



**CBS Corporation**

Environmental Remediation  
PNC Center  
20 Stanwix Street, 10<sup>th</sup> Floor  
Pittsburgh, PA 15222

May 12, 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 April 2010 and transmits the discharge monitoring report for this reporting period.

**1. Site Activities and Status**

- A. On April 7, 2010, CBS submitted to NYSDEC a monthly report on the status of O&M activities at the Site for the March 2010 operating period. That status report also transmitted the discharge monitoring data for March 2010.
- B. The recovery and treatment system operated throughout April 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.

## **2. Sampling Results and Other Site Data**

- A. In April 2010, the groundwater system recovered and treated an estimated 76,000 gallons. The lower flow is in part due to the partial closure of the 001 portion of the groundwater collection system.
- B. Attachment A provides the discharge monitoring report for April 2010 based on the effluent sample collected on April 22, 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 April 2010 reporting period, the effluent sampling results complied with all discharge limitations.

## **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).

## **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 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

**ATTACHMENT A**  
**DISCHARGE MONITORING REPORT**  
**APRIL 2010**

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

Reporting Month & Year **Apr-10**

| Parameter                |                      | Daily Minimum | Daily Maximum | Units | Daily Maximum (lbs/day) | Measurement Frequency | Sample Type |
|--------------------------|----------------------|---------------|---------------|-------|-------------------------|-----------------------|-------------|
| Flow                     | Monitoring Result    |               | 1,949         | gpd   |                         | Continuous            | Meter       |
|                          | Discharge Limitation |               | 28,800        | gpd   |                         | Continuous            | Meter       |
| pH                       | Monitoring Result    | 6.96          | 7.51          | 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  | < 0.000002              | 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**  
**EFFLUENT SAMPLING - APRIL 2010**

## ANALYTICAL REPORT

PROJECT NO. LEO BRAUSCH BUF

Leo Brausch Buffalo Airport

Lot #: COD230557

Leo Brausch

Leo Brausch Consulting  
131 Wedgewood Drive  
Gibsonia, PA 15044

TESTAMERICA LABORATORIES, INC.



Carrie L. Gamber  
Project Manager

May 3, 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 |
|------------------------------------|--------------------------------|----------------------------|-------------|
| DoD ELAP                           | ADE-1442                       | WW<br>HW                   | X           |
| US Dept of Agriculture<br>Arkansas | (#P330-07-00101)<br>(#88-0690) | Foreign Soil Import Permit | X           |
| California – NELAC                 | 04224CA                        | WW<br>HW                   | X<br>X      |
| Connecticut                        | (#PH-0688)                     | WW<br>HW                   | X<br>X      |
| Florida – NELAC                    | (#E871008)                     | WW<br>HW                   | X<br>X      |
| Illinois – NELAC                   | (#002319)                      | WW<br>HW                   | X<br>X      |
| Kansas – NELAC                     | (#E-10350)                     | WW<br>HW                   | X<br>X      |
| Louisiana – NELAC                  | (#04041)                       | WW<br>HW                   | X<br>X      |
| New Hampshire – NELAC              | (#203010)                      | WW<br>--                   | X<br>--     |
| New Jersey – NELAC                 | (PA-005)                       | WW<br>HW                   | X<br>X      |
| New York – NELAC                   | (#11182)                       | WW<br>HW                   | X<br>X      |
| North Carolina                     | (#434)                         | WW<br>HW                   | X<br>X      |
| Pennsylvania - NELAC               | (#02-00416)                    | WW<br>HW                   | X<br>X      |
| South Carolina                     | (#89014002)                    | WW<br>HW                   | X<br>X      |
| Utah – NELAC                       | (STLP)                         | WW<br>HW                   | X<br>X      |
| West Virginia                      | (#142)                         | WW<br>HW                   | X<br>X      |
| Wisconsin                          | 998027800                      | WW<br>HW                   | X<br>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.

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## CASE NARRATIVE

### Leo Brausch Consulting

Lot # COD230557

#### **Sample Receiving:**

TestAmerica's Pittsburgh laboratory received one sample on April 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:**

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

The matrix spike recovered outside control limits for tetrachloroethene, 2-chloroethyl vinyl ether and trans-1, 3-dichloropropene. Tetrachloroethene is the only compound of interest. All results were reported.

#### **Metals:**

There were no problems associated with the analysis.

#### **General Chemistry:**

The test for pH is a field parameter. The laboratory pH analysis was completed at the request of the client.

# CHAIN OF CUSTODY RECORD

|   |                                      | <b>SHIPPED TO (Laboratory Name):</b><br><i>Test America</i><br><i>PIHLS</i> |   | <b>REFERENCE NUMBER:</b> <i>018036</i><br><i>Buffalo Airport</i><br><i>Via Cam</i> |              |
|---|--------------------------------------|---|---|--|--------------|
| <b>CONESTOGA-BOYERS &amp; ASSOCIATES</b><br><i>2055 Niagara Falls Blvd</i><br><i>Niagara Falls NY 14304</i> |                                      | <b>PRINTED NAME:</b> <i>Robert B. B...</i>                                  |   |  |              |
| <b>SAMPLER'S SIGNATURE:</b><br><i>Robert B. B...</i>  | <b>PARAMETERS:</b><br><i>500 PPM</i> | <b>No. of Containers</b>  | <b>REMARKS</b>                                    |  |              |
| SEQ. No.  | DATE                                 | TIME  | SAMPLE No.  | SAMPLE TYPE  |              |
|   | <i>4/23/68</i>                       | <i>900</i>  | <i>EFF0410</i>                                    | <i>Water</i>   | <i>3 1 1</i> |
|   |                                      |   |   |  |              |
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|   |                                      |   |   |  |              |
| TOTAL NUMBER OF CONTAINERS  |                                      |   | HEALTH/CHEMICAL HAZARDS                           |  |              |
| RELINQUISHED BY:<br><i>Robert B. B...</i>   |                                      |   | RECEIVED BY:                                      |  |              |
| DATE: <i>4/23/68</i>  |                                      |   | DATE: _____                                       |  |              |
| TIME: <i>1030</i>   |                                      |   | TIME: _____                                       |  |              |
| RELINQUISHED BY: ② _____  |                                      |   | RECEIVED BY: ① _____                              |  |              |
| DATE: _____   |                                      |   | DATE: _____                                       |  |              |
| TIME: _____   |                                      |   | TIME: _____                                       |  |              |
| RELINQUISHED BY: ③ _____  |                                      |   | RECEIVED BY: ② _____                              |  |              |
| DATE: _____   |                                      |   | DATE: _____                                       |  |              |
| TIME: _____   |                                      |   | TIME: _____                                       |  |              |
| METHOD OF SHIPMENT:   |                                      |   | WAY BILL No.                                      |  |              |
| — Fully Executed Copy   |                                      |   | SAMPLE TEAM: <i>Robert B. B...</i>                |  |              |
| — Receiving Laboratory Copy   |                                      |   | RECEIVED FOR LABORATORY BY: <i>Robert B. B...</i> |  |              |
| — Shipper Copy  |                                      |   | DATE: <i>4/23/68</i> TIME: <i>1015</i>            |  |              |
| — Sampler Copy  |                                      |   | Nº: <i>CRA 23064</i>                              |  |              |

# METHODS SUMMARY

COD230557

| <u>PARAMETER</u>                              | <u>ANALYTICAL<br/>METHOD</u> | <u>PREPARATION<br/>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

COD230557

| <u>WO #</u> | <u>SAMPLE#</u> | <u>CLIENT SAMPLE ID</u> | <u>SAMPLED DATE</u> | <u>SAMP TIME</u> |
|-------------|----------------|-------------------------|---------------------|------------------|
| L0FVE       | 001            | EFF0410                 | 04/22/10            | 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 filler test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Leo Brausch Consulting

Client Sample ID: EFF0410

GC/MS Volatiles

Lot-Sample #...: COD230557-001    Work Order #...: L0FVE1AD    Matrix.....: WATER  
Date Sampled...: 04/22/10    Date Received..: 04/23/10    MS Run #.....: 0117239  
Prep Date.....: 04/27/10    Analysis Date..: 04/27/10  
Prep Batch #...: 0117437    Analysis Time..: 03:18  
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     | 93              | (81 - 112)       |              |            |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: C0D230557  
MB Lot-Sample #: A0D270000-437  
Analysis Date...: 04/26/10  
Dilution Factor: 1

Work Order #...: L0L121AA  
Prep Date.....: 04/26/10  
Prep Batch #...: 0117437

Matrix.....: WATER  
Analysis Time...: 18:30

| <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   |
| 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   |
| cis-1,2-Dichloroethene | ND            | 1.0              | ug/L         | CFR136A 624   |

| <u>SURROGATE</u>      | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|-----------------------|-------------------------|------------------------|
| 1,2-Dichloroethane-d4 | 111                     | (80 - 125)             |
| Toluene-d8            | 104                     | (84 - 110)             |
| Bromofluorobenzene    | 90                      | (81 - 112)             |

**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 #...: COD230557      Work Order #...: L0L121AC      Matrix.....: WATER  
 LCS Lot-Sample#: A0D270000-437  
 Prep Date.....: 04/26/10      Analysis Date...: 04/26/10  
 Prep Batch #...: 0117437      Analysis Time...: 18:06  
 Dilution Factor: 1

| <u>PARAMETER</u>          | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> | <u>METHOD</u> |
|---------------------------|----------------------------|---------------------------|---------------|
| 1,2-Dichlorobenzene       | 101                        | (18 - 190)                | CFR136A 624   |
| Methylene chloride        | 95                         | (10 - 221)                | CFR136A 624   |
| Tetrachloroethene         | 112                        | (64 - 148)                | CFR136A 624   |
| Toluene                   | 102                        | (47 - 150)                | CFR136A 624   |
| Trichloroethene           | 115                        | (71 - 157)                | CFR136A 624   |
| Benzene                   | 104                        | (37 - 151)                | CFR136A 624   |
| Bromodichloromethane      | 110                        | (35 - 155)                | CFR136A 624   |
| Bromoform                 | 98                         | (45 - 169)                | CFR136A 624   |
| Bromomethane              | 76                         | (10 - 242)                | CFR136A 624   |
| Carbon tetrachloride      | 105                        | (70 - 140)                | CFR136A 624   |
| Chlorobenzene             | 102                        | (37 - 160)                | CFR136A 624   |
| Chloroethane              | 66                         | (14 - 230)                | CFR136A 624   |
| 2-Chloroethyl vinyl ether | 74                         | (10 - 305)                | CFR136A 624   |
| Chloroform                | 114                        | (51 - 138)                | CFR136A 624   |
| Chloromethane             | 104                        | (10 - 273)                | CFR136A 624   |
| Dibromochloromethane      | 96                         | (53 - 149)                | CFR136A 624   |
| 1,3-Dichlorobenzene       | 98                         | (59 - 156)                | CFR136A 624   |
| 1,4-Dichlorobenzene       | 95                         | (18 - 190)                | CFR136A 624   |
| 1,1-Dichloroethane        | 110                        | (59 - 155)                | CFR136A 624   |
| 1,2-Dichloroethane        | 106                        | (49 - 155)                | CFR136A 624   |
| 1,1-Dichloroethene        | 119                        | (10 - 234)                | CFR136A 624   |
| trans-1,2-Dichloroethene  | 106                        | (54 - 156)                | CFR136A 624   |
| 1,2-Dichloropropane       | 105                        | (10 - 210)                | CFR136A 624   |
| cis-1,3-Dichloropropene   | 95                         | (10 - 227)                | CFR136A 624   |
| trans-1,3-Dichloropropene | 80                         | (17 - 183)                | CFR136A 624   |
| Ethylbenzene              | 97                         | (37 - 162)                | CFR136A 624   |
| 1,1,2,2-Tetrachloroethane | 83                         | (46 - 157)                | CFR136A 624   |
| 1,1,1-Trichloroethane     | 102                        | (52 - 162)                | CFR136A 624   |
| 1,1,2-Trichloroethane     | 96                         | (52 - 150)                | CFR136A 624   |
| Trichlorofluoromethane    | 116                        | (17 - 181)                | CFR136A 624   |
| Vinyl chloride            | 84                         | (10 - 251)                | CFR136A 624   |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: COD230557      Work Order #...: L0L121AC      Matrix.....: WATER  
LCS Lot-Sample#: A0D270000-437

| <u>SURROGATE</u>      | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| 1,2-Dichloroethane-d4 | 114                               | (80 - 125)                       |
| Toluene-d8            | 105                               | (84 - 110)                       |
| Bromofluorobenzene    | 101                               | (81 - 112)                       |

**NOTE(S):**

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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 #...: COD230557      Work Order #...: L0FVE1A4      Matrix.....: WATER  
 MS Lot-Sample #: COD230557-001  
 Date Sampled...: 04/22/10      Date Received...: 04/23/10  
 Prep Date.....: 04/27/10      Analysis Date...: 04/27/10  
 Prep Batch #...: 0117437      MS Run #.....: 0117239  
 Dilution Factor: 1

| <u>PARAMETER</u>          | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> | <u>METHOD</u> |
|---------------------------|----------------------------|---------------------------|---------------|
| 1,2-Dichlorobenzene       | 101                        | (90 - 115)                | CFR136A 624   |
| Methylene chloride        | 88                         | (78 - 131)                | CFR136A 624   |
| Tetrachloroethene         | 116 a                      | (81 - 112)                | CFR136A 624   |
| Toluene                   | 102                        | (87 - 112)                | CFR136A 624   |
| Trichloroethene           | 114                        | (85 - 114)                | CFR136A 624   |
| Benzene                   | 105                        | (90 - 114)                | CFR136A 624   |
| Bromodichloromethane      | 98                         | (78 - 123)                | CFR136A 624   |
| Bromoform                 | 80                         | (40 - 141)                | CFR136A 624   |
| Bromomethane              | 69                         | (42 - 160)                | CFR136A 624   |
| Carbon tetrachloride      | 86                         | (61 - 129)                | CFR136A 624   |
| Chlorobenzene             | 101                        | (90 - 113)                | CFR136A 624   |
| Chloroethane              | 65                         | (56 - 133)                | CFR136A 624   |
| 2-Chloroethyl vinyl ether | 0.0 a                      | (10 - 185)                | CFR136A 624   |
| Chloroform                | 110                        | (90 - 118)                | CFR136A 624   |
| Chloromethane             | 95                         | (37 - 127)                | CFR136A 624   |
| Dibromochloromethane      | 79                         | (65 - 123)                | CFR136A 624   |
| 1,3-Dichlorobenzene       | 97                         | (90 - 111)                | CFR136A 624   |
| 1,4-Dichlorobenzene       | 95                         | (90 - 112)                | CFR136A 624   |
| 1,1-Dichloroethane        | 109                        | (90 - 114)                | CFR136A 624   |
| 1,2-Dichloroethane        | 108                        | (90 - 123)                | CFR136A 624   |
| 1,1-Dichloroethene        | 115                        | (83 - 129)                | CFR136A 624   |
| trans-1,2-Dichloroethene  | 106                        | (85 - 116)                | CFR136A 624   |
| 1,2-Dichloropropane       | 103                        | (87 - 119)                | CFR136A 624   |
| cis-1,3-Dichloropropene   | 78                         | (77 - 115)                | CFR136A 624   |
| trans-1,3-Dichloropropene | 67 a                       | (71 - 114)                | CFR136A 624   |
| Ethylbenzene              | 96                         | (88 - 111)                | CFR136A 624   |
| 1,1,2,2-Tetrachloroethane | 89                         | (77 - 133)                | CFR136A 624   |
| 1,1,1-Trichloroethane     | 92                         | (82 - 119)                | CFR136A 624   |
| 1,1,2-Trichloroethane     | 102                        | (89 - 123)                | CFR136A 624   |
| Trichlorofluoromethane    | 104                        | (62 - 110)                | CFR136A 624   |
| Vinyl chloride            | 81                         | (50 - 119)                | CFR136A 624   |

| <u>SURROGATE</u>      | PERCENT<br><u>RECOVERY</u> | RECOVERY<br><u>LIMITS</u> |
|-----------------------|----------------------------|---------------------------|
| 1,2-Dichloroethane-d4 | 117                        | (80 - 125)                |
| Toluene-d8            | 106                        | (84 - 110)                |
| Bromofluorobenzene    | 104                        | (81 - 112)                |

(Continued on next page)

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

**Lot-Sample #...**: COD230557  
**MS Lot-Sample #**: COD230557-001

**Work Order #...**: L0FVE1A4

**Matrix.....**: WATER

**NOTE(S)**:

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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: EFF0410

TOTAL Metals

Lot-Sample #...: COD230557-001

Matrix.....: WATER

Date Sampled...: 04/22/10

Date Received...: 04/23/10

| <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> |
| <b>Prep Batch #...: 0114071</b> |               |                    |              |                        |                        |                |
| Cadmium                         | ND            | 5.0                | ug/L         | MCAWW 200.7            | 04/24-04/28/10         | L0FVE1AA       |
|                                 |               | Dilution Factor: 1 |              | Analysis Time..: 21:26 | MS Run #.....: 0114049 |                |
|                                 |               | MDL.....: 0.15     |              |                        |                        |                |
| Chromium                        | ND            | 5.0                | ug/L         | MCAWW 200.7            | 04/24-04/28/10         | L0FVE1AC       |
|                                 |               | Dilution Factor: 1 |              | Analysis Time..: 21:26 | MS Run #.....: 0114049 |                |
|                                 |               | MDL.....: 0.51     |              |                        |                        |                |

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: COD230557

Matrix.....: WATER

| <u>PARAMETER</u>                      | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>WORK</u><br><u>ORDER #</u> |
|---------------------------------------|---------------|----------------------------------|--------------|---------------|---|-------------------------------|
| <b>MB Lot-Sample #:</b> COD240000-071 |               | <b>Prep Batch #...</b> : 0114071 |              |               |   |                               |
| Cadmium                               | ND            | 5.0                              | ug/L         | MCAWW 200.7   | 04/24-04/28/10                              | L0GQ51AA                      |
|                                       |               | Dilution Factor: 1               |              |               |   |                               |
|                                       |               | Analysis Time..: 21:08           |              |               |   |                               |
| Chromium                              | ND            | 5.0                              | ug/L         | MCAWW 200.7   | 04/24-04/28/10                              | L0GQ51AC                      |
|                                       |               | Dilution Factor: 1               |              |               |   |                               |
|                                       |               | Analysis Time..: 21:08           |              |               |   |                               |

**NOTE(S):**

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: COD230557

Matrix.....: WATER

| <u>PARAMETER</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>METHOD</u> | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-----------------------------|----------------------------|---------------|---------------------------------------|---------------------|
|------------------|-----------------------------|----------------------------|---------------|---------------------------------------|---------------------|

LCS Lot-Sample#: COD240000-071 Prep Batch #...: 0114071

|         |     |                    |             |                        |          |
|---------|-----|--------------------|-------------|------------------------|----------|
| Cadmium | 101 | (85 - 115)         | MCAWW 200.7 | 04/24-04/28/10         | LOGQ51AD |
|         |     | Dilution Factor: 1 |             | Analysis Time..: 21:13 |          |

|          |    |                    |             |                        |          |
|----------|----|--------------------|-------------|------------------------|----------|
| Chromium | 99 | (85 - 115)         | MCAWW 200.7 | 04/24-04/28/10         | LOGQ51AE |
|          |    | Dilution Factor: 1 |             | Analysis Time..: 21:13 |          |

**NOTE(S):**

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

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**TOTAL Metals**

Client Lot #...: COD230557

Matrix.....: WATER

Date Sampled...: 04/22/10

Date Received...: 04/23/10

| <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> |
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|
|------------------|-------------------------|------------------------|------------|-------------------|---------------|-----------------------------------|---------------------|

**MS Lot-Sample #:** COD230557-001 **Prep Batch #...**: 0114071

|         |    |            |     |        |             |                |          |
|---------|----|------------|-----|--------|-------------|----------------|----------|
| Cadmium | 97 | (70 - 130) |     |        | MCAWW 200.7 | 04/24-04/28/10 | L0FVE1AG |
|         | 98 | (70 - 130) | 1.1 | (0-20) | MCAWW 200.7 | 04/24-04/28/10 | L0FVE1AH |

Dilution Factor: 1  
 Analysis Time...: 21:44  
 MS Run #.....: 0114049

|          |    |            |     |        |             |                |          |
|----------|----|------------|-----|--------|-------------|----------------|----------|
| Chromium | 97 | (70 - 130) |     |        | MCAWW 200.7 | 04/24-04/28/10 | L0FVE1AJ |
|          | 98 | (70 - 130) | 1.0 | (0-20) | MCAWW 200.7 | 04/24-04/28/10 | L0FVE1AK |

Dilution Factor: 1  
 Analysis Time...: 21:44  
 MS Run #.....: 0114049

**NOTE(S):**

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

Leo Brausch Consulting

Client Sample ID: EFF0410

General Chemistry

Lot-Sample #...: COD230557-001

Work Order #...: L0FVE

Matrix.....: WATER

Date Sampled...: 04/22/10

Date Received...: 04/23/10

| <u>PARAMETER</u>       | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u>      | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------------|---------------|-----------|--------------|--------------------|---------------------------------------|-------------------------|
| pH                     | 7.2           | --        | No Units     | SM20 4500-H+B      | 04/24/10                              | 0114067                 |
|                        |               |           |              | Dilution Factor: 1 | Analysis Time..: 11:26                | MS Run #.....: 0114045  |
|                        |               |           |              | MDL.....: --       |                                       |                         |
| Total Suspended Solids | ND            | 4.0       | mg/L         | SM20 2540D         | 04/24-04/25/10                        | 0114022                 |
|                        |               |           |              | Dilution Factor: 1 | Analysis Time..: 09:15                | MS Run #.....: 0114009  |
|                        |               |           |              | MDL.....: 2.0      |                                       |                         |

METHOD BLANK REPORT

General Chemistry

Client Lot #...: COD230557

Matrix.....: WATER

| <u>PARAMETER</u>       | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>                  | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>PREP</u><br><u>BATCH #</u> |
|------------------------|---------------|----------------------------------|--------------|--------------------------------|---|-------------------------------|
| Total Suspended Solids | ND            | 4.0                              | mg/L         | SM20 2540D                     | 04/24-04/25/10                              | 0114022                       |
|                        |               | Work Order #: L0GJ31AA           |              | MB Lot-Sample #: COD240000-022 |   |                               |
|                        |               | Dilution Factor: 1               |              |                                |   |                               |
|                        |               | Analysis Time..: 09:15           |              |                                |   |                               |

**NOTE(S):**

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



LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: C0D230557

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 #: L0GME1AA<br>SM20 4500-H+B<br>Dilution Factor: 1 | LCS Lot-Sample#: C0D240000-067<br>04/24/10<br>Analysis Time.: 11:02       | 0114067             |
| Total Suspended Solids | 98                      | (80 - 120)             | Work Order #: L0GJ31AC<br>SM20 2540D<br>Dilution Factor: 1    | LCS Lot-Sample#: C0D240000-022<br>04/24-04/25/10<br>Analysis Time.: 09:15 | 0114022             |

**NOTE(S):**

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

**SAMPLE DUPLICATE EVALUATION REPORT**

**General Chemistry**

**Client Lot #...**: COD230557

**Work Order #...**: LOFWA-SMP  
LOFWA-DUP

**Matrix.....**: WATER

**Date Sampled...**: 04/22/10

**Date Received..**: 04/23/10

| <u>PARAM</u>                   | <u>RESULT</u> | <u>DUPLICATE</u><br><u>RESULT</u> | <u>UNITS</u> | <u>RPD</u>            | <u>RPD</u><br><u>LIMIT</u> | <u>METHOD</u>           | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>PREP</u><br><u>BATCH #</u> |
|--------------------------------|---------------|-----------------------------------|--------------|-----------------------|----------------------------|-------------------------|---|-------------------------------|
| Total Suspended Solids         | 5690          | 5820                              | mg/L         | 2.2                   | (0-20)                     | SM20 2540D              | 04/24-04/25/10                              | 0114022                       |
|                                |               | Dilution Factor: 1                |              | Analysis Time.: 09:15 |                            | MS Run Number.: 0114009 |   |                               |
| SD Lot-Sample #: COD230565-001 |               |                                   |              |                       |                            |                         |   |                               |

**SAMPLE DUPLICATE EVALUATION REPORT**

**General Chemistry**

**Client Lot #...**: COD230557

**Work Order #...**: L0E29-SMP  
L0E29-DUP

**Matrix.....**: WATER

**Date Sampled...**: 04/22/10

**Date Received..**: 04/22/10

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPLICATE<br/>RESULT</u> | <u>UNITS</u>       | <u>RPD</u> | <u>RPD<br/>LIMIT</u> | <u>METHOD</u>                  | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|--------------|---------------|-----------------------------|--------------------|------------|----------------------|--------------------------------|---------------------------------------|-------------------------|
| pH           | 6.4           | 6.4                         | No Units           | 0.31       | (0-2.0)              | SM20 4500-H+B                  | 04/24/10                              | 0114067                 |
|              |               |                             | Dilution Factor: 1 |            |                      | Analysis Time.: 11:04          | MS Run Number.: 0114045               |                         |
|              |               |                             |                    |            |                      | SD Lot-Sample #: COD230461-001 |                                       |                         |