	65	(14 - 230)	CFR136A 624
2-Chloroethyl vinyl ether	79	(10 - 305)	CFR136A 624
Chloroform	102	(51 - 138)	CFR136A 624
Chloromethane	116	(10 - 273)	CFR136A 624
Dibromochloromethane	87	(53 - 149)	CFR136A 624
1,3-Dichlorobenzene	84	(59 - 156)	CFR136A 624
1,4-Dichlorobenzene	83	(18 - 190)	CFR136A 624
1,1-Dichloroethane	102	(59 - 155)	CFR136A 624
1,2-Dichloroethane	100	(49 - 155)	CFR136A 624
1,1-Dichloroethene	113	(10 - 234)	CFR136A 624
trans-1,2-Dichloroethene	99	(54 - 156)	CFR136A 624
1,2-Dichloropropane	92	(10 - 210)	CFR136A 624
cis-1,3-Dichloropropene	83	(10 - 227)	CFR136A 624
trans-1,3-Dichloropropene	67	(17 - 183)	CFR136A 624
Ethylbenzene	84	(37 - 162)	CFR136A 624
1,1,2,2-Tetrachloroethane	76	(46 - 157)	CFR136A 624
1,1,2-Trichloroethane	88	(52 - 150)	CFR136A 624
Trichlorofluoromethane	111	(17 - 181)	CFR136A 624
1,1,1-Trichloroethane	90	(52 - 162)	CFR136A 624
Vinyl chloride	89	(10 - 251)	CFR136A 624

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0C180542 Work Order #...: LW1J91AC Matrix.....: WATER
LCS Lot-Sample#: A0C230000-277

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
1,2-Dichloroethane-d4	118	(80 - 125)
Toluene-d8	109	(84 - 110)
Bromofluorobenzene	99	(81 - 112)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Lot-Sample #...: C0C180542 Work Order #...: LWW2R1D9 Matrix.....: WATER
 MS Lot-Sample #: A0C190554-001
 Date Sampled...: 03/19/10 Date Received...: 03/19/10
 Prep Date.....: 03/23/10 Analysis Date...: 03/23/10
 Prep Batch #...: 0082277 MS Run #.....: 0082177
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
1,2-Dichlorobenzene	89 a	(90 - 115)	CFR136A 624
Methylene chloride	87	(78 - 131)	CFR136A 624
Tetrachloroethene	101	(81 - 112)	CFR136A 624
Toluene	92	(87 - 112)	CFR136A 624
Trichloroethene	109	(85 - 114)	CFR136A 624
Benzene	95	(90 - 114)	CFR136A 624
Bromodichloromethane	90	(78 - 123)	CFR136A 624
Bromoform	66	(40 - 141)	CFR136A 624
Bromomethane	73	(42 - 160)	CFR136A 624
Carbon tetrachloride	77	(61 - 129)	CFR136A 624
Chlorobenzene	94	(90 - 113)	CFR136A 624
Chloroethane	72	(56 - 133)	CFR136A 624
2-Chloroethyl vinyl ether	0.0 a	(10 - 185)	CFR136A 624
Chloroform	103	(90 - 118)	CFR136A 624
Chloromethane	107	(37 - 127)	CFR136A 624
Dibromochloromethane	69	(65 - 123)	CFR136A 624
1,3-Dichlorobenzene	85 a	(90 - 111)	CFR136A 624
1,4-Dichlorobenzene	82 a	(90 - 112)	CFR136A 624
1,1-Dichloroethane	103	(90 - 114)	CFR136A 624
1,2-Dichloroethane	102	(90 - 123)	CFR136A 624
1,1-Dichloroethene	115	(83 - 129)	CFR136A 624
trans-1,2-Dichloroethene	100	(85 - 116)	CFR136A 624
1,2-Dichloropropane	94	(87 - 119)	CFR136A 624
cis-1,3-Dichloropropene	66 a	(77 - 115)	CFR136A 624
trans-1,3-Dichloropropene	52 a	(71 - 114)	CFR136A 624
Ethylbenzene	87 a	(88 - 111)	CFR136A 624
1,1,2,2-Tetrachloroethane	77	(77 - 133)	CFR136A 624
1,1,2-Trichloroethane	95	(89 - 123)	CFR136A 624
Trichlorofluoromethane	108	(62 - 110)	CFR136A 624
1,1,1-Trichloroethane	85	(82 - 119)	CFR136A 624
Vinyl chloride	92	(50 - 119)	CFR136A 624

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
1,2-Dichloroethane-d4	112	(80 - 125)
Toluene-d8	108	(84 - 110)
Bromofluorobenzene	102	(81 - 112)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Lot-Sample #...: C0C180542

Work Order #...: LWW2R1D9

Matrix.....: WATER

MS Lot-Sample #: A0C190554-001

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Leo Brausch Consulting

Client Sample ID: EFF0310

TOTAL Metals

Lot-Sample #...: C0C180542-001
Date Sampled...: 03/17/10

Date Received...: 03/18/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #...: 0079041						
Cadmium	ND	5.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWT871AA
		Dilution Factor: 1		Analysis Time..: 08:44	MS Run #.....: 0079027	
		MDL.....: 0.15				
Chromium	ND	5.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWT871AC
		Dilution Factor: 1		Analysis Time..: 08:44	MS Run #.....: 0079027	
		MDL.....: 0.51				

Leo Brausch Consulting

Client Sample ID: IFF0310

TOTAL Metals

Lot-Sample #...: C0C180542-002

Matrix.....: WATER

Date Sampled...: 03/17/10

Date Received...: 03/18/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #...: 0079041						
Cadmium	ND	5.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWT9F1AA
		Dilution Factor: 1		Analysis Time..: 08:55	MS Run #.....: 0079027	
		MDL.....: 0.15				
Chromium	9.3	5.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWT9F1AD
		Dilution Factor: 1		Analysis Time..: 08:55	MS Run #.....: 0079027	
		MDL.....: 0.51				
Lead	1.8 B	3.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWT9F1AC
		Dilution Factor: 1		Analysis Time..: 08:55	MS Run #.....: 0079027	
		MDL.....: 1.2				

NOTE(S):

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C0C180542

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
MB Lot-Sample #: C0C200000-041 Prep Batch #...: 0079041						
Cadmium	ND	5.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWXEF1AX
		Dilution Factor: 1				
		Analysis Time..: 07:49				
Chromium	ND	5.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWXEF1A0
		Dilution Factor: 1				
		Analysis Time..: 07:49				
Lead	ND	3.0	ug/L	MCAWW 200.7	03/20-03/23/10	LWXEF1AC
		Dilution Factor: 1				
		Analysis Time..: 07:49				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0C180542

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: C0C200000-041 Prep Batch #...: 0079041					
Lead	105	(85 - 115)	MCAWW 200.7	03/20-03/23/10	LWXEF1AJ
		Dilution Factor: 1		Analysis Time..: 07:55	
Cadmium	101	(85 - 115)	MCAWW 200.7	03/20-03/23/10	LWXEF1A3
		Dilution Factor: 1		Analysis Time..: 07:55	
Chromium	103	(85 - 115)	MCAWW 200.7	03/20-03/23/10	LWXEF1A4
		Dilution Factor: 1		Analysis Time..: 07:55	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0C180542

Matrix.....: WATER

Date Sampled...: 03/17/10

Date Received...: 03/18/10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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MS Lot-Sample #: C0C180514-001 Prep Batch #...: 0079041

Lead	105	(70 - 130)			MCAWW 200.7	03/20-03/23/10	LWT4C1AN
	105	(70 - 130)	0.61	(0-20)	MCAWW 200.7	03/20-03/23/10	LWT4C1AP

Dilution Factor: 1

Analysis Time..: 08:33

MS Run #.....: 0079027

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Leo Brausch Consulting

Client Sample ID: EFF0310

General Chemistry

Lot-Sample #...: C0C180542-001

Work Order #...: LWT87

Matrix.....: WATER

Date Sampled...: 03/17/10

Date Received..: 03/18/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	6.8	--	--	SM20 4500-H+B	03/20/10	0079023
		Dilution Factor: 1		Analysis Time..: 10:04	MS Run #.....: 0079021	
		MDL.....: 0.0				
Total Suspended Solids	ND	4.0	mg/L	SM20 2540D	03/22-03/23/10	0081032
		Dilution Factor: 1		Analysis Time..: 09:30	MS Run #.....: 0081022	
		MDL.....: 2.0				

Leo Brausch Consulting

Client Sample ID: IFF0310

General Chemistry

Lot-Sample #...: C0C180542-002

Work Order #...: LWT9F

Matrix.....: WATER

Date Sampled...: 03/17/10

Date Received..: 03/18/10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	10.5	--	--	SM20 4500-H+B	03/20/10	0079023
		Dilution Factor: 1		Analysis Time.: 10:08	MS Run #.....: 0079021	
		MDL.....: 0.0				

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C0C180542

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Total Suspended Solids	ND	4.0	mg/L	SM20 2540D	03/22-03/23/10	0081032
		Work Order #: LWXPF1AA		MB Lot-Sample #: C0C220000-032		
		Dilution Factor: 1				
		Analysis Time..: 09:30				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0C180542

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	100	(99 - 101)	Work Order #: LWW9D1AA SM20 4500-H+B Dilution Factor: 1	LCS Lot-Sample#: C0C200000-023 03/20/10 Analysis Time.: 10:02	0079023
Total Suspended Solids	86	(80 - 120)	Work Order #: LWXPF1AC SM20 2540D Dilution Factor: 1	LCS Lot-Sample#: C0C220000-032 03/22-03/23/10 Analysis Time.: 09:30	0081032

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0C180542

Work Order #...: LWT87-SMP
LWT87-DUP

Matrix.....: WATER

Date Sampled...: 03/17/10

Date Received..: 03/18/10

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH	6.8	6.8	--	0.44	(0-2.0)	SM20 4500-H+B	03/20/10	0079023
			Dilution Factor: 1		Analysis Time.: 10:04		MS Run Number.: 0079021	
						SD Lot-Sample #:	C0C180542-001	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C0C180542

Work Order #...: LWV09-SMP
LWV09-DUP

Matrix.....: WATER

Date Sampled...: 03/18/10

Date Received..: 03/19/10

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE RESULT</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD LIMIT</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Suspended Solids	94.8	96.4	mg/L	1.7	(0-20)	SM20 2540D	03/22-03/23/10	0081032
			Dilution Factor: 1			Analysis Time.: 09:30	MS Run Number.: 0081022	
							SD Lot-Sample #: C0C190419-001	

ATTACHMENT C
ANALYTICAL LABORATORY REPORT
WELL MW-32 QUARTERLY MONITORING
MARCH 2010

ANALYTICAL REPORT

PROJECT NO. LEO BRAUSCH BUF

Leo Brausch Buffalo Airport

Lot #: C0C230555

Leo Brausch

Leo Brausch Consulting
131 Wedgewood Drive
Gibsonia, PA 15044

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber
Project Manager

March 30, 2010



NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

Certifying State/Program	Certificate #	Program Types	TestAmerica
NFESC	NA	NAVY	X
US Dept of Agriculture	(#P330-07-00101)	Foreign Soil Import Permit	X
Arkansas	(#88-0690)	WW	X
		HW	X
California – NELAC	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida – NELAC	(#E871008)	WW	X
		HW	X
Illinois – NELAC	(#002064)	WW	X
		HW	X
Kansas – NELAC	(#E-10350)	WW	X
		HW	X
Louisiana – NELAC	(#04041)	WW	X
		HW	X
New Hampshire – NELAC	(#203009-B)	WW	X
		–	–
New Jersey – NELAC	(PA-005)	WW	X
		HW	X
New York – NELAC	(#11182)	WW	X
		HW	X
North Carolina	(#434)	WW	X
		HW	X
Pennsylvania - NELAC	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014002)	WW	X
		HW	X
Utah – NELAC	(STLP)	WW	X
		HW	X
West Virginia	(#142)	WW	X
		HW	X
Wisconsin	998027800	WW	X
		HW	X

The codes utilized for program types are described below:

- HW Hazardous Waste certification
- WW Non-potable Water and/or Wastewater certification
- X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 3/10/2010 C:\Documents and Settings\derubeis\My Documents\NELAC NARRATIVE Ptsburgh.doc

CASE NARRATIVE

Leo Brausch Consulting

Lot # C0C230555

Sample Receiving:

TestAmerica's Pittsburgh laboratory received samples on March 23, 2010. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.


GC/MS Volatiles:

Due to the concentration of target compounds detected, sample WG-18036-032210-001 was analyzed at a dilution.

Metals:

There were no problems associated with the analysis.

CHAIN OF CUSTODY RECORD

 CONESTOGA-ROVERS & ASSOCIATES N FALLS OFFICE		SHIPPED TO (Laboratory Name): TEST AMERICA PITTSBURGH		REFERENCE NUMBER: 18036-1031 VIACOM YALY GW SAMPLING	
SAMPLER'S SIGNATURE: <i>Shawn Gardner</i>		PRINTED NAME: SHAWN GARDNER		REMARKS	
SEQ. No.		SAMPLE No.			
DATE		TIME		PARAMETERS VOC METALS	
3/22/10		1115			
SAMPLE TYPE		No. of Containers		HEALTH/CHEMICAL HAZARDS	
WATER LAB WATER		4 2			
18036-032210-001		18036-032210		TOTAL NUMBER OF CONTAINERS 6	
TB-18036-032210		TB-18036-032210			
RELINQUISHED BY: <i>Shawn Gardner</i>		DATE: 3/22/10 TIME: 1226		RECEIVED BY: ①	
RELINQUISHED BY:		DATE: TIME:		RECEIVED BY: ②	
RELINQUISHED BY:		DATE: TIME:		RECEIVED BY: ③	
METHOD OF SHIPMENT: FED EX					
White Yellow Pink Goldenrod		SAMPLE TEAM: S GARDNER		RECEIVED FOR LABORATORY BY: <i>Shawn Gardner</i> DATE: 3-22-10 TIME: 0531	
WAY BILL No.					

METHODS SUMMARY

C0C230555

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
CLP - Volatile Organic Compounds (OLM04.2) Inductively Coupled Plasma	OCLP OLM04.2 ICLP ILM04.0/4.	OCLP OLM04.2 ICLP ILM04.0

References:

- ICLP USEPA Contract Laboratory Program Statement of Work for Inorganics Analysis, Multi-Media, Multi-Concentration.
- OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SAMPLE SUMMARY

C0C230555

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LW1X3	001	WG-18036-032210-001	03/22/10	11:15
LW10A	002	TB-18036-032210	03/22/10	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Leo Brausch Consulting

Client Sample ID: WG-18036-032210-001

GC/MS Volatiles

Lot-Sample #...: C0C230555-001 **Work Order #...**: LW1X31AA **Matrix.....**: WATER
Date Sampled...: 03/22/10 **Date Received..**: 03/23/10 **MS Run #.....**: 0084143
Prep Date.....: 03/25/10 **Analysis Date..**: 03/25/10
Prep Batch #...: 0084194 **Analysis Time..**: 11:06
Dilution Factor: 2.5
Method.....: OCLP OLM04.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Toluene	ND	25	ug/L	2.5
cis-1,2-Dichloroethene	360	25	ug/L	2.5
1,1,1-Trichloroethane	ND	25	ug/L	2.5
Trichloroethene	160	25	ug/L	2.5
Vinyl chloride	25	25	ug/L	2.5

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Toluene-d8	101	(88 - 110)
Bromofluorobenzene	95	(86 - 115)
1,2-Dichloroethane-d4	104	(76 - 114)

Leo Brausch Consulting

Client Sample ID: TB-18036-032210

GC/MS Volatiles

Lot-Sample #...: C0C230555-002 **Work Order #...**: LW10A1AA **Matrix.....**: WATER
Date Sampled...: 03/22/10 **Date Received..**: 03/23/10 **MS Run #.....**: 0084143
Prep Date.....: 03/25/10 **Analysis Date..**: 03/25/10
Prep Batch #...: 0084194 **Analysis Time..**: 10:39
Dilution Factor: 1
Method.....: OCLP OLM04.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Toluene	ND	10	ug/L	1.0
cis-1,2-Dichloroethene	ND	10	ug/L	1.0
1,1,1-Trichloroethane	ND	10	ug/L	1.0
Trichloroethene	ND	10	ug/L	1.0
Vinyl chloride	ND	10	ug/L	1.0

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Toluene-d8	104	(88 - 110)
Bromofluorobenzene	95	(86 - 115)
1,2-Dichloroethane-d4	109	(76 - 114)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C0C230555
MB Lot-Sample #: C0C250000-194
Analysis Date...: 03/25/10
Dilution Factor: 1

Work Order #...: LW4KE1AA
Prep Date.....: 03/25/10
Prep Batch #...: 0084194

Matrix.....: WATER
Analysis Time...: 09:43

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
cis-1,2-Dichloroethene	ND	10	ug/L	OCLP OLM04.2
Toluene	ND	10	ug/L	OCLP OLM04.2
1,1,1-Trichloroethane	ND	10	ug/L	OCLP OLM04.2
Trichloroethene	ND	10	ug/L	OCLP OLM04.2
Vinyl chloride	ND	10	ug/L	OCLP OLM04.2

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	103	(88 - 110)
Bromofluorobenzene	100	(86 - 115)
1,2-Dichloroethane-d4	106	(76 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0C230555 Work Order #...: LW4KE1AC Matrix.....: WATER
 LCS Lot-Sample#: C0C250000-194
 Prep Date.....: 03/25/10 Analysis Date...: 03/25/10
 Prep Batch #...: 0084194 Analysis Time...: 11:33
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Trichloroethene	101	(71 - 120)	OCLP OLM04.2
Toluene	105	(76 - 125)	OCLP OLM04.2
1,1-Dichloroethene	107	(61 - 145)	OCLP OLM04.2
Benzene	106	(76 - 127)	OCLP OLM04.2
Chlorobenzene	102	(75 - 130)	OCLP OLM04.2

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	103	(88 - 110)
Bromofluorobenzene	97	(86 - 115)
1,2-Dichloroethane-d4	108	(76 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C0C230555 Work Order #...: LW1X31AJ-MS Matrix.....: WATER
 MS Lot-Sample #: C0C230555-001 LW1X31AK-MSD
 Date Sampled...: 03/22/10 Date Received...: 03/23/10 MS Run #.....: 0084143
 Prep Date.....: 03/25/10 Analysis Date...: 03/25/10
 Prep Batch #...: 0084194 Analysis Time...: 11:58
 Dilution Factor: 2.5

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Trichloroethene	87	(71 - 120)			OCLP OLM04.2
	81	(71 - 120)	2.8	(0-14)	OCLP OLM04.2
Toluene	103	(76 - 125)			OCLP OLM04.2
	102	(76 - 125)	1.5	(0-13)	OCLP OLM04.2
1,1-Dichloroethene	104	(61 - 145)			OCLP OLM04.2
	105	(61 - 145)	0.91	(0-14)	OCLP OLM04.2
Benzene	104	(76 - 127)			OCLP OLM04.2
	102	(76 - 127)	1.6	(0-11)	OCLP OLM04.2
Chlorobenzene	100	(75 - 130)			OCLP OLM04.2
	98	(75 - 130)	2.1	(0-13)	OCLP OLM04.2

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	104	(88 - 110)
	103	(88 - 110)
Bromofluorobenzene	98	(86 - 115)
	98	(86 - 115)
1,2-Dichloroethane-d4	111	(76 - 114)
	112	(76 - 114)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

Leo Brausch Consulting

Client Sample ID: WG-18036-032210-001

TOTAL Metals

Lot-Sample #...: C0C230555-001
Date Sampled...: 03/22/10

Date Received...: 03/23/10

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>	<u>PREPARATION-</u>	<u>WORK</u>
		<u>LIMIT</u>	<u>UNITS</u>		<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Prep Batch #...: 0083401						
Cadmium	ND	5	ug/L	ICLP ILM04.0/4.1	03/24-03/29/10	LW1X31AC
		Dilution Factor: 1		Analysis Time..: 07:41	MS Run #.....: 0083242	
		MDL.....: 0.10				
Lead	3.1	3	ug/L	ICLP ILM04.0/4.1	03/24-03/29/10	LW1X31AD
		Dilution Factor: 1		Analysis Time..: 07:41	MS Run #.....: 0083242	
		MDL.....: 1.5				

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C0C230555

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK</u> <u>ORDER #</u>
MB Lot-Sample #: C0C240000-401 Prep Batch #... : 0083401						
Cadmium	ND	5.0	ug/L	ICLP ILM04.0/4.1	03/24-03/29/10	LW3Q01AA
		Dilution Factor: 1				
		Analysis Time..: 07:32				
Lead	ND	3.0	ug/L	ICLP ILM04.0/4.1	03/24-03/29/10	LW3Q01AC
		Dilution Factor: 1				
		Analysis Time..: 07:32				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0C230555

Matrix.....: WATER

<u>PARAMETER</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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LCS Lot-Sample#: C0C240000-401 Prep Batch #...: 0083401

Cadmium	100	(80 - 120)	ICLP ILM04.0/4.1	03/24-03/29/10	LW3Q01AD
		Dilution Factor: 1		Analysis Time..: 07:37	

Lead	103	(80 - 120)	ICLP ILM04.0/4.1	03/24-03/29/10	LW3Q01AE
		Dilution Factor: 1		Analysis Time..: 07:37	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C0C230555

Matrix.....: WATER

Date Sampled...: 03/22/10

Date Received...: 03/23/10

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
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MS Lot-Sample #: C0C230555-001 Prep Batch #...: 0083401

Cadmium	94	(75 - 125)	ICLP ILM04.0/4.1	03/24-03/29/10	LW1X31AE
			Dilution Factor: 1	Analysis Time..: 07:41	
			MS Run #.....: 0083242		

Lead	112	(75 - 125)	ICLP ILM04.0/4.1	03/24-03/29/10	LW1X31AF
			Dilution Factor: 1	Analysis Time..: 07:41	
			MS Run #.....: 0083242		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Client Lot #...: C0C230555

Work Order #...: LW1X3-SMP
LW1X3-DUP

Matrix.....: WATER

Date Sampled...: 03/22/10

Date Received..: 03/23/10

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u> <u>RESULT</u>	<u>UNITS</u>	<u>RPD</u> <u>RPD</u>	<u>LIMIT</u>	<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>PREP</u> <u>BATCH #</u>
Cadmium	ND	ND	ug/L	0	(0-20)	ICLP ILM04.0/4.1	03/24-03/29/10	0083401
			Dilution Factor: 1			Analysis Time.: 07:41	MS Run Number.: 0083242	
						SD Lot-Sample #: C0C230555-001		
Lead	3.1	3.3	ug/L	6.2	(0-20)	ICLP ILM04.0/4.1	03/24-03/29/10	0083401
			Dilution Factor: 1			Analysis Time.: 07:41	MS Run Number.: 0083242	
						SD Lot-Sample #: C0C230555-001		