

Viacom Inc.
11 Stanwix Street
Pittsburgh, PA 15222

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TJB [initials]
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Via Certified Mail – Return Receipt Requested
May 17, 2005

David S. Szymanski
Environmental Engineering Technician III
New York State Department of Environmental Conservation
Division of Environmental 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. Szymanski:

On behalf of the Respondents to the Order on Consent and Settlement Agreement (Index No. B9-0381-91-8) (the “Order”), Viacom Inc. (Viacom) submits this monthly report on the status of 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,¹ Viacom is managing the Remedial Program under the Order. This report covers activities during the period of April 1 through April 30, 2005 and transmits the discharge monitoring report for this reporting period.

1. Site Activities and Status

- A. On April 7, 2005, Viacom submitted to NYSDEC a monthly report on the status of both routine and non-routine O&M activities at the Site for the March 2005 operating period. That status report also transmitted the discharge monitoring data for March 2005.

¹ “Agreement for Cost Sharing, Joint Performance and Joint Defense Related to a Remedial Design and Remedial Action for the NYSDEC Inactive Hazardous Waste Disposal Site No. 9-15-066, Cheektowaga, NY,” effective January 5, 1999.

- B. Viacom reviewed with NYSDEC its response to Viacom's petition to terminate operation of the recovery and treatment system. Based on these discussions, Viacom plans to resubmit its plan for such termination.
- C. The recovery and treatment system operated throughout the April 2005 reporting period.
- D. Conestoga-Rovers & Associates (CRA) conducted routine O&M on behalf of Viacom, including monthly effluent sampling.

2. Sampling Results and Other Site Data

- A. In April 2005, the groundwater system recovered an estimated 284,811 gallons.
- B. Attachment A provides the discharge monitoring report for April 2005 based on the effluent sample collected on April 8, 2005.
- C. Attachment B provides the laboratory data report for the April 8, 2005 effluent sample.
- D. In reviewing the treatment system effluent monitoring information, please note the following:
 - The flow data are provided via on-site readings and calls into the Autodialer. The maximum daily flow was calculated from these data.
 - The pH data are provided via on-site readings, calls into the Autodialer, and laboratory analysis of the monthly effluent sample. 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 observed daily flow and the results of the monthly effluent monitoring, irrespective of whether the actual maximum daily flow occurred on the day of sampling.
- E. For the April 2005 reporting period, the effluent complied with all discharge limitations.
- F. Table 1 provides a summary of recent groundwater data at well MW-32, including the results from the sample collected on March 31, 2005. Attachment C provides the laboratory data for this latest groundwater sample.

- G. The most-recent groundwater data from well MW-32 reflect the increasing effectiveness of repeated in situ oxidation treatment at this location. No “rebound” occurred in the March 2005 sampling, the second sampling round following the October 2004 treatment, and these most-recent data continue to show a 75-percent reduction in total target VOCs as compared to the last pre-treatment sampling in September 2004 (Table 2).

3. Upcoming Activities

- A. Viacom will resubmit to NYSDEC its plan to terminate O&M of the recovery and treatment system.
- B. As part of system termination, Viacom will pursue with the Niagara Frontier Transportation Authority the practicability of placing a restrictive covenant on the site property that prohibits future on-site groundwater use as a water supply.
- C. CRA will continue routine operation of the recovery and treatment system until such time as NYSDEC concurs that the operation of this system can be terminated.
- D. As needed, Encotech, Inc. will conduct supplemental maintenance of the treatment facility focused on issues related to system sustainability and treatment efficiency.

4. Operational Problems

- A. In various areas, the collected groundwater exhibits a high hardness and pH that are likely related to the use of crushed concrete as fill in site redevelopment. When the influents from the three collection sumps are mixed, the high pH causes the hardness to precipitate as calcium and magnesium carbonate. This fine precipitate rapidly plugs filters and the activated carbon adsorbers, greatly increasing the level of effort required to operate the treatment system. Viacom is continuing to evaluate methods to control pH and address the high solids loading.
- B. In late April, very high water levels and inflow rates were observed at Sump 001. Viacom is investigating whether these observations reflect changes in perched groundwater conditions following runway construction in this portion of the site or are the result of a cross-connection of storm water drainage to the groundwater collection system.

David S. Szymanski

May 17, 2005

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

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Leo M. Brausch", with a large, sweeping flourish extending to the left.

Leo M. Brausch

Consultant/Project Engineer

LMB:

Attachments

cc: J. Crua, NYSDOH
K. Minkel, NFTA
K. Lynch, CRA

TABLES

Table 1
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 D	5 U	5 U	3,700 D	540 D	1.0 U	3.0 U
12/01/00	2,200	5 U	5 U	1,200 D	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

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

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
Evaluation of In Situ Oxidation Treatment
Well MW-32, Area P
NYSDEC Site No. 9-15-066, Cheektowaga, New York

Treatment Number	Date of Treatment	Total Target VOC Concentration (ug/L)		
		Date	Description	Value
1	05/31/02	03/14/02	Pre-Treatment	1,384
		07/10/02	1st Post-Treatment	3,390
2	08/28/02	07/10/02	Pre-Treatment	3,390
		12/31/02	1st Post-Treatment	1,122
		03/29/03	2nd Post-Treatment	1,890
		06/17/03	3rd Post-Treatment	3,270
3	10/27/04	09/13/04	Pre-Treatment	5,130
		12/17/04	1st Post-Treatment	1,353
		03/31/05	2nd Post-Treatment	1,299

ATTACHMENT A
DISCHARGE MONITORING REPORT
APRIL 2005

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

Reporting Month & Year Apr-05

Parameter		Daily Minimum	Daily Maximum	Units	Daily Maximum (lbs/day)	Measurement Frequency	Sample Type
Flow	Monitoring Result Discharge Limitation		9,817 28,800	gpd gpd		Continuous Continuous	Meter Meter
pH	Monitoring Result Discharge Limitation	6.60 6.5	8.25 8.5	s.u. s.u.		7 Weekly	Grab Grab
Total suspended solids	Monitoring Result Discharge Limitation		2.8 20	mg/L mg/L	0.23	1 Monthly	Grab Grab
Toluene	Monitoring Result Discharge Limitation		0.11 5	ug/L ug/L	0.000009	1 Monthly	Grab Grab
Methylene chloride	Monitoring Result Discharge Limitation		0.28 10	ug/L ug/L	0.000023	1 Monthly	Grab Grab
1,2-dichlorobenzene	Monitoring Result Discharge Limitation		< 1.0 5	ug/L ug/L	< 0.00008	1 Monthly	Grab Grab
cis-1,2-dichloroethylene	Monitoring Result Discharge Limitation		< 1.0 10	ug/L ug/L	< 0.00008	1 Monthly	Grab Grab
Trichloroethylene	Monitoring Result Discharge Limitation		< 1.0 10	ug/L ug/L	< 0.00008	1 Monthly	Grab Grab
Tetrachloroethylene	Monitoring Result Discharge Limitation		< 1.0 50	ug/L ug/L	< 0.00008	1 Monthly	Grab Grab
Cadmium	Monitoring Result Discharge Limitation		< 0.31 3	ug/L ug/L	< 0.000025	1 Monthly	Grab Grab
Chromium	Monitoring Result Discharge Limitation		< 0.80 99	ug/L ug/L	< 0.00007	1 Monthly	Grab Grab

ATTACHMENT B
LABORATORY ANALYSIS REPORT
APRIL 2005 EFFLUENT SAMPLE

STL Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238

Tel: 412 963 7058 Fax: 412 963 2468
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. VIACOM

Viacom Buffalo Airport

Lot #: C5D080143

Viacom/Leo Brausch

SEVERN TRENT LABORATORIES, INC.



Carrie L. Gamber
Project Manager

April 25, 2005

NELAC REPORTING:

The format and content of the attached report meets NELAC standards and guidelines except as noted in the narrative. The table below presents a summary of the certifications held by STL 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	STL Pittsburgh
NFESC	NA	NAVY	X
USACE	NA	Corps of Engineers	X
US Dept of Agriculture	(#S-46425)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW	X
		HW	X
California - nelac	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida - nelac	(#E87660)	WW	X
		HW	X
Illinois - nelac	(#200005)	WW	X
		HW	X
Kansas - nelac	(#E-10350)	WW	X
		HW	X
Louisiana - nelac	(#93200)	WW	X
		HW	X
New Hampshire - nelac	(#203002)	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
North Dakota	R-075	WW	X
		HW	X
Ohio Vap	(#CL0063)	WW	X
		HW	X
Pennsylvania - nelac	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014001)	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.

CASE NARRATIVE

Viacom
Buffalo Airport

STL Lot # C5D080143

Sample Receiving:

STL Pittsburgh received one sample on April 8, 2005. 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:

The matrix spike and matrix spike duplicate recovery for 2-chloroethyl vinyl ether is below the control limits (2-chloroethyl vinyl ether is known to break down in an acidic environment). Method performance is demonstrated by acceptable LCS recovery.

Metals:

There were no problems associated with the analysis.

General Chemistry:

There were no problems associated with the analysis.

METHODS SUMMARY

C5D080143

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
pH (Electrometric)	MCAWW 150.1	MCAWW 150.1
Non-Filterable Residue (TSS)	MCAWW 160.2	MCAWW 160.2
Purgeables	CFR136A 624	SW846 5030B
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.

SAMPLE SUMMARY

C5D080143

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
G70RD	001	EFF-0405	04/07/05	09:00

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.

VIACOM

Client Sample ID: EPP-0405

GC/MS Volatiles

Lot-Sample #...: C5D080143-001 Work Order #...: G70RD1A7 Matrix.....: WATER
 Date Sampled...: 04/07/05 Date Received...: 04/08/05 MS Run #.....: 5112121
 Prep Date.....: 04/21/05 Analysis Date...: 04/21/05
 Prep Batch #...: 5112127 Analysis Time...: 17:47
 Dilution Factor: 1
 Method.....: CFR136A 624

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dichlorobenzene	ND	1.0	ug/L	0.090
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.27
Methylene chloride	0.28 J	1.0	ug/L	0.12
Tetrachloroethene	ND	1.0	ug/L	0.080
Toluene	0.11 J	1.0	ug/L	0.080
Trichloroethene	ND	1.0	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	82	(68 - 142)
Toluene-d8	99	(75 - 127)
4-Bromofluorobenzene	101	(82 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

VIACOM

Client Sample ID: KFF-0405

TOTAL Metals

Lot-Sample #...: C5D080143-001

Matrix.....: WATER

Date Sampled...: 04/07/05

Date Received...: 04/08/05

<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 #...: 5099090						
Cadmium	ND	5.0	ug/L	MCAWW 200.7	04/11-04/14/05	G70RD1AC
		Dilution Factor: 1		Analysis Time...: 17:49	MS Run #.....: 5099050	
		MDL.....: 0.31				
Chromium	ND	5.0	ug/L	MCAWW 200.7	04/11-04/14/05	G70RD1AD
		Dilution Factor: 1		Analysis Time...: 17:49	MS Run #.....: 5099050	
		MDL.....: 0.80				

VIACOM

Client Sample ID: EFF-0405

General Chemistry

Lot-Sample #....: C5D080143-001
Date Sampled....: 04/07/05

Work Order #....: G70RD
Date Received...: 04/08/05

Matrix.....: WATER

<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	6.6	--	No Units	MCAWW 150.1	04/08/05	5098414
			Dilution Factor: 1	Analysis Time...: 00:00	MS Run #.....:	
			MDL.....: --			
Total Suspended Solids	2.8 B	4.0	mg/L	MCAWW 160.2	04/13/05	5102033
			Dilution Factor: 1	Analysis Time...: 12:00	MS Run #.....: 5103026	
			MDL.....: 1.7			

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C5D080143 Work Order #...: G8XVD1AA Matrix.....: WATER
 MB Lot-Sample #: F5D220000-127 Prep Date.....: 04/21/05 Analysis Time...: 08:03
 Analysis Date...: 04/22/05 Prep Batch #...: 5112127
 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	ND	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

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
1,2-Dichloroethane-d4	90	(68 - 142)
Toluene-d8	98	(75 - 127)
4-Bromofluorobenzene	97	(82 - 116)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C5D080143

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MB Lot-Sample #: C5D090000-090 Prep Batch #...: 5099090						
Cadmium	ND	5.0	ug/L	MCAWW 200.7	04/11-04/14/05	G74D31AA
		Dilution Factor: 1				
		Analysis Time...: 17:32				
Chromium	ND	5.0	ug/L	MCAWW 200.7	04/11-04/14/05	G74D31AC
		Dilution Factor: 1				
		Analysis Time...: 17:32				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: C5D080143

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	MCAWW 160.2	04/13/05	5102033
		Work Order #: G78JH1AA		MB Lot-Sample #: C5D120000-033		
		Dilution Factor: 1				
		Analysis Time...: 12:00				

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 #...: C5D080143 Work Order #...: G8XVD1AC Matrix.....: WATER
 LCS Lot-Sample#: F5D220000-127
 Prep Date.....: 04/21/05 Analysis Date...: 04/21/05
 Prep Batch #...: 5112127 Analysis Time...: 14:51
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Trichloroethene	99	(84 - 111)	CFR136A 624
Toluene	87	(79 - 122)	CFR136A 624
1,2-Dichlorobenzene	100	(85 - 122)	CFR136A 624
Methylene chloride	88	(44 - 134)	CFR136A 624
Tetrachloroethene	72	(70 - 111)	CFR136A 624
1,1-Dichloroethene	85	(63 - 131)	CFR136A 624
Benzene	94	(82 - 114)	CFR136A 624
Chlorobenzene	90	(85 - 116)	CFR136A 624
Bromodichloromethane	106	(82 - 119)	CFR136A 624
Bromoform	95	(72 - 128)	CFR136A 624
Bromomethane	76	(23 - 123)	CFR136A 624
Carbon tetrachloride	104	(80 - 120)	CFR136A 624
Dibromochloromethane	97	(79 - 127)	CFR136A 624
Chloroethane	80	(34 - 142)	CFR136A 624
2-Chloroethyl vinyl ether	108	(10 - 150)	CFR136A 624
Chloroform	91	(85 - 121)	CFR136A 624
Chloromethane	79	(10 - 144)	CFR136A 624
1,3-Dichlorobenzene	98	(85 - 119)	CFR136A 624
1,4-Dichlorobenzene	97	(85 - 116)	CFR136A 624
1,1-Dichloroethane	95	(85 - 116)	CFR136A 624
1,2-Dichloroethane	90	(84 - 121)	CFR136A 624
trans-1,2-Dichloroethene	95	(81 - 124)	CFR136A 624
1,2-Dichloropropane	103	(84 - 120)	CFR136A 624
cis-1,3-Dichloropropene	106	(81 - 120)	CFR136A 624
trans-1,3-Dichloropropene	113	(72 - 132)	CFR136A 624
Ethylbenzene	91	(85 - 117)	CFR136A 624
1,1,2,2-Tetrachloroethane	103	(72 - 132)	CFR136A 624
1,1,1-Trichloroethane	99	(81 - 119)	CFR136A 624
1,1,2-Trichloroethane	97	(75 - 123)	CFR136A 624
Trichlorofluoromethane	83	(44 - 136)	CFR136A 624
Vinyl chloride	121	(10 - 145)	CFR136A 624

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C5D080143
LCS Lot-Sample#: F5D220000-127

Work Order #...: G8XVD1AC

Matrix.....: WATER

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	86	(85 - 120)
Toluene-d8	96	(84 - 120)
4-Bromofluorobenzene	100	(83 - 116)

NOTE (S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #....: C5D080143

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#: C5D090000-090 Prep Batch #....: 5099090					
Cadmium	102	(85 - 115)	MCAWW 200.7	04/11-04/14/05	G74D31AD
		Dilution Factor: 1		Analysis Time...: 17:37	
Chromium	101	(85 - 115)	MCAWW 200.7	04/11-04/14/05	G74D31AE
		Dilution Factor: 1		Analysis Time...: 17:37	

NOTE (S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C5D080143

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	Work Order #: G72H61AA (99 - 101)	LCS Lot-Sample#: C5D080000-414 MCAWW 150.1	04/08/05	5098414
		Dilution Factor: 1		Analysis Time...: 15:56	
Total Suspended Solids	101	Work Order #: G78JHLAC (80 - 120)	LCS Lot-Sample#: C5D120000-033 MCAWW 160.2	04/13/05	5102033
		Dilution Factor: 1		Analysis Time...: 12:00	

NOTE(S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C5D080143 Work Order #...: G70RD1A8-MS Matrix.....: WATER
 MS Lot-Sample #: C5D080143-001 G70RD1A9-MSD
 Date Sampled...: 04/07/05 Date Received...: 04/08/05 MS Run #.....: 5112121
 Prep Date.....: 04/21/05 Analysis Date...: 04/21/05
 Prep Batch #...: 5112127 Analysis Time...: 18:24
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Toluene	91	(72 - 121)			CFR136A 624
	89	(72 - 121)	2.6	(0-20)	CFR136A 624
1,2-Dichlorobenzene	98	(86 - 118)			CFR136A 624
	95	(86 - 118)	3.0	(0-20)	CFR136A 624
Methylene chloride	86	(22 - 140)			CFR136A 624
	86	(22 - 140)	0.40	(0-20)	CFR136A 624
Tetrachloroethene	76	(62 - 122)			CFR136A 624
	75	(62 - 122)	1.6	(0-20)	CFR136A 624
Trichloroethene	98	(22 - 150)			CFR136A 624
	95	(22 - 150)	3.2	(0-20)	CFR136A 624
1,1-Dichloroethene	88	(42 - 150)			CFR136A 624
	87	(42 - 150)	1.1	(0-20)	CFR136A 624
Chlorobenzene	92	(76 - 123)			CFR136A 624
	96	(76 - 123)	4.2	(0-20)	CFR136A 624
Bromodichloromethane	95	(46 - 150)			CFR136A 624
	98	(46 - 150)	2.6	(0-20)	CFR136A 624
Bromoform	90	(53 - 142)			CFR136A 624
	91	(53 - 142)	1.3	(0-20)	CFR136A 624
Bromomethane	71	(10 - 112)			CFR136A 624
	67	(10 - 112)	5.0	(0-20)	CFR136A 624
Carbon tetrachloride	106	(75 - 120)			CFR136A 624
	105	(75 - 120)	0.85	(0-20)	CFR136A 624
Dibromochloromethane	90	(57 - 143)			CFR136A 624
	90	(57 - 143)	0.26	(0-20)	CFR136A 624
Chloroethane	79	(18 - 150)			CFR136A 624
	76	(18 - 150)	3.8	(0-20)	CFR136A 624
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			CFR136A 624
	0.0 a	(10 - 150)	0.0	(0-20)	CFR136A 624
Chloroform	87	(53 - 137)			CFR136A 624
	86	(53 - 137)	0.72	(0-20)	CFR136A 624
Chloromethane	73	(10 - 134)			CFR136A 624
	74	(10 - 134)	0.81	(0-20)	CFR136A 624
1,3-Dichlorobenzene	98	(86 - 121)			CFR136A 624
	96	(86 - 121)	2.4	(0-20)	CFR136A 624
1,4-Dichlorobenzene	94	(80 - 117)			CFR136A 624
	92	(80 - 117)	2.7	(0-20)	CFR136A 624
1,1-Dichloroethane	96	(80 - 118)			CFR136A 624
	94	(80 - 118)	2.0	(0-20)	CFR136A 624
1,2-Dichloroethane	86	(76 - 122)			CFR136A 624
	85	(76 - 122)	0.64	(0-20)	CFR136A 624

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: C5D080143 Work Order #...: G70RD1A8-MS Matrix.....: WATER
 MS Lot-Sample #: C5D080143-001 G70RD1A9-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
trans-1,2-Dichloroethene	98	(74 - 129)			CFR136A 624
	96	(74 - 129)	1.2	(0-20)	CFR136A 624
1,2-Dichloropropane	100	(78 - 119)			CFR136A 624
	98	(78 - 119)	1.9	(0-20)	CFR136A 624
cis-1,3-Dichloropropene	96	(10 - 150)			CFR136A 624
	94	(10 - 150)	2.8	(0-20)	CFR136A 624
trans-1,3-Dichloropropene	105	(10 - 150)			CFR136A 624
	104	(10 - 150)	1.5	(0-20)	CFR136A 624
Ethylbenzene	95	(76 - 127)			CFR136A 624
	93	(76 - 127)	1.9	(0-20)	CFR136A 624
1,1,2,2-Tetrachloroethane	98	(10 - 150)			CFR136A 624
	97	(10 - 150)	0.76	(0-20)	CFR136A 624
1,1,1-Trichloroethane	100	(69 - 125)			CFR136A 624
	99	(69 - 125)	2.0	(0-20)	CFR136A 624
1,1,2-Trichloroethane	92	(10 - 150)			CFR136A 624
	90	(10 - 150)	2.9	(0-20)	CFR136A 624
Trichlorofluoromethane	86	(36 - 149)			CFR136A 624
	86	(36 - 149)	0.11	(0-20)	CFR136A 624
Vinyl chloride	128	(10 - 150)			CFR136A 624
	124	(10 - 150)	3.0	(0-20)	CFR136A 624
Benzene	95	(75 - 116)			CFR136A 624
	92	(75 - 116)	3.3	(0-20)	CFR136A 624

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	84	(68 - 142)
	83	(68 - 142)
Toluene-d8	97	(75 - 127)
	97	(75 - 127)
4-Bromofluorobenzene	103	(82 - 116)
	101	(82 - 116)

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.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C5D080143

Matrix.....: WATER

Date Sampled...: 04/07/05

Date Received...: 04/08/05

<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>
MS Lot-Sample #: C5D080143-001 Prep Batch #...: 5099090							
Cadmium	100	(70 - 130)			MCAWW 200.7	04/11-04/14/05	G70RD1AG
	99	(70 - 130)	1.5	(0-20)	MCAWW 200.7	04/11-04/14/05	G70RD1AH
			Dilution Factor: 1				
			Analysis Time...: 18:00				
			MS Run #.....: 5099050				
Chromium	97	(70 - 130)			MCAWW 200.7	04/11-04/14/05	G70RD1AJ
	96	(70 - 130)	1.3	(0-20)	MCAWW 200.7	04/11-04/14/05	G70RD1AK
			Dilution Factor: 1				
			Analysis Time...: 18:00				
			MS Run #.....: 5099050				

NOTE(S) :

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: C5D080143

Work Order #...: G70Q7-SMP
G70Q7-DUP

Matrix.....: WATER

Date Sampled...: 04/07/05

Date Received...: 04/08/05

<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>
Total Suspended Solids	ND	ND	mg/L	0	(0-20)	MCAWW 160.2	04/13/05	5102033
						SD Lot-Sample #: C5D080140-001		
				Dilution Factor: 1	Analysis Time...: 12:00		MS Run Number...: 5103026	

ATTACHMENT C

**LABORATORY ANALYSIS REPORT
MW-32 SAMPLE, MARCH 31, 2005**

STL Pittsburgh
301 Alpha Drive
Pittsburgh, PA 15238

Tel: 412 963 7058 Fax: 412 963 2468
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. VIACOM

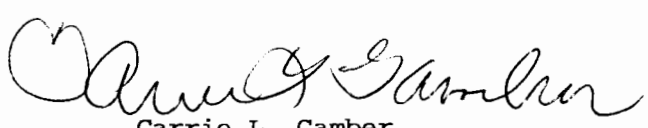
Viacom Buffalo Airport

Lot #: C5D010205

Leo Brausch Consulting

Leo Brausch Consulting

SEVERN TRENT LABORATORIES, INC.



Carrie L. Gamber
Project Manager

April 28, 2005



STL



NELAC REPORTING:

The format and content of the attached report meets NELAC standards and guidelines except as noted in the narrative. The table below presents a summary of the certifications held by STL 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	STL Pittsburgh
NFESC	NA	NAVY	X
USACE	NA	Corps of Engineers	X
US Dept of Agriculture	(#S-46425)	Foreign Soil Import Permit	X
Arkansas	(#03-022-1)	WW	X
		HW	X
California - nelac	04224CA	WW	X
		HW	X
Connecticut	(#PH-0688)	WW	X
		HW	X
Florida - nelac	(#E87660)	WW	X
		HW	X
Illinois - nelac	(#200005)	WW	X
		HW	X
Kansas - nelac	(#E-10350)	WW	X
		HW	X
Louisiana - nelac	(#93200)	WW	X
		HW	X
New Hampshire - nelac	(#203002)	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
North Dakota	R-075	WW	X
		HW	X
Ohio Vap	(#CL0083)	WW	X
		HW	X
Pennsylvania - nelac	(#02-00416)	WW	X
		HW	X
South Carolina	(#89014001)	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.

CASE NARRATIVE

Viacom
Buffalo Airport

STL Lot # C5D010205

Sample Receiving:

STL Pittsburgh received samples on April 1, 2005. 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 VIA-32-033105-DJT was analyzed at a dilution.

Metals:

There were no problems associated with the analysis.

METHODS SUMMARY

C5D010205

<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	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

C5D010205

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
G7HDQ	001	VIA-32-033105-DJT	03/31/05	09:45
G7HDV	002	TB-18036-033105-DJT	03/31/05	

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 filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

VIACOM

Client Sample ID: VIA-32-033105-DJT

GC/MS Volatiles

Lot-Sample #...: C5D010205-001 Work Order #...: G7HDQ1AA Matrix.....: WATER
 Date Sampled...: 03/31/05 Date Received...: 04/01/05 MS Run #.....: 5094216
 Prep Date.....: 04/04/05 Analysis Date...: 04/04/05
 Prep Batch #...: 5094338 Analysis Time...: 14:04
 Dilution Factor: 5

Method.....: OCLP OLM04.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Toluene	ND	50	ug/L	5.0
cis-1,2-Dichloroethene	570	50	ug/L	5.0
1,1,1-Trichloroethane	ND	50	ug/L	5.0
Trichloroethene	680	50	ug/L	5.0
Vinyl chloride	49 J	50	ug/L	5.0

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	99	(88 - 110)
Bromofluorobenzene	98	(86 - 115)
1,2-Dichloroethane-d4	101	(76 - 114)

NOTE(S):

J Estimated result. Result is less than RL.

VIACOM

Client Sample ID: VIA-32-033105-DJT

TOTAL Metals

Lot-Sample #....: C5D010205-001

Matrix.....: WATER

Date Sampled...: 03/31/05

Date Received...: 04/01/05

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Prep Batch #....: 5094247						
Cadmium	ND	5	ug/L	ICLP ILM04.0	04/20-04/26/05	G7HDQ1AC
		Dilution Factor: 1		Analysis Time...: 16:00	MS Run #.....: 5094139	
		MDL.....: 0.22				
Lead	ND	3	ug/L	ICLP ILM04.0	04/20-04/26/05	G7HDQ1AD
		Dilution Factor: 1		Analysis Time...: 16:00	MS Run #.....: 5094139	
		MDL.....: 1.7				

VIACOM

Client Sample ID: TB-18036-033105-DJT

GC/MS Volatiles

Lot-Sample #....: C5D010205-002 Work Order #....: G7HDV1AA Matrix.....: WATER
 Date Sampled....: 03/31/05 Date Received...: 04/01/05 MS Run #.....: 5094216
 Prep Date.....: 04/04/05 Analysis Date...: 04/04/05
 Prep Batch #....: 5094338 Analysis Time...: 12:21
 Dilution Factor: 1
 Method.....: OCLP OLM04.2

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
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
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Toluene-d8	100	(88 - 110)		
Bromofluorobenzene	102	(86 - 115)		
1,2-Dichloroethane-d4	102	(76 - 114)		

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C5D010205
 MB Lot-Sample #: C5D040000-338

Work Order #...: G7LHX1AA

Matrix.....: WATER

Analysis Date...: 04/04/05
 Dilution Factor: 1

Prep Date.....: 04/04/05

Analysis Time...: 11:56

Prep Batch #...: 5094338

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
cis-1,2-Dichloroethene	ND	10	ug/L	OCLP O1M04.2
Toluene	ND	10	ug/L	OCLP O1M04.2
1,1,1-Trichloroethane	ND	10	ug/L	OCLP O1M04.2
Trichloroethene	ND	10	ug/L	OCLP O1M04.2
Vinyl chloride	ND	10	ug/L	OCLP O1M04.2

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Toluene-d8	107	(88 - 110)
Bromofluorobenzene	109	(86 - 115)
1,2-Dichloroethane-d4	108	(76 - 114)

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: C5D010205

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: C5D040000-247 Prep Batch #...: 5094247						
Cadmium	ND	5.0	ug/L	ICLP ILM04.0	04/20-04/26/05	G7K6K1AA
		Dilution Factor: 1				
		Analysis Time...: 15:22				
Lead	ND	3.0	ug/L	ICLP ILM04.0	04/20-04/26/05	G7K6K1AC
		Dilution Factor: 1				
		Analysis Time...: 15:22				

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 #....: C5D010205 Work Order #....: G7LHX1AC Matrix.....: WATER
 LCS Lot-Sample#: C5D040000-338
 Prep Date.....: 04/04/05 Analysis Date...: 04/04/05
 Prep Batch #....: 5094338 Analysis Time...: 13:39
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Trichloroethene	106	(71 - 120)	OCLP OLM04.2
Toluene	110	(76 - 125)	OCLP OLM04.2
1,1-Dichloroethene	107	(61 - 145)	OCLP OLM04.2
Benzene	106	(76 - 127)	OCLP OLM04.2
Chlorobenzene	108	(75 - 130)	OCLP OLM04.2

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	96	(88 - 110)
Bromofluorobenzene	97	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)

NOTE (S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: C5D010205

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
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LCS Lot-Sample#: C5D040000-247 Prep Batch #...: 5094247

Cadmium	102	(80 - 120)	ICLP ILM04.0	04/20-04/26/05	G7K6K1AD
			Dilution Factor: 1	Analysis Time..: 15:55	

Lead	102	(80 - 120)	ICLP ILM04.0	04/20-04/26/05	G7K6K1AE
			Dilution Factor: 1	Analysis Time..: 15:55	

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: C5D010205 Work Order #....: G7J8A1A7-MS Matrix.....: WATER
 MS Lot-Sample #: C5D020152-001 G7J8A1A8-MSD
 Date Sampled...: 03/30/05 Date Received...: 04/02/05 MS Run #.....: 5094216
 Prep Date.....: 04/04/05 Analysis Date...: 04/04/05
 Prep Batch #...: 5094338 Analysis Time...: 14:30
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Trichloroethene	109	(71 - 120)			OCLP OLM04.2
	103	(71 - 120)	5.8	(0-14)	OCLP OLM04.2
Toluene	112	(76 - 125)			OCLP OLM04.2
	109	(76 - 125)	2.7	(0-13)	OCLP OLM04.2
1,1-Dichloroethene	110	(61 - 145)			OCLP OLM04.2
	107	(61 - 145)	3.4	(0-14)	OCLP OLM04.2
Benzene	111	(76 - 127)			OCLP OLM04.2
	106	(76 - 127)	4.9	(0-11)	OCLP OLM04.2
Chlorobenzene	110	(75 - 130)			OCLP OLM04.2
	107	(75 - 130)	3.0	(0-13)	OCLP OLM04.2

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Toluene-d8	103	(88 - 110)
	100	(88 - 110)
Bromofluorobenzene	99	(86 - 115)
	94	(86 - 115)
1,2-Dichloroethane-d4	107	(76 - 114)
	100	(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

TOTAL Metals

Client Lot #...: C5D010205
Date Sampled...: 03/31/05

Date Received...: 04/01/05

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>
------------------	-----------------------------	----------------------------	---------------	---------------------------------------	---------------------

MS Lot-Sample #: C5D010205-001 Prep Batch #...: 5094247

Cadmium	98	(75 - 125)	ICLP ILM04.0	04/20-04/26/05	G7HDQ1AE
		Dilution Factor: 1	Analysis Time...: 16:00		
		MS Run #.....: 5094139			

Lead	106	(75 - 125)	ICLP ILM04.0	04/20-04/26/05	G7HDQ1AF
		Dilution Factor: 1	Analysis Time...: 16:00		
		MS Run #.....: 5094139			

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

Metals

Client Lot #....: C5D010205

Work Order #....: G7HDQ-SMP
G7HDQ-DUP

Matrix.....: WATER

Date Sampled....: 03/31/05

Date Received...: 04/01/05

<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	04/20-04/26/05	5094247
			Dilution Factor: 1			Analysis Time...: 16:00	MS Run Number...: 5094139	
Lead	ND	ND	ug/L	0	(0-20)	ICLP ILM04.0	04/20-04/26/05	5094247
			Dilution Factor: 1			Analysis Time...: 16:00	MS Run Number...: 5094139	