

# FINAL SEMI-ANNUAL O&M REPORT REMEDIAL WORK ELEMENTS I, II AND IV REPORTING PERIOD JANUARY 1 THROUGH JUNE 30, 2010

## Malta Rocket Fuel Area Site Malta, New York

August 5, 2010

Submitted to:

General Electric Company Corporate Environmental Programs 319 Great Oaks Boulevard, Suite 319 Albany, New York 12203

Submitted by:

Shaw Environmental, Inc. 13 British American Boulevard Latham, New York 12110 **CERTIFICATION**: This document has been reviewed and is prepared in accordance with the contract documents.

neir Mullin

Brian Neumann, PG, CPG Project Manager

Mare C. H

Marc E. Flanagan Lead Operator/Project Geologist

envy Floraga

Jennifer Flanagan Project Scientist

# TABLE OF CONTENTS \_\_\_\_\_

| 1.0 INTRO  | DUCTION  | I       |
|--|--|---------|
| 2.0 O&M C  | OF REMEDIAL WORK ELEMENT I (DRINKING WATER)      | 2       |
| 2.2 Visu<br>2.2.1<br>2.2.2<br>2.2.3<br>2.3 Ope<br>2.3.1<br>2.3.2           | Blower Air Pressure                              | 2333331 |
| 2.4.1<br>3.0 O&M C   | Sample Collection                                |         |
| <ul><li>3.1 Sam</li><li>3.2 Chro</li><li>3.3 VOO</li><li>3.4 Com</li></ul> | pple Collection                                  | 5,5,5   |
| 4.0 INSTIT   | UTIONAL CONTROLS                                 | 7       |
| 5.0 SUMM   | ARY  | 3       |
|  | king Water<br>y Warning Monitoring System (EWMS) |         |
|  |  | ,       |

# LIST OF TABLES \_\_\_\_\_

- 1 Maintenance Checklist
- 2 Equipment Log
- 3 Process Operating Report
- 4 May 2010 Water Quality Analytical Results
- 5 Summary of Water Quality Analytical Results, Monitoring Wells DGC-3S, DGC-4S, and 13S
- 6 Summary of Water Quality Analytical Results, Monitoring Wells M-27S, M-27D, M-33S and M-33I
- 7 Summary of Water Quality Analytical Results, Monitoring Wells 4D, 11D, M-24D, M-25D, M-29D and 13D

## LIST OF FIGURES \_\_\_\_\_

- 1 Site Location Map
- 2 Well M-27D Carbon Tetrachloride Concentrations
- 3 Simulated Versus Observed Carbon Tetrachloride Concentrations at Well M-27D

## LIST OF APPENDICES\_\_\_\_\_

- A. Air Stripper Flow Data
- B. Laboratory Data, Groundwater Samples May 19 and 20, 2010
- C. Data Validation Report

## 1.0 INTRODUCTION

This operations and maintenance (O&M) report documents ongoing O&M activities conducted at the Malta Rocket Fuel Area (MRFA) Site, in the Town of Malta, New York. This report has been prepared in accordance with the following documents:

- <u>Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, dated</u> <u>March 31, 1998 and prepared by ERM - Northeast, Inc.</u>
- <u>Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, dated</u> January 15, 2002, and prepared by IT Corporation, Inc., currently Shaw <u>Environmental, Inc. (Shaw).</u>
- <u>Operations and Maintenance Manual, Remedial Work Element II, Groundwater, dated</u> <u>January 22, 1998 and prepared by ERM - Northeast, Inc.</u>, and <u>Addendum No. 1</u>, <u>January 31, 2005.</u>
- <u>Operation and Maintenance Manual, Remedial Work Element IV, Institutional</u> <u>Controls, dated September 9, 1999, revised September 27, 1999, prepared by IT</u> <u>Corporation, Inc., currently Shaw.</u>

This report covers all site activities performed at the Site, as required in each of the previously referenced documents, for the period from January 1 through June 30, 2010.

According to the provisions of the <u>Operation and Maintenance Manual, Remedial Work Element</u> <u>I, Drinking Water, IT Corporation, Inc., January 15, 2002</u>, six regularly scheduled monthly site visits were performed to inspect the groundwater treatment system (system) operation, record system operating conditions, and to determine system treatment effectiveness. The site visits took place on January 15, February 11, March 11, April 22, May 19, and June 16, 2010.

No alarm conditions were identified by the RTU during the reporting period. However, on February 11, 2010, Shaw received a call from the Luther Forest Technology Campus Economic Development Corporation (LFTCEDC) indicating that the boiler used to heat the building was broken. Shaw mobilized to the site and learned the building's temperature was low enough to freeze water in the settling tank. As a precaution the system was shut down and its electrical supply was locked out. LFTCEDC determined a pressure vessel, used by the facility to deliver the reservoir water, had failed and was leaking beyond repair. LFTCEDC made a decision to discontinue use of treatment system water supply.

Prior to system shut down, during the reporting period, recovery well RW-2D operated at a daily average flow rate of approximately 0.171 gallons per minute (gpm) (**Appendix A**). Due to the system shut down, system influent and effluent samples were not collected during the monitoring period. Details are provided in later sections of this report.

## 2.1 Remote Telemetry/Programmable Logic Controller

Prior to the system shut down on February 11, 2010, system operating parameters were visually monitored during the January monthly site visit and on a continual basis by a Remote Telemetry Unit (RTU) to ensure that the system operated continuously. The system is still monitored utilizing the RTU to ensure the system is still shutdown. During the reporting period, the RTU notified key project personnel of alarm conditions via facsimile and voice messaging.

## 2.2 Visual System Inspection

Although the system was shut down on February 11, 2010, visual inspections were made of all accessible system components during monthly site visits in accordance with attached **Table 1**, **Maintenance Checklist**. Inspections were performed to check for signs of component wear, process piping leaks and each of the general maintenance requirements. **Table 2, Equipment** 

Log, Air Stripper Maintenance includes a summary of observations made during the visual inspections.

Maintenance activities included regular inspection of the air stripper blower intake for obstructions, inspection of all process valves and piping to prevent leakage of untreated groundwater, and inspection of the air stripper sight tube for sediment buildup. In addition, the operation of the transfer sump pump and associated high level float were checked. The settling tank interior was also visually inspected for signs of sediment buildup or corrosion and the reservoir level was checked during each monthly visit.

## 2.2.1 Recovery Well Pump Inspection

The recovery wells were not inspected during this monitoring period due to the system being shut down.

## 2.2.2 100,000 Gallon Reservoir Inspection

The annual inspection of the 100,000 gallon reservoir was performed on May 19, 2010. The visual inspection of the reservoir did not reveal any problems. A hand held spotlight was used to assist personnel in the inspection of the interior reservoir walls. There were no signs of cracks in the concrete or any type of buildup or growth activity. The standpipe was observed to be in good condition. Only a few feet of standing water remained in the reservoir.

## 2.2.3 Air Stripper Tower Inspection

The air stripper tower was not inspected during this monitoring period due to the system being shut down. The tower is free of water.

## 2.3 Operating Measurements

## 2.3.1 Water Flow Measurements

Water flow measurements for well RW-2D was collected during monthly site visits as presented in **Table 3**, **Process Operating Report**. The instantaneous totalizer readings collected at the Site demonstrate average recovery well water flow rates for the period of January 1 to June 30, 2009 as follows:

| Well RW-1D: | 0.0000 gpm  |
|-------------|-------------|
| Well RW-2D: | 0. 2726 gpm |
| System Avg: | 0. 2726 gpm |

Average daily water flow data as recorded by the on-site data logger are provided in **Appendix A**. Information obtained from the data logger indicates an average daily water flow rate of 1.55 gpm for the system operating period (January 1 through 21 2010). The average water flow rate calculated from field observations during the limited operation period is statistically the same to the average daily water flow rate calculated from the data logger 1.55, confirming the data logger's accuracy and usefulness in verifying field observations.

## 2.3.2 Blower Air Pressure

Measurements of the air stripper blower back pressure were recorded on a weekly basis via RTU monitoring and during monthly O&M site visits. A pressure reading of 3.0 inches of water was also collected during the January 15, 2010 monthly O&M site visit from the pressure gauge installed to monitor the air stripper back pressure are provided in **Table 3**. No other readings were collected during monthly visits due to the system shut down on February 11, 2010. The recorded pressure reading was well within the acceptable range of readings that are specified in the <u>Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, IT Corporation, Inc., January 15, 2002</u>.

## 2.4 Water Quality Data

## 2.4.1 Sample Collection

Samples of the drinking water system influent and effluent were not collected during this monitoring period due to the system shut down on February 11, 2010.

## 3.1 Sample Collection

Modifications to the Early Warning Monitoring System (EWMS) monitoring program have been specified in <u>Addendum No. 1, Operations and Maintenance Manual, Remedial Work Element II-</u><u>Groundwater, Malta Rocket Fuel Area Site, General Electric Company, January 31, 2005</u> (Addendum No. 1). In accordance with the <u>Operations and Maintenance Manual for Remedial</u> <u>Work Element II - Ground Water, ERM Northeast, Inc., January 22, 1998</u>, (O&M-GW) and Addendum No. 1, unfiltered groundwater samples were collected on May 12 and 13, 2009 from the EWMS. In accordance with the <u>Five-Year Review Report, Malta Rocket Fuel Area</u> <u>Superfund site, United States Environmental Protection Agency (EPA), September 24, 2004</u> (Five Year Review Report) including a table titled <u>"Proposed Modifications to Groundwater and</u> <u>Surface Water Sampling Regimes at the Malta Rocket Fuel Area Site"</u> and a letter from GE to the USEPA dated October 26, 2004, EWMS samples were collected from monitoring wells DGC-3S, DGC-4S, 4D, 11D, 13D, 14D, M-24DR, M-25D, M-27D, M-29D (Figure 1). Blind duplicate samples were collected from well 13D for VOCs, chromium and hexavalent chromium. Trip blanks were also analyzed.

Samples from all designated monitoring well sampling locations were analyzed for VOCs by USEPA Method OLC-02.1 by Columbia Analytical Services, Inc. in Rochester, New York. Samples from wells 13D and 27D were also analyzed for unfiltered total matrix chromium following CLP procedures and unfiltered hexavalent chromium by SW-846 Method 7196 (*Test Methods for Evaluating Solid Waste*, 3rd Edition, November 1986). Results of the May 2010 semi-annual EWMS sampling event are summarized in **Table 4**. The laboratory reports are presented in **Appendix B**. The data validation report is included in **Appendix C**. A summary of analytical results from 1987 through this reporting period for samples collected at locations currently included in the EWMS sampling program is provided in **Tables 5**, **6**, and **7**.

In accordance with the O&M-GW, time vs. concentration plots for carbon tetrachloride at monitoring well M-27D are included as **Figure 2. Figure 3** includes a comparison of simulated versus observed concentrations of carbon tetrachloride at monitoring well M-27D.

## 3.2 Chromium Analytical Results

Results of the unfiltered total chromium analysis collected in May 2010 at wells 13D and 27D indicated estimated concentrations of 3.4  $\mu$ g/l and 1.1  $\mu$ g/l, respectively. These concentrations are below the New York State Ground Water Standard (NYSGWS) of 50  $\mu$ g/l.

Analytical results showed no detectable concentrations of hexavalent chromium at the method detection limit of 10  $\mu$ g/l for both groundwater samples (13D & M-27D). The NYSGWS for hexavalent chromium is 50  $\mu$ g/l.

## 3.3 VOC Analytical Results

Carbon tetrachloride was detected in monitoring wells M-24DR, M-25D, M-27D and M-29D at concentrations of 5.5  $\mu$ g/l, 35  $\mu$ g/l, 4.2  $\mu$ g/l, and 28  $\mu$ g/l, respectively. All other monitoring well sample locations were non-detect for carbon tetrachloride during the reporting period. The time vs. concentration plot for carbon tetrachloride in well M-27D is presented in **Figure 2**.

Chloroform was detected in monitoring wells 11D and M-29D at concentrations of 1.3  $\mu$ g/l and 2.8  $\mu$ g/l, respectively. In addition chloroform was detected at estimated concentrations in monitoring wells M-24DR and M-25D at concentrations of 0.25  $\mu$ g/l and 3.0  $\mu$ g/l, respectively.

Trichloroethene (TCE) was detected in monitoring wells in M-24DR, M-25D, M-27D, M-29D and 11D at concentrations of 18  $\mu$ g/l, 76  $\mu$ g/l, 9.3  $\mu$ g/l, 21  $\mu$ g/l and 1.5  $\mu$ g/l respectively. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 4.2  $\mu$ g/l. TCE, and 1,1,1-trichloroethane were not detected at the remainder of the monitoring well locations during this reporting period. The NYSGWS for TCE, trichloroethane and 1,1,1-trichloroethane is 5  $\mu$ g/l.

## *3.4 Comparison of Observed VOC Concentrations to Simulation Results*

Carbon tetrachloride and TCE concentrations detected during this monitoring period were compared to the results from the contaminant fate and transport modeling reported in **Appendix A** of the O&M-GW. The comparison was performed for carbon tetrachloride in monitoring well M-27D (**Figure 3**). As shown in **Figure 3**, the simulated carbon tetrachloride results are much higher than the observed concentrations.

O&M activities for remedial Work Element IV, Institutional Controls, are conducted on an annual basis. Shaw conducts visual inspections of the environmental restriction zone during each of the semi-annual groundwater sampling activities. An evaluation of environmental easement restrictions is performed each fall via interviews with property owner representatives.

## 5.0 SUMMARY

## 5.1 Drinking Water

As approved by the EPA, groundwater was no longer being used as potable water and the drinking water treatment system was shut down on February 11, 2010. Prior to shut down, the system was operating effectively.

## 5.2 Early Warning Monitoring System (EWMS)

The analytical results from this reporting period are summarized as follows:

- Total chromium was detected at monitoring wells 13D and 27D. The Chromium detections collected from these monitoring wells were below the NYSGWS of 50  $\mu$ g/l.
- Hexavalent chromium was not detected at the any of the monitoring well locations.
- Carbon tetrachloride was detected in monitoring wells M-24DR, M-25D, M-27D and M-29D, at concentrations of 5.5 µg/l, 35 µg/l, 4.2 µg/l, and 28 µg/l, respectively. The NYSGWS for carbon tetrachloride is 5 µg/l. All other water sample locations were non-detect for carbon tetrachloride during the reporting period.
- Chloroform was detected in monitoring wells 11D and M-29D at concentrations of 1.3  $\mu g/l$  and 2.8  $\mu g/l$ , respectively. In addition chloroform was detected at estimated concentrations in monitoring wells M-24DR and M-25D at concentrations of 0.25  $\mu g/l$  and 3.0  $\mu g/l$ , respectively. The NYSGWS for chloroform is 7  $\mu g/l$ .
- TCE was detected in monitoring wells in M-24DR, M-25D, M-27D, M-29D and 11D at concentrations of 18  $\mu$ g/l, 76  $\mu$ g/l, 9.3  $\mu$ g/l, 21  $\mu$ g/l and 1.5  $\mu$ g/l respectively. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 4.2  $\mu$ g/l. TCE, and 1,1,1-trichloroethane were not detected at the remainder of the monitoring well locations during this reporting period. The NYSGWS for TCE and 1,1,1-trichloroethane is 5  $\mu$ g/l.
- As shown in **Figure 3**, simulated concentrations of carbon tetrachloride are much higher than the observed concentrations.

# **TABLES**

### TABLE 1 MAINTENANCE CHECKLIST OPERATION AND MAINTENANCE PLAN TEST STATION WATER SUPPLY AND TREATMENT SYSTEM MALTA ROCKET FUEL AREA SITE

| Equipment Name            | ltem             | Action   | Frequency     | Comments  |
|---------------------------|------------------|--|---------------|---|
| Well Pump 1D              | Pump bowls       | Check for signs of iron fouling & impeller<br>wear | Annually      | More frequently if problems occur                     |
| Well Pump 2D              | Pump bowls       | Check for signs of iron fouling & impeller<br>wear | Annually      | More frequently if problems occur                     |
| Control Valves            | Miscellaneous    | Inspect for leaks                                  | Monthly       | Exercise valves annually                              |
| Air Stripper Sight Tube   |                  | Inspect for siltation and biofouling               | Monthly       | Adjust frequency depending<br>on operating experience |
| Air Stripper Spray Nozzle |                  | Inspect for fouling                                | Annually      | No required routine maintenance                       |
| Air Stripper Blower       | Intake           | Inspect and clean                                  | Monthly       | Adjust frequency depending<br>on operating experience |
| Air Stripper Blower       | Motor & bearings | Check and lubricate                                | Annually      | More frequently as problems occur                     |
| Air Stripper Unit         | Packing          | Clean or replace                                   | Every 5 years | Adjust frequency depending<br>on operating experience |

### TABLE 1 MAINTENANCE CHECKLIST OPERATION AND MAINTENANCE PLAN TEST STATION WATER SUPPLY AND TREATMENT SYSTEM MALTA ROCKET FUEL AREA SITE

| Equipment Name                           | ltem                                      | Action   | Frequency | Comments  |
|--|---|--|-----------|---|
| Mist Eliminator                          | Mesh screen                               | Clean or replace   | Annually  | Adjust frequency depending on operating experience    |
| Settling Tank                            |   | Inspect for siltation  | Monthly   | Adjust frequency depending on operating experience    |
| Settling Tank High Level<br>Float Switch |   | Check operation  | Monthly   | Replace float switch every 5 years                    |
| 100K Gallon Reservoir                    |   | Inspect for siltation, debris, etc.  | Annually  | Adjust frequency depending on operating experience    |
| Level Sensor                             | Probe                                     | Manually check start-up/shutdown. Check<br>probe float for free range of motion.<br>Remove and inspect for buildup of minerals<br>if resistance is detected. | Monthly   | Adjust frequency depending on operating experience    |
| Misc. Guys, Hardware<br>etc.             |   | Inspect  | Annually  | Adjust frequency depending on operating experience    |
| System Interlocks                        | Settling Tank<br>High Level<br>Blower Low | Check for proper operation. System should alarm after pre-set delay period.  | Monthly   | Adjust frequency depending<br>on operating experience |
|  | Pressure<br>Blower Low<br>Amps            |  |           |   |
|  | Building Low<br>Temperature               |  |           |   |

### TABLE 2 EQUIPMENT LOG, AIR STRIPPER MAINTENANCE MALTA ROCKET FUEL AREA SITE

| Date     | Operator                            | Operational Status<br>of System     | Work Performed   |
|----------|-------------------------------------|-------------------------------------|--|
| 01/15/10 | Brian Neumann/<br>John Moyer        | Arrival – OK<br>Departure – OK      | Monthly O&M visit. System interlock testing performed – all OK   |
| 02/11/10 | Marc Flanagan/<br>Jennifer Flanagan | Arrival – Not OK<br>Departure – Off | System Shut Down - boiler not functioning, water frozen in sight tube for air stripper. System shut down and winterized. |
| 03/11/10 | Brian Neumann                       | Arrival – Off<br>Departure – Off    | Monthly O&M visit. RW-1D and RW-2D still locked out. Reservoir showing 2 feet of water.                                  |
| 04/19/10 | Brian Neumann/<br>Marc Flanagan     | Arrival – Off<br>Departure – Off    | Repair of damaged monitoring wells 11S and 11D.  |
| 04/22/10 | Brian Neumann/<br>Marc Flanagan     | Arrival – Off<br>Departure – Off    | Monthly O&M visit. RW-1D and RW-2D still locked out.   |
| 05/19/10 | Marc Flanagan                       | Arrival – Off<br>Departure – Off    | Monthly O&M visit. RW-1D and RW-2D still locked<br>out. Reservoir empty. Collect samples from<br>monitoring wells.       |
| 06/16/10 | Marc Flanagan                       | Arrival - Off<br>Departure – Off    | Monthly O&M visit. RW-1D and RW-2D still locked out.   |

### TABLE 3 PROCESS OPERATING REPORT WATER TREATMENT SYSTEM MALTA ROCKET FUEL AREA SITE

| 1          | 2     | 3                                    |                                  |                           |                                 |                                     | 4                                    |                                  |                           |                                 |                                     | 5   |
|------------|-------|--------------------------------------|----------------------------------|---------------------------|---------------------------------|-------------------------------------|--------------------------------------|----------------------------------|---------------------------|---------------------------------|-------------------------------------|---|
| DATE       | TIME  |                                      | WATER FI                         | LOWLINE 1                 | D                               |                                     |                                      | WAT                              | ER FLOWLI                 | NE 2D                           |                                     | PROBLEMS OR COMMENTS  |
|            |       | 1D LINE<br>FLOW<br>METER<br>RDG(GPM) | 1D LINE<br>TOTALIZER<br>RDG(GAL) | ELAPSED<br>TIME<br>(DAYS) | TOTAL<br>FLOW<br>THIS<br>PERIOD | AVG FLOW<br>THIS<br>PERIOD<br>(GPM) | 2D LINE<br>FLOW<br>METER<br>RDG(GPM) | 2D LINE<br>TOTALIZER<br>RDG(GAL) | ELAPSED<br>TIME<br>(DAYS) | TOTAL<br>FLOW<br>THIS<br>PERIOD | AVG FLOW<br>THIS<br>PERIOD<br>(GPM) |   |
|            |       |                                      |                                  |                           | (GAL)                           |                                     |                                      |                                  |                           | (GAL)                           |                                     |   |
| 12/23/2009 | 9:00  | 0.0                                  | 4,703,000                        | 21                        | NA                              | NA                                  | 6.6                                  | 7,823,000                        | 21                        | NA                              |                                     | Recorded in previous report, replicated here<br>for calculation purposes. |
| 1/15/2010  | 9:00  | 0.0                                  | 4,703,000                        | 23                        | 0                               | 0.00                                | 6.7                                  | 7,854,300                        | 23                        | 31,300                          | 0.95                                | RW-1 is on LOTO   |
| 2/11/2010  | 15:50 | 0.0                                  | 4,703,000                        | 27                        | 0                               | 0.00                                | 0.0                                  | 7,891,700                        | 27                        | 37,400                          | 0.96                                | RW-1 and RW-2 are on LOTO   |
| 3/11/2010  | 11:00 | 0.0                                  | 4,703,000                        | 28                        | 0                               | 0.00                                | 0.0                                  | 7,891,700                        | 28                        | 0                               | 0.00                                | RW-1 and RW-2 are on LOTO   |
| 4/19/2010  | 10:40 | 0.0                                  | 4,703,000                        | 39                        | 0                               | 0.00                                | 0.0                                  | 7,891,700                        | 39                        | 0                               | 0.00                                | RW-1 and RW-2 are on LOTO   |
| 4/22/2010  | 9:40  | 0.0                                  | 4,703,000                        | 3                         | 0                               | 0.00                                | 0.0                                  | 7,891,700                        | 3                         | 0                               | 0.00                                | RW-1 and RW-2 are on LOTO   |
| 5/19/2010  | 12:30 | 0.0                                  | 4,703,000                        | 27                        | 0                               | 0.00                                | 0.0                                  | 7,891,700                        | 27                        | 0                               | 0.00                                | RW-1 and RW-2 are on LOTO   |
| 6/16/2010  | 14:00 | 0.0                                  | 4,703,000                        | 28                        | 0                               | 0.00                                | 0.0                                  | 7,891,700                        | 28                        | 0                               | 0.00                                | RW-1 and RW-2 are on LOTO   |
| Summary    |       |                                      |                                  | 175                       | 0                               | 0.0000                              |                                      |                                  | 175                       | 68,700                          | 0.2726                              |   |

NR = Not Recorded

NA = Not Applicable

LOTO = Lock Out Tag Out

### TABLE 3 PROCESS OPERATING REPORT WATER TREATMENT SYSTEM MALTA ROCKET FUEL AREA SITE

| 1         | 2     | 3         |   |         | 4         | 5   |
|-----------|-------|-----------|---|---------|-----------|---|
|           |       |           |   |         |           |   |
| DATE      | TIME  | STANDPIPE | LEVEL                                     | SAMPLES | AIR       | PROBLEMS OR COMMENTS  |
|           |       | LEVEL     | PROBE                                     | TAKEN ? | BLOWER    |   |
|           |       | (FT)      | OK?                                       |         | PRESSURE  |   |
|           |       |           |   |         | OK?       |   |
| 1/15/2010 | 9:00  |           | Manual<br>check, fill<br>tube not<br>read | No      | Yes - 3.0 | Monthly O&M visit. Interlock checks OK. RW-1 remains<br>LOTO. Faulty pressure tank continues to leak.                       |
| 2/11/2010 | 15:50 |           | System off                                | No      | No        | System Shut Down. RW-1 and RW-2 are LOTO. Facility cant deliver water. Reservoir near empty.                                |
| 3/11/2010 | 11:00 |           | System off                                | No      | No        | Monthly O&M visit. System Remains Off, RW-1 and RW-<br>2 remain LOTO. Facility cant deliver water. Reservoir<br>near empty. |
| 4/19/2010 | 10:40 |           | System off                                | No      | No        | Well Repair Visit. System Remains Off, RW-1 and RW-2 remain LOTO.   |
| 4/22/2010 | 9:40  |           | System off                                | No      | No        | Monthly O&M visit. System Remains Off, RW-1 and RW-2 remain LOTO.   |
| 5/19/2010 | 12:30 |           | System off                                | No      | No        | Monthly O&M visit. System Remains Off, RW-1 and RW-2 remain LOTO.   |
| 6/16/2010 | 14:00 |           | System off                                | No      | No        | Monthly O&M visit. System Remains Off, RW-1 and RW-2 remain LOTO.   |

Notes:

LOTO = Lock Out Tag Out

-- = Water was not visible

### TABLE 4 MAY 2010 WATER QUALITY ANALYTICAL RESULTS SEMI-ANNUAL SAMPLING

|                        | Remedial<br>Action |      |        |        |      |       |      |        |       |       | DUP A   |
|------------------------|--------------------|------|--------|--------|------|-------|------|--------|-------|-------|---------|
| Compound               | Objective          | 4D   | DGC-3S | DGC-4S | 11D  | 13D   | 14 D | M-24DR | M-25D | M-27D | M-27D   |
| Acetone                | 50                 | 5 UJ | 5 UJ   | 5 UJ   | 5 UJ |       | 5 UJ | 5 UJ   | 25 UJ | 5 UJ  | 5 UJ    |
| Carbon Disulfide       | None*              | 1 U  | 1 U    | 1 U    | 1 U  |       | 1 U  | 1 U    | 5 U   | 1 U   | 1 U     |
| Carbon Tetrachloride   | 5                  | 1 U  | 1 U    | 1 U    | 11   |       | 1 U  | 5.5    | 35    | 4.2   | 4.8     |
| Chloroform             | 7                  | 1 U  | 1 U    | 1 U    | 1.3  |       | 1 U  | 0.25 J | 3.0 J | 1 U   | 1 U     |
| 2-Butanone             | 5                  | 5 U  | 5 U    | 5 U    | 5 U  |       | 5 UJ | 5 U    | 25 U  | 5 U   | 5 U     |
| Trichloroethene        | 5                  | 1 U  | 1 U    | 1 U    | 1.5  |       | 1 U  | 18     | 76    | 9.3   | 10      |
| Trichlorofluoromethane | 5*                 | 1 U  | 1 U    | 1 U    | 1 U  |       | 1 U  | 1 U    | 5 U   | 1 U   | 1 U     |
| 1,1,1-Trichloroethane  | 5                  | 1 U  | 1 U    | 1 U    | 1 U  |       | 1 U  | 1 U    | 5 U   | 1 U   | 1 U     |
| 1,1-Dichloroethene     | NP                 | 1 U  | 1 U    | 1 U    | 1 U  |       | 1 U  | 1 U    | 5 U   | 1 U   | 1 U     |
| Chromium               | 50*                | NA   | NA     | NA     | NA   | 3.4 J | NA   | NA     | NA    | 1.1 J | 0.861 J |
| Hexavalent Chromium    | 50*                | NA   | NA     | NA     | NA   | 10 U  | NA   | NA     | NA    | 10 U  | 10 U    |

#### Field Parameters

| pH                            | <br>7.48   | 6.23   | 7.26   | 7.23   | 7.19   | 7.24   | 8.13   | 6.39   | 7.15   |  |
|-------------------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Temperature (celsius)         | <br>9.19   | 8.38   | 11.25  | 10.02  | 10.11  | 9.3    | 9.71   | 10.05  | 10.01  |  |
| Conductivity (umhos/cm)       | <br>0.135  | 0.480  | 0.201  | 0.322  | 0.278  | 0.29   | 0.263  | 0.405  | 0.274  |  |
| Dissolved Oxygen              | <br>0.0    | 6.51   | 3.49   | 8.4    | 0.0    | 11.5   | 9.28   | 8.41   | 9.24   |  |
| Turbidity (NTUs)              | <br>47.0   | 39.3   | 34.4   | 10.2   | 56.4   | 10.1   | 3.5    | 4.0    | 4.7    |  |
| Depth To Water (feet)         | <br>35.35  | 10.60  | 4.38   | 26.5   | 32.75  | 38.41  | 34.33  | 26.90  | 35.80  |  |
| Ground Water Elevation (feet) | <br>170.45 | 195.20 | 201.42 | 302.77 | 296.52 | 290.86 | 286.24 | 287.56 | 268.47 |  |

Notes:

1. All analytical concentrations are in  $\mu g/l$  (micrograms per liter (ppb))unless otherwise noted.

2. Only compounds detected at one or more sampling points are listed.

3. NA - not analyzed for.

4. U - analyte was not detected, and value shown is the detection limit.

5. J - estimated value due to data validation requirements or concentration less than CRQL (organics only).

6. B - The reported value is less than the CRDL but greater than the IDL (inorganics only).

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified for comparison purposes only.

\*\* Analyical concentrations are in mg/l (milligrams per liter (ppm))

7. D - Indentifies all compounds analyzed at a secondary dilution factor.

8. NM - Not measured due to equipment malfunction.

9. NP - Not promulgated.

### TABLE 4 MAY 2010 WATER QUALITY ANALYTICAL RESULTS SEMI-ANNUAL SAMPLING

|                        | Remedial  |       |       |       |        |      |      |      |      |      |      |
|------------------------|-----------|-------|-------|-------|--------|------|------|------|------|------|------|
|                        | Action    |       | Trip  | Trip  | Cooler |      |      |      |      |      |      |
| Compound               | Objective | M-29D | Blank | Blank | Blank  | SW-A | SW-B | SW-D | SW-E | SW-F | SW-G |
| Acetone                | 50        | 10 UJ | 2.3 J | 1.4 J | 5 UJ   |      |      |      |      |      |      |
| Carbon Disulfide       | None*     | 2 U   | 1 U   | 1 U   | 1 U    |      |      |      |      |      |      |
| Carbon Tetrachloride   | 5         | 28    | 1 U   | 1 U   | 1 U    |      |      |      |      |      |      |
| Chloroform             | 7         | 2.8   | 1 U   | 1 U   | 1 U    |      |      |      |      |      |      |
| 2-Butanone             | 5         | 10 U  | 5 U   | 5 U   | 5 U    |      |      |      |      |      |      |
| Trichloroethene        | 5         | 21    | 1 U   | 1 U   | 1 U    |      |      |      |      |      |      |
| Trichlorofluoromethane | 50*       | 2 U   | 1 U   | 1 U   | 1 U    |      |      |      |      |      |      |
| 1,1,1-Trichloroethane  | 5         | 4.2   | 1 U   | 1 U   | 1 U    |      |      |      |      |      |      |
| 1,1-Dichloroethene     | NP        | 2 U   | 1 U   | 1 U   | 1 U    |      |      |      |      |      |      |
| Chromium               | 50*       | NA    | NA    | NA    | NA     |      |      |      |      |      |      |
| Hexavalent Chromium    | 50*       | NA    | NA    | NA    | NA     |      |      |      |      |      |      |

#### Field Parameters

| pH                            | <br>6.8    | <br> | <br> | <br> | <br> |  |
|-------------------------------|------------|------|------|------|------|--|
| Temperature (celsius)         | <br>10.27  | <br> | <br> | <br> | <br> |  |
| Conductivity (umhos/cm)       | <br>0.38   | <br> | <br> | <br> | <br> |  |
| Dissolved Oxygen              | <br>9.01   | <br> | <br> | <br> | <br> |  |
| Turbidity (NTUs)              | <br>3.5    | <br> | <br> | <br> | <br> |  |
| Depth To Water (feet)         | <br>42.27  | <br> | <br> | <br> | <br> |  |
| Ground Water Elevation (feet) | <br>292.39 | <br> | <br> | <br> | <br> |  |

#### Notes:

1. All analytical concentrations are in  $\mu g/l$  (micrograms per liter (ppb))unless otherwise noted.

2. Only compounds detected at one or more sampling points are listed.

3. NA - not analyzed for.

4. U - analyte was not detected, and value shown is the detection limit.

5. J - estimated value due to data validation requirements or concentration less than CRQL (organics only).

6. B - The reported value is less than the CRDL but greater than the IDL (inorganics only).

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified for comparison purposes only.

\*\* Analyical concentrations are in mg/l (milligrams per liter (ppm))

7. D - Indentifies all compounds analyzed at a secondary dilution factor.

8. NM - Not measured due to equipment malfunction.

9. NP - Not promulgated.

|                              | Remedial     |          |         |         |           |             |           |          |         |         |         |           |
|------------------------------|--------------|----------|---------|---------|-----------|-------------|-----------|----------|---------|---------|---------|-----------|
| Wells / Compounds            | Action       | 6/29-    |         |         | 1/19-     | 4/18-       | 7/20-     | 10/11-   | 1/19-   |         |         |           |
| DGC-3S                       | Objective    | 7/1/1987 | 7/31/87 | 11/5/87 | 1/20/1988 | 4/19/1988   | 7/21/1988 | 10/12/88 | 1/20/89 | 4/10/89 | 7/12/89 | 8/15/1989 |
| Benzene                      | 0.7*         | ND       | NA      | ND      | ND        | ND          | ND        | ND       | ND      | ND      | ND      | ND        |
| Carbon Disulfide             | None*        | ND       | NA      | ND      | ND        | ND          | ND        | ND       | NA      | ND      | ND      | ND        |
| Aluminum                     | 100*         | 0.48     | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Lead                         | 25*          | NA       | NA      | NA      | NA        | <0.005 mg/L | NA        | NA       | NA      | NA      | NA      | NA        |
| Chromium                     | 50*          | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Hexavalent Chromium          | 50*          | no data  | no data | no data | no data   | no data     | no data   | no data  | no data | no data | no data | no data   |
| Carbon Disulfide<br>Chromium | None*<br>50* |          |         |         |           |             |           |          |         |         |         |           |
| DGC-4S                       |              |          |         |         | 1         |             |           |          | 1       |         |         |           |
|                              |              |          |         |         |           |             |           |          |         |         |         |           |
| 138                          |              |          | 1       |         |           |             |           | 1        |         |         |         | 1         |
| Benzene                      | 0.7*         | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Carbon Disulfide             | None*        | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Carbon Tetrachloride         | 5            | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Chloroform                   | 7            | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Trichloroethene              | 5            | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Trichlorofluoromethane       | 5*           | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Chromium                     | 50*          | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |
| Hexavalent Chromium          | 50*          | NA       | NA      | NA      | NA        | NA          | NA        | NA       | NA      | NA      | NA      | NA        |

Notes:

Units are  $\mu g/l$  (ppb) unless otherwise stated. Only detected compounds are listed. NA = Not analyzed. ND = Not detected. NS = Not sampled. B = The reported value is less than the CRQL/CRDL but greater than the IDL. dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

- - = Not sampled: well installed in December, 1990.

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

\*\* = Filtered Sample.

See RI report for additional data.

|                            | Remedial  |            |          |         |         |             |             |           |               |                      |          |           |
|----------------------------|-----------|------------|----------|---------|---------|-------------|-------------|-----------|---------------|----------------------|----------|-----------|
| Wells / Compounds          | Action    |            |          |         |         | 4/8-        | 6/12-       | 9/23-     | 12/26-        | 2/10-                | 6/1-     | 9/28-     |
| DGC-3S                     | Objective | 11/30/1989 | 5/30/90  | 8/28/90 | 12/6/90 | 4/10/1991   | 6/13/1991   | 9/24/1991 | 12/27/91      | 2/11/92              | 6/2/1992 | 9/29/1992 |
| Benzene                    | 0.7*      | ND         | ND       | ND      | ND      | ND          | ND          | 0.2 J     | ND            | ND/NDdp              | ND       | ND        |
| Carbon Disulfide           | None*     | ND         | ND       | ND      | NA      | 8 V / 7 Vdp | 4           | ND        | ND            | ND/NDdp              | ND       | ND        |
| Aluminum                   | 100*      | NA         | NA       | NA      | NA      | NA          | NA          | NA        | NA            | NA                   | NA       | NA        |
| Lead                       | 25*       | NA         | NA       | NA      | NA      | NA          | NA          | NA        | NA            | NA                   | NA       | NA        |
| Chromium                   | 50*       | NA         | NA       | NA      | NA      | NA          | NA          | 6.1       | 62.2E/70.3Edp | 16.2/ND*, 14.6/ND*dp | 25.2/ND* | ND        |
| Hexavalent Chromium        | 50*       | no data    | NA       | NA      | NA      | NA          | NA          | NA        | NA            | ND/4*/ND dp          | NA       | NA        |
| DGC-4S<br>Carbon Disulfide | None*     |            |          |         |         | ND/0.5Vdp   | ND          | ND        | ND            | ND                   | ND       | ND/ND dp  |
|                            |           |            |          |         |         |             |             |           |               |                      |          |           |
| Chromium                   | 50*       |            |          |         |         | NA          | NA          | 15.9      | 11.9 E        | ND/ND*               | ND/ND*   | ND/ND dp  |
| 135                        |           |            |          |         |         |             |             |           |               |                      |          |           |
| Benzene                    | 0.7*      | NA         | NA       | NA      | NA      | 2           | 0.7/0.6 Jdp | 1         | ND            | ND                   | ND       | ND        |
| Carbon Disulfide           | None*     | NA         | NA       | NA      | NA      | 60 D        | 0.6         | ND        | ND            | ND                   | ND       | ND        |
| Carbon Tetrachloride       | 5         | NA         | 18/16 dp | 6.4     | 4.4     | 8           | 24 J/24 Jdp | 8         | 12            | 9                    | 6 J      | 9         |
| Chloroform                 | 7         | NA         | ND       | ND      | ND      | ND          | 0.8/0.9 Jdp | ND        | 0.4 J         | 0.3 J                | ND       | ND        |
|                            |           |            |          |         |         |             |             |           |               |                      |          |           |

| o |  |  |
|---|--|--|
|   |  |  |

5

5\*

50\*

 $50^{*}$ 

Units are µg/l (ppb) unless otherwise stated. Only detected compounds are listed. NA = Not analyzed. ND = Not detected. NS = Not sampled.  $B=\mbox{The reported value is less than the CRQL/CRDL but greater than the IDL.$ 

ND

ND

NA

NA

ND

ND

NA

NA

ND

ND

NA

NA

dp = Duplicate sample.

NA

NA

NA

NA

E = Estimated concentration: due to interference. D = Concentration determined from a sample dilution.

J = Estimated concentration.

ND

ND

336 V

NA

V = Estimated concentration: due to variance to quality control limits.

ND

ND

NA

NA

0.4 J

ND

269/261\*\*

280

0.9

ND

316 E/562 E\*\*

486/302\*\*

0.6

ND

282/498\*\* 260/310\*\* ND

ND

504/512\*\*

NA

0.6

0.5

179/172\*\*

287

- - = Not sampled: well installed in December, 1990.

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

\*\* = Filtered Sample.

See RI report for additional data.

X:\MG\MRFA\Jan Thru June 2010\Tables 4-7.xlsx

Trichloroethene

Chromium

Trichlorofluoromethane

Hexavalent Chromium

|                            | Remedial  |            |           |           |           |           |                        |              |               |                 |           |            |
|----------------------------|-----------|------------|-----------|-----------|-----------|-----------|------------------------|--------------|---------------|-----------------|-----------|------------|
| Wells / Compounds          | Action    | 11/18-     | 3/17-     | 5/25-     | 8/24-     | 11/8-     | 2/22-                  | 5/18-        | 8/24-         | 11/15-          |           |            |
| DGC-3S                     | Objective | 11/19/1992 | 3/18/1993 | 5/26/1993 | 8/25/1993 | 11/9/1993 | 2/23/1994              | 5/19/1994    | 8/25/1994     | 11/16/1994      | 5/23/1995 | 10/17/1995 |
| Benzene                    | 0.7*      | ND         | ND        | ND        | ND        | ND        | ND                     | ND V         | ND            | ND              | ND        | ND         |
| Carbon Disulfide           | None*     | ND         | ND        | ND        | 0.8       | ND        | ND                     | ND V         | ND            | ND              | ND        | ND         |
| Aluminum                   | 100*      | NA         | NA        | NA        | NA        | NA        | NA                     | NA           | NA            | NA              | NA        | NA         |
| Lead                       | 25*       | NA         | NA        | NA        | NA        | NA        | NA                     | NA           | NA            | NA              | NA        | NA         |
| Chromium                   | 50*       | 33.6/ND*   | 18.5      | 4.3 B     | 4.7B      | 19.4      | 23.9                   | 4.5 B        | 9.9 B         | 11.1            | NA        | NA         |
| Hexavalent Chromium        | 50*       | NA         | NA        | NA        | NA        | NA        | NA                     | NA           | NA            | NA              | NA        | NA         |
| DGC-4S<br>Carbon Disulfide | None*     | 4 V        | ND        | 0.3 J     | 0.2J      | ND        | ND                     | ND V/ND V dp | ND            | ND              | ND        | ND         |
|                            |           |            |           |           |           |           |                        | 1            |               |                 |           |            |
| Chromium                   | 50*       | 8.6 B      | 48.1/ND*  | ND        | 3.3B      | ND        | 31.2/ND*               | ND/ND dp     | 5.6 B         | ND              | NA        | NA         |
| 138                        |           |            |           |           | T         |           |                        |              | 1             | 1               |           |            |
| Benzene                    | 0.7*      | 0.4 JV     | ND        | ND        | ND        | ND        | ND/ND dp               | ND           | ND            | ND              | NA        | NA         |
| Carbon Disulfide           | None*     | ND         | ND        | ND        | ND        | ND        | ND/ND dp               | ND           | ND            | ND              | NA        | NA         |
| Carbon Tetrachloride       | 5         | 16 V       | 15        | 10        | 17        | 18        | 20/9 dp                | 9            | 9             | 9               | NA        | NA         |
| Chloroform                 | 7         | 0.6 V      | 0.6       | 0.4 J     | 0.6       | 0.7       | ND/ND dp               | 0.4 J        | 0.3 J         | ND              | NA        | NA         |
| Trichloroethene            | 5         | 1 V        | 2         | 0.6       | ND        | 2         | 2/1 dp                 | 0.8          | 1             | 0.9             | NA        | NA         |
| Trichlorofluoromethane     | 5*        | 0.9 V      | 2         | 0.5       | ND        | 2         | 2/1 dp                 | 0.9          | 1             | ND              | NA        | NA         |
| Chromium                   | 50*       | 585/576**  | 746/614** | 198/609** | 787/716** | 572/610** | 580/357** 567/357** dp | 406/434**    | 133 V/157 V** | 44.2 V/95.8 V** | 140 J     | 52.7 J     |
| Hexavalent Chromium        | 50*       | 493        | 663       | 460       | 800       | 560       | 530/540 dp             | 340          | 101           | 36              | 150       | 48         |

Notes:

Units are µg/l (ppb) unless otherwise stated. Only detected compounds are listed. NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

 $B=\mbox{The reported value is less than the CRQL/CRDL but greater than the IDL.}$ 

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

- - = Not sampled: well installed in December, 1990.

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

\*\* = Filtered Sample.

See RI report for additional data.

|                        | Remediai  |           |            |             |            |           |            |           |            |           |            |           |
|------------------------|-----------|-----------|------------|-------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| Wells / Compounds      | Action    |           |            |             |            |           |            |           |            |           |            |           |
| DGC-3S                 | Objective | 5/14/1996 | 10/23/1996 | 6/2/1997    | 10/14/1997 | 5/28/1998 | 10/29/1998 | 5/11/1999 | 10/26/1999 | 5/22/2000 | 10/24/2000 | 5/15/2001 |
| Benzene                | 0.7*      | ND        | ND         | ND          | ND         | ND        | ND         | ND        | ND         | ND        | ND         | ND        |
| Carbon Disulfide       | None*     | ND        | ND         | ND          | ND         | ND        | ND         | ND        | ND         | ND        | ND         | ND        |
| Aluminum               | 100*      | NA        | NA         | NA          | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Lead                   | 25*       | NA        | NA         | NA          | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Chromium               | 50*       | NA        | NA         | NA          | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Hexavalent Chromium    | 50*       | NA        | NA         | NA          | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
|                        |           |           |            |             |            |           |            |           |            |           |            |           |
| DGC-4S                 |           |           |            |             |            |           |            |           |            |           |            |           |
| Carbon Disulfide       | None*     | ND        | ND         | ND          | ND         | ND        | ND         | ND        | ND         | ND        | ND         | ND        |
| Chromium               | 50*       | NA        | NA         | NA          | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
|                        |           |           |            |             |            |           |            |           |            |           |            |           |
| 138                    |           |           |            |             |            |           |            |           |            |           |            |           |
| Benzene                | 0.7*      | NA        | NA         | 1U          | 1U         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Carbon Disulfide       | None*     | NA        | NA         | 1U          | 1U         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Carbon Tetrachloride   | 5         | NA        | NA         | 1U          | 8          | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Chloroform             | 7         | NA        | NA         | 1U          | 1U         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Trichloroethene        | 5         | NA        | NA         | NA          | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Trichlorofluoromethane | 5*        | NA        | NA         | NA          | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Chromium               | 50*       | 44.8      | 46.4       | 90.7/90.9** | 71.4       | 71.2      | 98.6 J     | 72.4      | 169        | 249       | 29.9       | 136       |
| Hexavalent Chromium    | 50*       | 47        | 47         | 97          | 67         | 51        | 54.0 J     | 71.0      | 178        | 262       | 41         | 12.3      |

#### Notes:

Remedial

Units are  $\mu g/l$  (ppb) unless otherwise stated. Only detected compounds are listed. NA = Not analyzed. ND = Not detected. NS = Not sampled. B = The reported value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

E = Estimated concentration: due to interference. D = Concentration determined from a sample dilution. J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

- - = Not sampled: well installed in December, 1990.

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

\*\* = Filtered Sample.

See RI report for additional data.

X:\MG\MRFA\Jan Thru June 2010\Tables 4-7.xlsx

|                        | Kemediai  |            |           |            |          |           |           |         |           |         |           |            |
|------------------------|-----------|------------|-----------|------------|----------|-----------|-----------|---------|-----------|---------|-----------|------------|
| Wells / Compounds      | Action    |            |           |            |          |           |           |         |           |         |           |            |
| DGC-3S                 | Objective | 10/23/2001 | 5/29/2002 | 10/29/2002 | 4/9/2003 | 10/9/2003 | 5/25/2004 | 11/2004 | 5/24/2005 | 10/2005 | 5/23/2006 | 10/16/2006 |
| Benzene                | 0.7*      | ND         | ND        | ND         | ND       | ND        | ND        | ND      | ND        | ND      | ND        | ND         |
| Carbon Disulfide       | None*     | ND         | ND        | ND         | ND       | ND        | ND        | ND      | ND        | ND      | ND        | ND         |
| Aluminum               | 100*      | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NA        | NA      | NA        | NA         |
| Lead                   | 25*       | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NA        | NA      | NA        | NA         |
| Chromium               | 50*       | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NA        | NA      | NA        | NA         |
| Hexavalent Chromium    | 50*       | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NA        | NA      | NA        | NA         |
| DGC-4S                 | Nona*     | ND         | ND        | ND         | ND       | ND        | ND        | ND      | ND        | ND      | ND        | ND         |
| Carbon Disulfide       | None*     | ND         | ND        | ND         | ND       | ND        | ND        | ND      | ND        | ND      | ND        | ND         |
| Chromium               | 50*       | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NA        | NA      | NA        | NA         |
| 138                    |           |            |           |            |          |           |           |         |           |         |           |            |
| Benzene                | 0.7*      | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NS        | NS      | NS        | NS         |
| Carbon Disulfide       | None*     | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NS        | NS      | NS        | NS         |
| Carbon Tetrachloride   | 5         | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NS        | NS      | NS        | NS         |
| Chloroform             | 7         | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NS        | NS      | NS        | NS         |
| Trichloroethene        | 5         | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NS        | NS      | NS        | NS         |
| Trichlorofluoromethane | 5*        | NA         | NA        | NA         | NA       | NA        | NA        | NA      | NS        | NS      | NS        | NS         |
| Chromium               | 50*       | 43.3       | 13.4      | 34.8       | 52.2     | 49.4      | 20.1      | NA      | NS        | NS      | NS        | NS         |
| Hexavalent Chromium    | 50*       | 43.6 J     | 18        | 3.59       | 45       | 51.5      | 11        | 11.2    | NS        | NS      | NS        | NS         |

#### Notes:

Remedial

Units are  $\mu g/l$  (ppb) unless otherwise stated. Only detected compounds are listed. NA = Not analyzed. ND = Not detected. NS = Not sampled. B = The reported value is less than the CRQL/CRDL but greater than the IDL. dp = Duplicate sample.

dp = Duplicate sample.E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

- - = Not sampled: well installed in December, 1990.

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

\*\* = Filtered Sample.

See RI report for additional data.

|                     | Kemeulai  |           |            |           |            |           |            |           |
|---------------------|-----------|-----------|------------|-----------|------------|-----------|------------|-----------|
| Wells / Compounds   | Action    |           |            |           |            |           |            |           |
| DGC-3S              | Objective | 5/14/2007 | 10/16/2007 | 5/15/2008 | 10/13/2008 | 5/13/2009 | 11/11/2009 | 5/19/2010 |
| Benzene             | 0.7*      | ND        | ND         | ND        | ND         | ND        | ND         | ND        |
| Carbon Disulfide    | None*     | ND        | ND         | ND        | ND         | ND        | ND         | ND        |
| Aluminum            | 100*      | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Lead                | 25*       | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Chromium            | 50*       | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Hexavalent Chromium | 50*       | NA        | NA         | NA        | NA         | NA        | NA         | NA        |

#### DGC-4S

| D0C-45           |       |    |    |    |    |    |    |    |
|------------------|-------|----|----|----|----|----|----|----|
| Carbon Disulfide | None* | ND |
| Chromium         | 50*   | NA |

#### 138

| 100                    |       |    |    |    |    |    |    |    |
|------------------------|-------|----|----|----|----|----|----|----|
| Benzene                | 0.7*  | NS |
| Carbon Disulfide       | None* | NS |
| Carbon Tetrachloride   | 5     | NS |
| Chloroform             | 7     | NS |
| Trichloroethene        | 5     | NS |
| Trichlorofluoromethane | 5*    | NS |
| Chromium               | 50*   | NS |
| Hexavalent Chromium    | 50*   | NS |

Notes:

Remedial

Units are µg/l (ppb) unless otherwise stated.

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

 $B=\mbox{The reported}$  value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

V = Estimated concentration: due to variance to quality control limits.

- - = Not sampled: well installed in December, 1990.

\* Based on NYSDEC Final Combined Regulatory Impact and Environmental

Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified

for comparison purposes only.

\*\* = Filtered Sample.

See RI report for additional data.

### TABLE 6 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - MAY 2010 SEMI-ANNUAL SAMPLING

|                        | Remedial            |                    |                   |             |           |            |                   |                    |                   |                     |           |                  |                                       |
|------------------------|---------------------|--------------------|-------------------|-------------|-----------|------------|-------------------|--------------------|-------------------|---------------------|-----------|------------------|---------------------------------------|
| M-278                  | Action<br>Objective | 6/5/1992           | 11/11/1992        | 3/14/1994   | 5/23/1995 | 10/17/1995 | 5/14/1996         | 10/23/1996         | 6/2/1997          | 10/14/1997          | 5/28/1998 | 10/29/1998       | 5/11/1999                             |
|                        |                     |                    |                   |             |           |            |                   |                    |                   | y                   |           |                  | · · · · · · · · · · · · · · · · · · · |
| Carbon Disulfide       | None*               | ND                 | ND                | not sampled | ND        | ND         | ND                | ND                 | ND                | ND                  | ND        | ND               | 0.85 J                                |
| Chloromethane          | 5                   | 40                 | ND                | not sampled | ND        | ND         | ND                | ND                 | ND                | ND                  | ND        | ND               | ND                                    |
| Chromium               | 50*                 | 8.4 B/ND**         | 57.4/ND**         | not sampled | ND        | ND         | ND                | ND                 | ND                | ND                  | ND        | 3.2 BJ           | 0.98B                                 |
| Hexavalent Chromium    | 50*                 | NA                 | NA                | not sampled | ND        | ND         | ND                | ND                 | ND                | ND                  | ND        | ND               | ND                                    |
| M-27D                  |                     |                    |                   |             |           |            |                   |                    |                   |                     |           |                  |                                       |
| Carbon Tetrachloride   | 5                   | 75/62 dp           | 23                | not sampled | 33/42 dp  | 56         | 31                | 28                 | 26                | 22                  | 27        | 26 / 27 dp       | 20.3 / 20.1 dp                        |
| Chloroform             | 7                   | ND                 | 3                 | not sampled | 4/4 dp    | 5          | 3                 | 3                  | 3                 | 2                   | 3         | 2 / 2 dp         | 1.8 / 1.8 dp                          |
| Chloromethane          | 5                   | 4 J/28 dp          | ND                | not sampled | ND/ND dp  | ND         | ND                | ND                 | ND                | ND                  | ND        | ND / ND          | ND / ND dp                            |
| Trichloroethene        | 5                   |                    |                   |             |           |            |                   |                    |                   |                     |           | ND/ND dp         | 4.1/4.1 dp                            |
| Trichlorofluoromethane | 5*                  | no data            | no data           | not sampled | no data   | no data    | no data           | no data            | no data           | no data             | no data   | 0.3 J / 0.3 J dp | 0.92J / 0.99J dp                      |
| Chromium               | 50*                 | 2.0 B/ND**         | 19.8/ND**         | not sampled | ND/ND dp  | ND         | ND                | ND                 | ND                | 1.2B                | ND        | 4.6 BJ /         | 1.4 B /                               |
|                        |                     | 2.0 B/ND** dp      |                   |             |           |            |                   |                    |                   |                     |           | 4.8 BJ dp        | 1.3 B dp                              |
| Hexavalent Chromium    | 50*                 | NA                 | NA                | not sampled | ND/ND dp  | ND         | ND                | ND                 | ND                | ND                  | ND        | ND / ND dp       | ND / ND dp                            |
| M-33S                  |                     |                    |                   |             |           |            |                   |                    |                   |                     |           |                  |                                       |
| VOCs                   | -                   | not sampled        | not sampled       | ND          | ND        | ND         | ND                | ND                 | ND                | ND                  | ND        | ND               | ND                                    |
|                        |                     |                    |                   |             |           |            |                   |                    |                   | ·                   |           |                  | ······                                |
| M-33I                  | 1                   |                    |                   |             |           | 1          | 1                 |                    |                   |                     |           |                  |                                       |
| VOCs                   | -                   | not sampled        | not sampled       | ND          | ND        | ND         | ND                | ND                 | ND                | ND                  | ND        | ND               | ND                                    |
|                        |                     | Notes:             |                   |             |           |            |                   |                    |                   |                     |           |                  |                                       |
|                        |                     |                    |                   |             |           |            | * 5 1 107         | DECE 10 1          |                   |                     |           |                  |                                       |
|                        |                     | Units are ug/l (pp |                   |             |           |            |                   |                    |                   | Impact and Enviro   |           |                  |                                       |
|                        |                     | Only detected cor  | npounds are liste | d.          |           |            | Impact Staten     | ent (Title 6, Chap | ter X, Parts 700- | 706, 1998), identif | ied       |                  |                                       |
|                        |                     | NA = Not analyze   | ed.               |             |           |            | for compariso     | n purposes only.   |                   |                     |           |                  |                                       |
|                        |                     | ND = Not detecte   | d.                |             |           |            | ** = Filtered Sar | nple.              |                   |                     |           |                  |                                       |

J = Estimated concentration.

dp = Duplicate sample.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

X:\MG\MRFA\Jan Thru June 2010\Tables 4-7.xlsx

### TABLE 6 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - MAY 2010 SEMI-ANNUAL SAMPLING

|                        | Remedial<br>Action |                 |                     |                |            |            |                |                      |                   |                     |                                       |                  |           |
|------------------------|--------------------|-----------------|---------------------|----------------|------------|------------|----------------|----------------------|-------------------|---------------------|---------------------------------------|------------------|-----------|
| M-27S                  | Objective          | 10/26/1999      | 5/22/2000           | 10/24/2000     | 5/15/2001  | 10/23/2001 | 5/29/2002      | 10/29/2002           | 4/15/2003         | 10/9/2003           | 5/25/2004                             | 11/2004          | 5/24/2005 |
| Carbon Disulfide       | None*              | ND / ND dp      | ND                  | ND             | ND / ND dp | ND / ND dp | ND / ND dp     | ND J / ND J dp       | ND                | ND / 0.11 J dp      | ND                                    | NA               | NA        |
| Chloromethane          | 5                  | ND / ND dp      | ND                  | ND             | ND / ND dp | ND / ND dp | ND / ND dp     | ND J / ND J dp       | ND                | ND / ND dp          | ND                                    | NA               | NA        |
| Chromium               | 50*                | 0.85B/0.90b dp  | 1.1B                | 1.2B           | ND / ND dp | ND / ND dp | ND / ND dp     | 1.2 B                | 8.5 B             | 1.0 B / 1.8 B dp    | 83.1                                  | 2.6 B / 2.2 B dp | NA        |
| Hexavalent Chromium    | 50*                | ND / ND dp      | ND                  | ND             | ND / ND dp | ND / ND dp | ND / ND dp     | ND / ND dp           | ND UJ             | ND U / ND dp        | ND                                    | ND               | NA        |
| M-27D                  |                    |                 |                     |                |            |            |                |                      |                   |                     |                                       |                  |           |
| Carbon Tetrachloride   | 5                  | 22.3            | 26.7D/28.9D dp      | 19.2/19.8 dp   | 13.8       | 16.2       | 14.5           | 24.2 DJ              | 5.1 / 4.5 dp      | 16.6                | 3 / 2.7 dp                            | 22.1             | 21        |
| Chloroform             | 7                  | 1.8             | ND / ND dp          | 1.7J /1.3 dp   | 1.1        | 1.1        | 0.94J          | 2.4                  | ND / ND dp        | 1.0                 | 0.53 JB / 0.55 JB dp                  | ND               | ND        |
| Chloromethane          | 5                  | ND              | ND / ND dp          | ND / ND dp     | ND         | ND         | ND             | ND                   | ND ND dp          | ND                  | ND ND dp                              | ND               | ND        |
| Trichloroethene        | 5                  | 10.7            | 12.8 / 12.1 dp      | 26.4 /26.5D dp | 19.4       | 27 D       | 22.7           | 14                   | 2.4 / 2.2 dp      | 21.8 D              | 3.2 / 2.9 dp                          | 22.7             | 18        |
| Trichlorofluoromethane | 5*                 | 1.4             | 1.9 / 1.8 dp        | 2.9 / 2.9 dp   | 2.0        | 2.2        | 1.5            | 0.96 J               | 0.21J / 0.18J dp  | 2.3                 | 0.27 J / 0.29 J dp                    | 2.3              | 1.3       |
| Chromium               | 50*                | 0.81B           | 2B/1.8B dp          | 1.2B/1.2B dp   | ND         | 1.5 B      | 2 B            | 1.5 B                | 5.9B / 6.1B dp    | 1.2 B               | 22.6 / 21.3 dp                        | 2.6 B            | 1.7 B     |
| Hexavalent Chromium    | 50*                | ND              | ND/ND dp            | ND/ND dp       | ND         | ND         | ND             | ND                   | ND / ND dp        | ND                  | ND / ND dp                            | ND               | ND        |
| M-33S                  |                    |                 |                     |                |            |            |                |                      |                   |                     |                                       |                  |           |
| VOCs                   | -                  | ND              | ND                  | ND             | 8.0 J      | ND         | ND             | ND                   | ND                | ND                  | ND                                    | ND               | ND        |
| M-33I                  |                    |                 |                     |                |            |            |                |                      |                   |                     |                                       |                  |           |
| VOCs                   | -                  | ND              | ND                  | ND             | 4.1 J      | ND         | ND             | ND                   | ND                | ND                  | ND                                    | ND               | ND        |
|                        |                    | Notes:          |                     |                |            |            |                |                      |                   |                     |                                       |                  |           |
|                        |                    |                 | b) unless otherwis  | se stated      |            |            | * Based on NYS | SDEC Final Combin    | ned Regulatory Ir | npact and Environ   | mental                                |                  |           |
|                        |                    | 0 11            | mpounds are listed  |                |            |            |                | ent (Title 6, Chapte | 0 ,               | •                   |                                       |                  |           |
|                        |                    | Omy delected co | inpounds are listed | 1.             |            |            | impact statem  | iem (Thie 0, Chapte  | лл, ганх 700-70   | o, 1990), Ideliulie | a a a a a a a a a a a a a a a a a a a |                  |           |

for comparison purposes only.

\*\* = Filtered Sample.

ND = Not detected. J = Estimated concentration.

dp = Duplicate sample.

NA = Not analyzed.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

D = Indentifies compound analyzed at a secondary dilution factor.

### TABLE 6 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - MAY 2010 SEMI-ANNUAL SAMPLING

|                        | Remedial  |         |           |            |           |            |           |            |           |            |           |
|------------------------|-----------|---------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| M-27S                  | Action    | 10/2005 | 5/23/2006 | 10/16/2006 | 5/14/2007 | 10/16/2007 | 5/14/2008 | 10/13/2008 | 5/13/2009 | 11/11/2009 | 5/19/2010 |
|                        | Objective | ·····   | ····      |            |           |            |           |            |           |            |           |
| Carbon Disulfide       | None*     | NA      | NA        | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Chloromethane          | 5         | NA      | NA        | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Chromium               | 50*       | NA      | NA        | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| Hexavalent Chromium    | 50*       | NA      | NA        | NA         | NA        | NA         | NA        | NA         | NA        | NA         | NA        |
| M-27D                  |           |         |           |            |           |            |           |            |           |            |           |
| Carbon Tetrachloride   | 5         | 13      | 22        | 12         | 15        | 10         | 11        | 9          | 7.6       | 5.8        | 4.2       |
| Chloroform             | 7         | ND      | 2         | 0.76J      | 2         | 0.7J       | ND        | 0.6 J      | 0.30 J    | 0.31 J     | ND        |
| Chloromethane          | 5         | ND      | ND        | ND         | ND        | ND         | ND        | ND         | ND        | 0.13 J     | ND        |
| Trichloroethene        | 5         | 24      | 16        | 21         | 15        | 14         | 13        | 11         | 11        | 10         | 9.3       |
| Trichlorofluoromethane | 5*        | 1.0     | 1 J       | 1.0        | 0.9J      | 0.8J       | 0.6J      | 0.3 J      | 0.15 J    | ND         | ND        |
| Chromium               | 50*       | 1.6 B   | 2.7       | 1.7 BJ     | ND        | ND         | ND        | 0.810      | 0.88      | ND         | 1.1 J     |
| Hexavalent Chromium    | 50*       | ND      | ND        | ND         | ND        | ND         | ND        | ND         | ND        | ND         | ND        |
| M-338                  |           |         |           |            |           |            |           |            |           |            |           |
| VOCs                   | -         | ND      | ND        | ND         | ND        | ND         | ND        | ND         |           |            |           |
|                        | • • • •   |         | 1 112     |            |           | 1.12       |           |            |           | · · · · ·  |           |
|                        |           |         |           |            |           |            |           |            |           |            |           |
| M-33I                  |           |         |           |            |           |            |           |            |           |            |           |

\*\* = Filtered Sample.

-- = Well Removed according to instruction by Environmental Protection Agency

J = Estimated concentration. dp = Duplicate sample.

ND = Not detected.

B = The reported value is less than the CRQL/CRDL but greater than the IDL.

D = Indentifies compound analyzed at a secondary dilution factor.

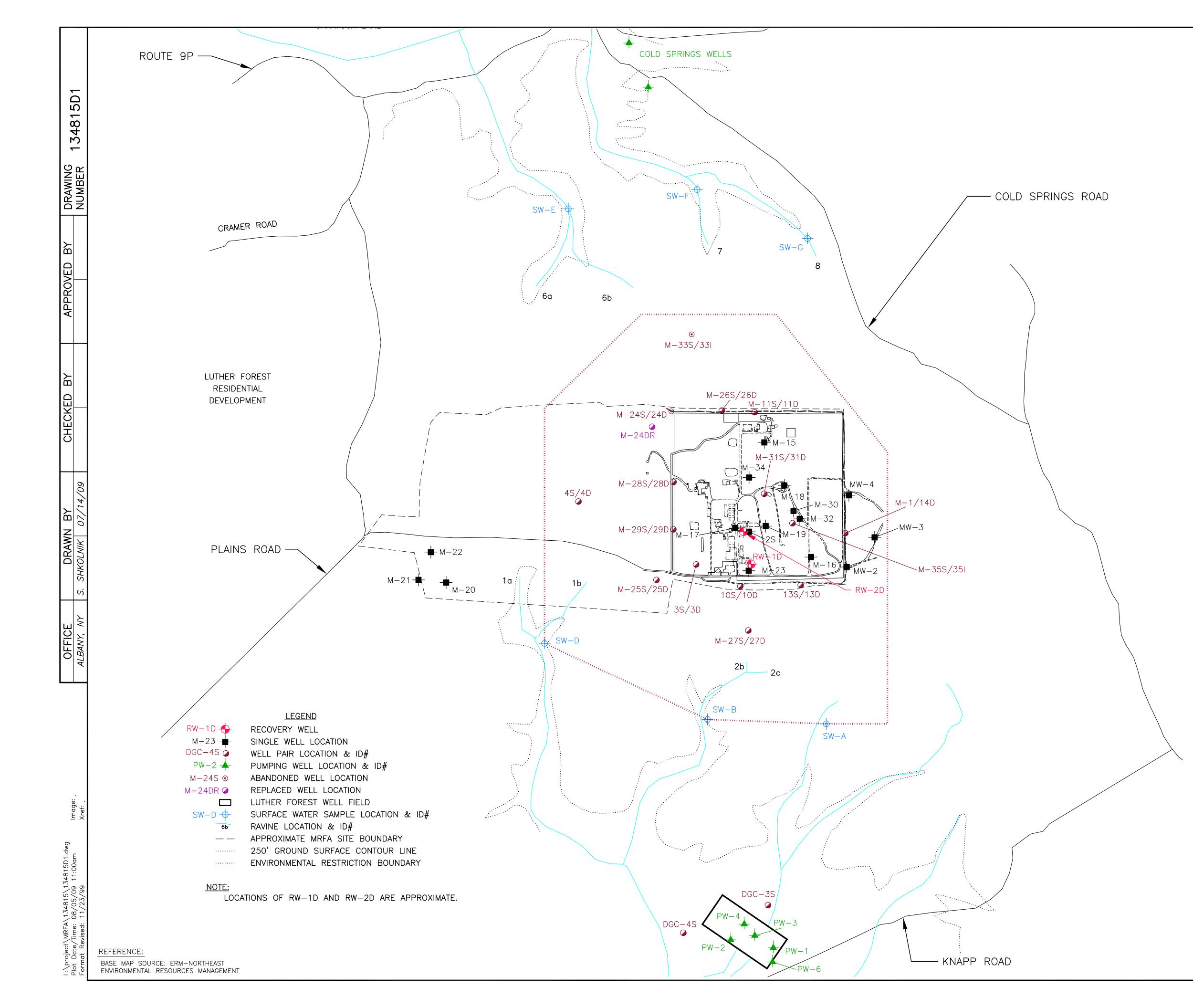
### TABLE 7

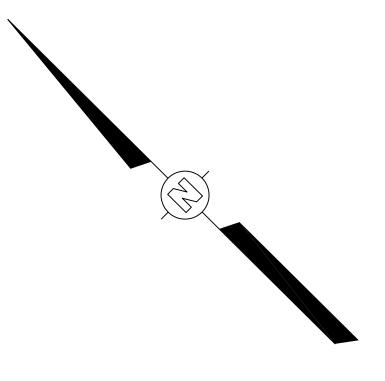
### SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D JUNE 1992 - MAY 2010 SEMI-ANNUAL SAMPLING

|                                 | Remedial<br>Action |              |                  |              |             |            |             |              |             |             |           |             |              |            |          |
|---------------------------------|--------------------|--------------|------------------|--------------|-------------|------------|-------------|--------------|-------------|-------------|-----------|-------------|--------------|------------|----------|
| 4D                              | Objective          | 6/1-6/2/1992 | 11/18-11/19/1992 | 11/2004      | 5/24/2005   | 10/24/2005 | 5/23/2006   | 10/16/2006   | 5/14/2007   | 10/16/2007  | 5/14/2008 | 10/13/2008  | 5/13/2009    | 11/11/2009 | 5/19/201 |
| Acetone                         | 50                 | ND           | ND R             | ND           | ND          | ND         | ND          | ND           | ND          | ND          | ND        | ND          | ND           | NS         | ND       |
| Carbon Tetrachloride            | 5                  | ND           | ND               | ND           | ND          | ND         | ND          | ND           | ND          | ND          | ND        | ND          | ND           | NS         | ND       |
| Chloroform                      | 7                  | ND           | ND               | ND           | ND          | ND         | ND          | ND           | ND          | ND          | ND        | ND          | ND           | NS         | ND       |
| Trichloroethene                 | 5                  | ND           | ND               | ND           | ND          | ND         | ND          | ND           | ND          | ND          | ND        | ND          | ND           | NS         | ND       |
| 11D                             |                    |              |                  |              |             |            |             |              |             |             |           |             |              |            |          |
| Acetone                         | 50                 | ND           | ND R             | ND           | ND          | ND         | ND          | ND           | ND          | ND          | ND        | ND          | 2.8 J        | NS         | ND       |
| Carbon Tetrachloride            | 5                  | ND           | 6                | 4.6          | 13          | 14         | 15          | 12           | 12          | 13          | 11        | 10          | 11           | NS         | 11       |
| Chloroform                      | 7                  | ND           | 3                | ND           | 4.0         | 3.0        | 4.0         | 3.0          | 3           | 2           | ND        | 2           | 1.4          | NS         | 1.3      |
| Trichloroethene                 | 5                  | 9J           | 7                | ND           | 0.8 J       | 0.9J       | 1 J         | 2.0          | 1           | 1           | 1         | 2           | 1.6          | NS         | 1.5      |
| M-24D                           |                    |              |                  |              |             |            |             |              |             |             |           |             |              |            |          |
| Acetone                         | 50                 | ND           | ND R             | ND           | ND          | ND         | ND          | ND           | ND          | ND          | ND        | ND          |              | T          |          |
| Acetone<br>Carbon Tetrachloride | 50                 | 10           | 0.7              | 0.59 J       | 10          | 10         | ND<br>11    | ND<br>11     | 10          | ND<br>9     | ND<br>9   | 10          |              |            |          |
| Carbon Tetrachionde             | 7                  | ND           | 0.7<br>ND        | 0.39 J<br>ND | 0.6 J       | 0.5J       | 0.5 J       | 0.44 J       | 0.4 J       | 9<br>0.4 J  | 9<br>ND   | 0.3 J       |              |            |          |
| L'hiorororm<br>Frichloroethene  | 5                  | ND           | ND               | ND           | 0.6 J<br>ND | 0.5J<br>ND | 0.5 J<br>ND | 0.44 J<br>ND | 0.4 J<br>ND | 0.4 J<br>ND | ND        | 0.3 J<br>ND |              |            |          |
|                                 | 5                  | ND           | нb               | ND           | 14D         | ND         | Цр          | ND           | 14D         | нь          | нь        | ND          |              |            |          |
| M-24DR<br>Acetone               | 50                 |              |                  | 1            | 1           | 1          | 1           |              | 1           | 1           | 1         |             | ND           | ND         | ND       |
| Carbon Tetrachloride            | 50<br>5            |              |                  |              |             |            |             |              |             |             |           |             | ND<br>16     | 13         | 5.5      |
|                                 | 7                  |              |                  |              |             |            |             |              |             |             |           |             | 0.68 J       | 0.43 J     | 0.25 J   |
| Chloroform                      | 5                  |              |                  |              |             |            |             |              |             |             |           |             | 0.68 J<br>49 |            |          |
| Trichloroethene                 | 5                  |              |                  |              |             |            |             |              |             |             |           |             | 49           | 39         | 18       |
| M-25D                           | TT                 |              |                  | 1            | 1           | 1          | 1           |              | 1           | 1           | 1         |             | 1            | 1          |          |
| Acetone                         | 50                 | ND           | ND R             | ND           | ND          | ND         | 49 D*       | 25 JD        | ND          | ND          | ND        | ND          | 7.3 J        | ND         | ND       |
| Carbon Tetrachloride            | 5                  | 48           | 27R              | 86.8 D       | 81 D        | 91         | 76 D*       | 71 D         | 60          | 65          | 56        | 52          | 52           | 40         | 35       |
| Chloroform                      | 7                  | ND           | 3R               | 8.7          | 8.0         | 9.0        | 8 D*        | 7 D          | 7           | 6           | ND        | 4           | 3.8 J        | 3.0 J      | 3.0 J    |
| Trichloroethene                 | 5                  | 3J           | 8R               | 16.1         | 35 D        | 37         | 28 D*       | 22 D         | 31          | 34          | 52        | 79 D        | 93           | 79         | 76       |
| M-29D                           |                    |              |                  |              |             | i          |             |              |             |             |           |             |              |            |          |
| Acetone                         | 50                 | ND           | ND R             | ND           | ND          | ND         | 16 D*       | ND           | ND          | ND          | ND        | ND          | 4.4 J        | ND         | ND       |
| Carbon Tetrachloride            | 5                  | 79           | 84               | 10.8         | 38 D        | 37         | 39 D*       | 33 D         | 32          | 34          | 33        | 32          | 30           | 27         | 28       |
| Chloroform                      | 7                  | ND           | 14               | ND           | 4.0         | 5.0        | 5 D*        | 4 D          | 3           | 3           | ND        | 2           | 2.5          | 2.7        | 2.8      |
| Trichloroethene                 | 5                  | 19           | 24               | 6.0          | 14          | 13         | 14 D*       | 12 D         | 11          | 11          | 11        | 10          | 11           | 16         | 21       |
| 13D                             |                    |              |                  |              |             |            |             |              |             |             |           |             |              |            |          |
| Chromium                        | 50*                | 98.4         | 38.9 J           | 4.5 B        | 78.3        | 60.8 J     | 11          | 17.1         | 25.3        | 5.2B        | 13.2      | 7.3         | 7.1          | 4.0 J      | 3.4 J    |
| Hexavalent Chromium             | 50*                | NA           | NA               | 10 U         | 10 U        | 10 U       | 10 U        | 14.2         | 10 U        | 10 U        | 10 U      | 10 U        | 10 U         | 10 U       | 10 U     |

R = Analysis rejected \*\* = Filtered Sample.

# **FIGURES**





DRAWING NOT TO SCALE



MALTA ROCKET FUEL AREA SITE MALTA, NEW YORK

FIGURE 1 SITE LOCATION MAP

FIGURE 2 WELL M-27D CARBON TETRACHLORIDE CONCENTRATIONS

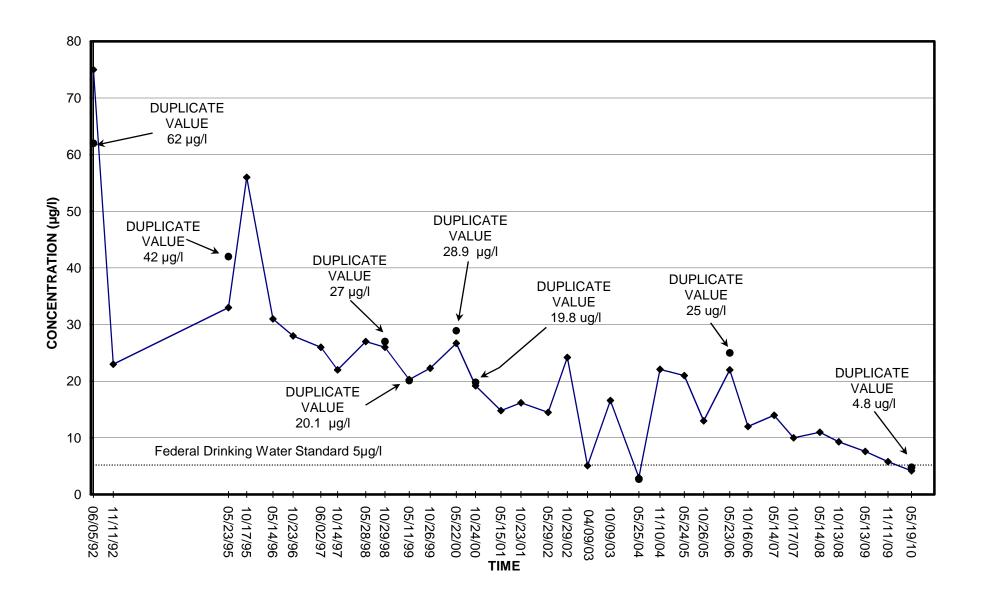
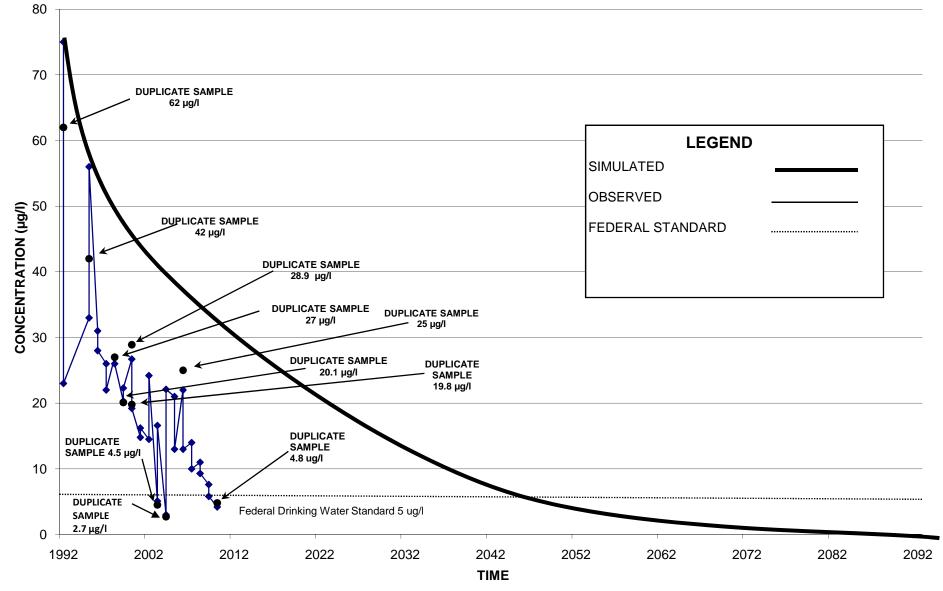


FIGURE 3 SIMULATED VERSUS OBSERVED CARBON TETRACHLORIDE CONCENTRATIONS AT WELL M-27D



# APPENDIX A

# AIR STRIPPER FLOW DATA

|                        |                | Well #2 | Well #1 | Well #2 | Well #1 | Total Daily  |
|------------------------|----------------|---------|---------|---------|---------|--------------|
| Date                   |                | Flow    | Flow    | Average | Average | Average Flow |
|                        |                | (gal)   | (gal)   | (gpm)   | (gpm)   | (gpm)        |
| 1/1/2010               | Total          | 1,270   | 0       | 0.88    | 0.00    | 0.88         |
| 1/2/2010               | Total          | 1,200   | 0       | 0.83    | 0.00    | 0.83         |
| 1/3/2010               | Total          | 950     | 0       | 0.66    | 0.00    | 0.66         |
| 1/4/2010               | Total          | 1,210   | 0       | 0.84    | 0.00    | 0.84         |
| 1/5/2010               | Total          | 1,300   | 0       | 0.90    | 0.00    | 0.90         |
| 1/6/2010               | Total          | 1,190   | 0       | 0.83    | 0.00    | 0.83         |
| 1/7/2010               | Total          | 1,150   | 0       | 0.80    | 0.00    | 0.80         |
| 1/8/2010               | Total          | 1,030   | 0       | 0.72    | 0.00    | 0.72         |
| 1/9/2010               | Total          | 1,240   | 0       | 0.86    | 0.00    | 0.86         |
| 1/10/2010              | Total          | 1,190   | 0       | 0.83    | 0.00    | 0.83         |
| 1/11/2010              | Total          | 1,270   | 0       | 0.88    | 0.00    | 0.88         |
| 1/12/2010              | Total          | 1,030   | 0       | 0.72    | 0.00    | 0.72         |
| 1/13/2010              | Total          | 1,220   | 0       | 0.85    | 0.00    | 0.85         |
| 1/14/2010              | Total          | 1,230   | 0       | 0.85    | 0.00    | 0.85         |
| 1/15/2010              | Total          | 1,280   | 0       | 0.89    | 0.00    | 0.89         |
| 1/16/2010              | Total          | 1,170   | 0       | 0.81    | 0.00    | 0.81         |
| 1/17/2010              | Total          | 970     | 0       | 0.67    | 0.00    | 0.67         |
| 1/18/2010              | Total          | 1,620   | 0       | 1.13    | 0.00    | 1.13         |
| 1/19/2010              | Total          | 9,940   | 0       | 6.90    | 0.00    | 6.90         |
| 1/20/2010              | Total          | 10,010  | 0       | 6.95    | 0.00    | 6.95         |
| 1/20/2010              | Total          | 3.040   | 0       | 2.11    | 0.00    | 2.11         |
| 1/22/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
|                        | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 1/23/2010              | Total          |         | 0       | -       |         |              |
| 1/24/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 1/25/2010<br>1/26/2010 | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 1/27/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
|                        | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 1/28/2010              | Total          | 0       | 0       | 0.00    | 0.00    |              |
| 1/29/2010              |                | 0       | 0       |         |         | 0.00         |
| 1/30/2010              | Total<br>Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 1/31/2010              |                | -       | -       |         |         |              |
| 2/1/2010<br>2/2/2010   | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
|                        | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/3/2010               | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/4/2010               | Total<br>Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/5/2010               | Total          | 0       | -       | 0.00    | 0.00    | 0.00         |
| 2/6/2010<br>2/7/2010   | Total          | 0       | 0       |         | 0.00    | 0.00         |
|                        | Total          | 0       | 0       | 0.00    |         | 0.00         |
| 2/8/2010               | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/9/2010               | Total<br>Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/10/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/11/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/12/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/13/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/14/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/15/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/16/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/17/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/18/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/19/2010              | Total          | 0       | 0       | 0.00    | 0.00    | 0.00         |

|           |       | Well #2 | Well #1 | Well #2 | Well #1 | Total Daily  |
|-----------|-------|---------|---------|---------|---------|--------------|
| Date      |       | Flow    | Flow    | Average | Average | Average Flow |
|           |       | (gal)   | (gal)   | (gpm)   | (gpm)   | (gpm)        |
| 2/20/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/21/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/22/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/23/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/24/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/25/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/26/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/27/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 2/28/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/1/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/2/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/3/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/4/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/5/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/6/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/7/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/8/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/9/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/10/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/11/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/12/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/13/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/14/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/15/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/16/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/17/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/18/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/19/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/20/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/21/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/22/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/23/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/24/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/25/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/26/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/27/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/28/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/29/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/30/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 3/31/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/1/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/2/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/3/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/4/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/5/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/6/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/7/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/8/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/9/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/10/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/11/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |

|           |       | Well #2 | Well #1 | Well #2 | Well #1 | Total Daily  |
|-----------|-------|---------|---------|---------|---------|--------------|
| Date      |       | Flow    | Flow    | Average | Average | Average Flow |
|           |       | (gal)   | (gal)   | (gpm)   | (gpm)   | (gpm)        |
| 4/12/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/13/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/14/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/15/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/16/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/17/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/18/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/19/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/20/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/21/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/22/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/23/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/24/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/25/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/26/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/27/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/28/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/29/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 4/30/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/1/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/2/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/3/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/4/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/5/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/6/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/7/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/8/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/9/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/10/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/11/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/12/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/13/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/14/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/15/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/16/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/17/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/18/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/19/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/20/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/21/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/22/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/23/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/24/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/25/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/26/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/27/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/28/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/29/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/30/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 5/31/2010 | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |
| 6/1/2010  | Total | 0       | 0       | 0.00    | 0.00    | 0.00         |

| Date      |       | Well #2<br>Flow | Well #1<br>Flow | Well #2<br>Average | Well #1<br>Average | Total Daily<br>Average Flow |
|-----------|-------|-----------------|-----------------|--------------------|--------------------|-----------------------------|
|           |       | (gal)           | (gal)           | (gpm)              | (gpm)              | (gpm)                       |
| 6/2/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/3/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/4/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/5/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/6/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/7/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/8/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/9/2010  | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/10/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/11/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/12/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/13/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/14/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/15/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/16/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/17/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/18/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/19/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/20/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/21/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/22/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/23/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/24/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/25/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/26/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/27/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/28/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/29/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| 6/30/2010 | Total | 0               | 0               | 0.00               | 0.00               | 0.00                        |
| Grand To  |       | 44,510          | 0               | 1.55               | 0.000              | 1.55                        |

1.55 during the 1/1/10 through 1/21/10 period of operatior

# **APPENDIX B**

# LABORATORY DATA, GROUNDWATER SAMPLES (MAY 19 AND 20, 2010)

Columbia Analytical Services\*

1 Mustard Street, Ste. 250, Rochester, NY 14609 585.288.5380 585.288.8475 (fax) www.caslab.com

June 15, 2010

Mr. Brian Neumann Shaw Environmental 13 British American Blvd. Latham, NY 12110

Re: GE MRFA Project #138165 Service Request # R1002703

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of thirteen samples were received by our laboratory on May 20-21, 2010.

Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

This report consists of two (2) packages: the sample data package and the sample data summary package. The data package and summary package have been mailed to Judy Harry and the summary package only has been mailed to your attention. All data presented in this package has been reviewed prior to report submission. If you should have any questions or concerns, please contact me at (585) 288-5380.

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Janice M. Jaeger Project Chemist

enc.

cc: Ms. Judy Harry Data Validation Services Cobble Creek Road North Creek, NY 12853

Page 1 of 73

#### CASE NARRATIVE

#### COMPANY: Shaw Environmental GE MRFA Project #138165 SERVICE REQUEST #: R1002703

Shaw samples were collected on 05/19-20/10 and received at CAS on 05/20-21/10 in good condition.

#### **INORGANICS**

Three water samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was performed on 13D. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

All samples were analyzed within required holding times except as mentioned above.

No other analytical or QC problems were encountered.

#### VOLATILE ORGANICS

Thirteen water samples and one cooler blank were analyzed for OLC 2.1 Volatiles by CLP methodology.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

Site specific QC was performed on DUPE A and 14D. All MSD recoveries were within limits except Trichloroethene for DUPE A and has been flagged with an "\*". All MS and Reference spike recoveries were within limits. All RPD's were within limits.

The Laboratory blanks associated with these samples were free of contamination except the 05/26/10 and 05/27/10 had a low level hit for Acetone. All affected data has been flagged with a "B".

All samples were analyzed within required holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the taboratory Manager or his designee, as verified by the following signature.

00002

CAS ASP/CLP Batching Form/Login Sheet

Printed 6/15/10 9:54

00003

Folder Comments: need extra 3 compounds, e-mail invoices to Karen and Steve

CLP Batching Form



# **REPORT QUALIFIERS**

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Pesticide/Aroclors: Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.



#### CAS/Rochester Lab ID # for State Certifications<sup>1</sup>

NELAP Accredited Delaware Accredited Connecticut ID # PH0556 Florida ID # E87674 Illinois ID #200047 Maine ID #NY0032 Nebraska Accredited Navy Facilities Engineering Service Center Approved Nevada ID # NY-00032 New Jersey ID # NY004 New York ID # 10145 New Hampshire ID # 294100 A/B Pennsylvania ID# 68-786 Rhode Island ID # 158 West Virginia ID # 292

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at <u>www.caslab.com</u>.

| Columbia<br>Analytical Services                               |  | JF CU         | STOD         | Y/LAB           | ORAT         | CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM  | <b>YSIS RE</b> | QUEST I  | _  | SR#   |  |
|---|--|---------------|--------------|-----------------|--------------|--|----------------|--|--|---|--|
|   | 1 Mustard Street, Suite 250, Rochester, NY 14609 |               | 585.288.5380 | _               | 800.695.7222 | 585.288.8475 (fax)   | DAGE           | I OF   | ן<br>ו   | CAS Contact   |  |
| Project Name<br>GE MRFA                                       | per  | 138165        |              |                 |              | ANALYSIS I   | REQUESTED (II  | nclude Method N  | umber and Cont   | ANALYSIS REQUESTED (include Method Number and Container Preservative) |  |
| Project Manager<br>Octor Neumann                              | Report CC  | _             | Steve M      | Meren           | PRESERVATIVE | TIVE   |                |  |  | <br>  |  |
|   | nental, Inc.                                     | -             |              |                 |              |  |                |  |  |   | Preservative Key<br>0. NONE                      |
| 13 British Ame  | American Blych                                   |               |              |                 |              | ~  |                |  |  |   | 1. HCL<br>3. HNO3<br>3. H2SO3                    |
| Phone # Latham, NY  | 12/10<br>Fax#                                    |               |              | -               |              | 205<br>205<br>200<br>200<br>200  |                | DCX<br>10/29 ST<br>03/70                                   |  |   | 4. NaUH<br>5. Zn. Acetate<br>6. MeOH<br>7. NaHSO |
| Samoler's Signature   | Samular's Drintod Mon                            | Į             |              |                 |              | Car  | 800            |  | /  | /   | 8. Other   |
| 11/1/   | Mar, Fla   | langan        | c            |                 | SW           | L'YON  | S              |  |  |   |  |
| CLIENT SAMPLE ID  | FOR OFFICE USE ONLY<br>LAB ID                    | -SAMP<br>DATE | ш            | MATRIX          | 105          | 1.50   | 8.1            | 0%   | /  |   | AI TEDMATE DESCRIPTION                           |
| 14D   |  | 5/20/10       | 850          | 3               | 5            | 1  | 1              |  |  |   |  |
| 140(MS)   |  | )             | 850          |                 |              |  |                |  |  |   | -  |
| HD (MSD)  |  | _             | 850          |                 |              |  |                |  |  |   |  |
| 011   | 1<br>1<br>1<br>1                                 |               | 920          |                 |              |  |                |  |  |   |  |
| DGC - 45  |  |               | 1010         | -               |              |  |                |  |  | <br> <br> <br>  |  |
| Drc - 25  |  | >             | 1045         | 1               | ->           |  |                |  |  |   |  |
| Trip Blunk  |  | 1             | 1            |                 |              |  |                |  |  | -   |  |
|   |  |               |              |                 |              |  |                |  |  |   |  |
|   |  |               |              |                 |              |  |                |  |  |   |  |
|   |  |               |              |                 |              |  |                |  |  |   |  |
| SPECIAL INSTRUCTIONS/COMMENTS<br>Metals                       |  |               |              |                 |              | TURNAROUND REQUIREMENTS  | QUIREMENTS     | REPORT R   | REPORT REQUIREMENTS  | INVOICE   | INVOICE INFORMATION                              |
|   |  |               |              |                 |              | H (SURC  | GES APPLY)     | I. Results Only  |  |   |  |
|   |  |               |              |                 |              | Verticial Albert |                | II. Results + O<br>(LCS, DUP, M                            | II. Results + QC Summaries<br>(LCS, DUP, MS/MSD as required)   | #Od   |  |
|   |  |               |              |                 |              | REQUESTED FAX DATE   |                | III. Results + C<br>Summaries                              | <ol> <li>Results + QC and Calibration<br/>Summaries</li> </ol> | BILL TO:  |  |
|   |  |               |              |                 |              | REQUESTED REPORT DATE  | ų              | IV. Data Validation Report V<br>V. Specialized Forms / Cur |  | R1002703  | arcture.inc.                                     |
|   |  |               |              |                 |              |  |                | . to   | ō0.  |   | a tehi mist III 1561                             |
| SAMPLE  | JLER TEMP:                                       | F             | CUST         | CUSTODY SEALS:  | z<br>≻       |  |                | COALA  | _  |   |  |
|   |  |               |              | HELINQUISHED BY |              | RECEIVED BY  | BY             | HETINC   | RELINQUISHED E   |   |  |
|   | Signament Con                                    | Sigr          | Signature    |                 |              | Signature  |                | Signature  |  | Signature   |  |
| Mame / anagan   | Printeger of Carter Ca                           | hread Print   | Printed Name |                 |              | Printed Name   |                | Printed Name   |  | Printed Name  |  |
|   | TAC T  | Eit           | _            |                 |              | Firm   |                | Firm   | *  | Firm  |  |
| 1000 100000000000000000000000000000000                        | 17/10  | じてて Date      | Date/Time    |                 |              | Date/Time  |                | Date/Time  |  | Date/Time   |  |
| Distribution: White - Return to Originator: Yellow - Lah Conv | / - Lah Conv                                     |               |              |                 |              |  |                |  |  |   |  |

.

SCOC Rev. 3/10

| Cooler Receipt And Preservation Check Form         Project/Client         Submission Number       K10 - ES 2703         Cooler received on       Submission Number       K10 - ES 2703         Cooler received on       Submission Number       K10 - ES 2703         Cooler received on       Submission Number       K10 - ES 2703         Cooler received on       Submission Number       K10 - ES 2703         Cooler received on       Submission Number       No         Were custody seals on outside of cooler?       VES NO         Were custody papers properly filled out (ink, signed, etc.)?       VES NO         Joid all bottles arrive in good condition (ubroken)?       VES NO         Mere Tice       Ice packs present?       VES NO         Were Tice       Ice packs present?       VES NO         Were Tice       Ice packs present?       VES NO         Where did the bottles originate?       VES NO       VES NO         Is the temperature within 0° - 6° C?       Ves Yes Yes Yes Yes Yes Yes Yes If No, Explain Below       No       No         Date/Time Temperatures Taken:       Submission No       No       No       No         If out of Temperature, note packing/ice condition, Client Approval to Run Samples:       Yes Scondary Review:       Yes Yes Yes Yes Yes Yes Yes Ye  |
|---|
| Cooler received on <u>Skillio</u> by: <u>Mu-C</u> COURIER: CAS UPS FEDEX VELOCITY CLIENT<br>1. Were custody seals on outside of cooler?<br>2. Were custody papers properly filled out (ink, signed, etc.)?<br>3. Did all bottles arrive in good condition (unbroken)?<br>4. Did any VOA vials have significant* air bubbles?<br>5. Were fice is free packs present?<br>6. Where did the bottles originate?<br>7. Temperature of cooler(s) upon receipt:<br>Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes Yes<br>If No, Explain Below No No No No No No No No No So No<br>Date/Time Temperatures Taken: <u>J21110</u> 1035<br>Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle<br>If out of Temperature, note packing/ice condition, Client Approval to Run Samples:<br>PC Secondary Review:   |
| <ol> <li>Were custody seals on outside of cooler?</li> <li>Were custody papers properly filled out (ink, signed, etc.)?</li> <li>Did all bottles arrive in good condition (unbroken)?</li> <li>Did any VOA vials have significant* air bubbles?</li> <li>Were Tee D Ice packs present?</li> <li>Where did the bottles originate?</li> <li>Temperature of cooler(s) upon receipt:</li> <li>Is the temperature within 0° - 6° C?:</li> <li>Yes</li> <li>Yes&lt;</li></ol> |
| If No, Explain Below       No       No <th< td=""></th<>  |
| If No, Explain Below       No       No <th< td=""></th<>  |
| Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle<br>If out of Temperature, note packing/ice condition, Client Approval to Run Samples:<br>PC Secondary Review:  |
| Cooler Breakdown: Date :       5/21/10       by:       Were         1.       Were all bottle labels complete (i.e. analysis, preservation, etc.)?       TES' NO         2.       Did all bottle labels and tags agree with custody papers?       TES' NO         3.       Were correct containers used for the tests indicated?       NO         4.       Air Samples: Cassettes / Tubes Intact       Canisters Pressurized       Tedlar® Bags Inflated         Explain any discrepancies:       Output       Did all contents       Did all contents   |
| pH Reagent Lot Received Exp Sample 10 4/4   |
| $\geq 12 \qquad \text{NaOH} \qquad \qquad$   |
|   |
| Residual       For TCN       If present, contact PM to<br>add ascorbic acid       Samples         (-)       Phenol       add ascorbic acid       preserved at<br>lab as listed  |
| Zn Aceta       -       *Not to be tested before analysis - pH       PM OK to         HCI       *       #109100       #/11       on a separate worksheet       PM OK to         Bottle lot numbers:       9-356-001       9-356-001       9       9       9  |
| Other Comments:<br>We received 2 erry sets of HCI pres. VCAS, 2 250 mL pla<br>ung. bettles, and 2 250 HAVEN plastic pottles bettles.<br>Mul stanio  |

C Secondary Review: 5/2910 \*significantiair bubbles are greater than 5-6 mm

# 00006

| Columbia<br>Analytical Services <sup>*</sup>                  |   | DF CUS                                 | STODY        | //LAB            | ORA <sup>-</sup> | CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM | ALYSIS RI   | EQUES.                      | T FORM   | SR #           | •   |
|---|---|--|--------------|------------------|------------------|---|---|-----------------------------|--|----------------|---|
| 1 Mustard Street, Suite                                       | 1 Mustard Street, Suite 250, Rochester, NY 14609   585.288.5380 | 09   585                               | 288.5380     | 800.6            | 800.695.7222     | l 585.288.8475 (fax)                              | (fax) PAGE  | -                           | OF   | CAS Contact    | ot  |
| Project Name GE MRFA  | . 1   | 138165                                 |              |                  |                  | ANALY   | ANALYSIS REQUESTED (include Method Number and Container Preservative) | Include Meth                | od Number and  | Container Pres | ervative)   |
| Project Manager<br>Brign Neuman                               | Report CC<br>Steve Me,  | Meier, Judy Harry                      | lu Hàri      | ~                | PRESERVATIVE     | ATIVE   | <br> <br> <br> <br> <br>  |                             | 1 2 0  |                |   |
| ୫ <del>-</del>  | Inc   |  |              |                  |                  |   |   |                             |  |                | Preservative Key                                      |
| 13 British American   | . <u>c</u>  |  |              |                  | SHENL            | _   | _   |                             |  |                | / 1. HCL<br>2. HNO3<br>3. H2SO4                       |
| atham, N  |   |  |              |                  |                  | 4101  | CTD<br>CTD  | Delon<br>LVED               |  |                | / 4. NãOH<br>5. Zn. Acetate<br>6. MeOH                |
| 85- 2354  | FAX#  | 518-783-8397                           | 397          |                  |                  | O co  | 1810<br>180<br>180<br>180   | 5+7<br>1000<br>1000010      |  |                | 7. NaHSO <sub>4</sub><br>8. Other                     |
| A   | Sampler's Printed Nam   | Flanado                                | 2            |                  |                  | ~*VC  | 100<br>78'57<br>90<br>5<br>00   | ` ``                        | -  |                |   |
| CLIENT SAMPLE ID  | FOR OFFICE USE ONLY<br>LAB ID                                   | SAMPLING<br>DATE TIME                  | ING<br>TIME  | ATRIX            |                  | CON           | VIELV<br>VIELV<br>VIELV<br>VIELV                                      |                             |  |                | ALTERNATE OCCONDUCTOR                                 |
|   |   | 19/10                                  | 1125         | λ                | 6                | 7   |   | ×                           |  |                | ALI ENNAIE DESORIE LION                               |
| Dupe A  |   | J                                      |              |                  | 5                |   |   | ×                           | -<br>-<br>×  |                |   |
| M. 27D  | · · · · ·   |  | 1330         | _                | 5                |   |   |                             | ×  |                |   |
|   |   |  | 1215         | _                | <u>م</u>         |   |   | X                           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                        |                |   |
| (SM) 0 CI   |   |  | 1215         |                  | 8                |   |   | X                           | ×  |                |   |
| (02M) (Cl   |   |  | 1215         | _                | ন্থ              |   |   | X                           | X:   |                |   |
| M- 240R   |   |  | 1045         | _                | 3                |   |   | X                           |  |                |   |
| M- 25D  |   | -                                      | 930          |                  | 3                |   |   | X                           |  |                |   |
| 066 - M   |   |  | 0001         |                  | 3                |   |   | X                           |  |                |   |
| Jrip Blank  |   | >                                      | ŧ            | <b>~</b>         | 3                |   |   | ×                           |  |                |   |
| SPECIAL INSTRUCTIONS/COMMENTS                                 |   |  |              |                  |                  | TURNAROUND<br>BIISH (SUBI                         | TURNAROUND REQUIREMENTS<br>RISH / SUBCHARGES APPLV                    | REPORT R                    | REPORT REQUIREMENTS  | TS             | INVOICE INFORMATION                                   |
|   |   |  |              |                  |                  | 24 hr   | 48 hr 5 day   | II Reciri                   | i. results Only<br>II Results + OC Summariae                   | #C             |   |
|   |   |  |              |                  |                  | NDARD   |   | (LCS, D                     | IL results + 30 Summaries<br>(LCS, DUP, MSMSD as required)     |                |   |
|   |   |  |              |                  |                  | REQUESTED FAX DATE                                | JE  | III. Results -<br>Summaríes | <ol> <li>Results + QC and Calibration<br/>Summaries</li> </ol> | an , Bill TO:  | ö   |
|   |   |  |              |                  |                  | REQUESTED REPORT DATE                             | —<br>T date   | IV. Data                    | IV. Data Validation Report with Raw Data                       | Raw Data       |   |
| see QAPP  |   |  |              |                  |                  |   |   | V. Speci                    | V. Specialized Forms / Custom Ref                              |                | R1002/03<br>Shaw Environmental & Infrastructure, Inc. |
| SAMPLE  | ER TEMP:  |  | CUSTC        | CUSTODY SEALS: Y | N<br>X           |   |   | Edata                       | Yes  | - No GEMRFA    |   |
|   | RECEIVED BY   |  | RELING       | Relinquished by  |                  | RECE  | RECEIVED BY   | æ                           | RELINQUISHED BY  |                |   |
|   | Signature A Car & C   | 2 Signature                            | ature        |                  |                  | Signature   |   | Signature                   |  | Signature      | ure .   |
| t lanagan   | Printee Name<br>DOUN  | Printe                                 | Printed Name |                  |                  | Printed Name                                      |   | Printed Name                |  | Printed Name   | Name  |
| Shaw J  | D S H   | Firm                                   |              |                  |                  | Firm  |   | Fim                         |  | Fira           |   |
| 1 2 2 1/1/10 16 00 Uater                                      | 01/02   | の<br>い<br>い<br>い<br>の<br>の<br>ate/Time | Fime         |                  |                  | Date/Time   |   | Date/Time                   |  | Date/Time      | me  |
| Distribution: White - Return to Originator; Yellow - Lab Copy | Lab Copy  |  |              |                  |                  |   |   |                             |  |                | SCOC Rev. 3/10  |

|                      |   |         |            | Cooler R              | leceipt        | And Presei   | vation C    | heck Form       |          |                 |
|----------------------|---|---------|------------|-----------------------|----------------|--------------|-------------|-----------------|----------|-----------------|
| Proj                 | ect/Client_   | S       | hc         |                       |                | _Submission  |             |                 | 7.52     |                 |
| ~                    |   |         | · · · ·    |                       |                |              |             |                 | 10       | <u>-</u> ·      |
| Coo                  |   |         |            | 20/10 by: 6           |                | URIER: C     | as Op       | S FEDEX         | VELC     | CITY CLIENT     |
| 1.                   | Were cu   | stody   | sea        | ls on outside of co   | oler?          |              |             |                 |          |                 |
| 2.                   | Were cu   | stody   | pap        | ers properly filled   | tout / .       | ik signed a  | ita 19      | (YES)           | NO       |                 |
| 3.                   |   | omes    |            | Ve in good condit     | ion (un        | healten      |             | TES             | NO       |                 |
| 4.                   |   | -XUA    | v1a.       | IS have significant   | t* air bi      | uhhles?      |             | TES             | NO       |                 |
| 5.                   | were we   | 20010   | e pa       | acks present?         |                | 200103:      |             | YES             | NO       | ) N/A           |
| 6.                   | Where di  | id the  | bott       | tles originate?       |                |              |             | YES             | NO       |                 |
| 7.                   | Tempera   | ture o  | fco        | oler(s) upon recei    | pt:            |              |             | CAS/RC          | S CI     | IENT            |
|                      | Is the ten  | iperat  | ure        | within 0° - 6° C?:    | (              | Ver D        | Yes         |                 | ;        |                 |
|                      | If No, Ex   |         |            |                       |                |              |             | Yes             | Yes      | Yes             |
|                      |   |         |            |                       |                | No           | No          | No              | No       | No              |
|                      |   |         |            | atures Taken:         |                | 5            | 206         | 2075            | 50       |                 |
|                      | Thermom   | eter II | DC         | R GUN#3/ IR (         | GUN#4          | Readin       | z From:     | Temp Blank      | / 5      | 1. D            |
| lf out               |   |         |            |                       |                |              | 9.1011. (   |                 | / Sam    | ple Bottle      |
| PC Se                | condary Re  | view:   | 9 IIU      | te packing/ice.co     | かれていていたい。      | n, Client A  | pproval     | to Run Samp     | les:     |                 |
|                      |   |         |            |                       | 410            | f            |             |                 |          |                 |
| 1.                   | Cooler Breakdown: Date :       5       2010 by:       BD         1.       Were all bottle labels complete ( <i>i.e.</i> analysis, preservation, etc.)?       YES       NO         2.       Did all bottle labels and tags agree with custody papers?       YES       NO         3.       Were correct containers used for the tests indicated?       YES       NO         4.       Air Samples; Cassettes / Tubes Integt       Content of the tests indicated?       YES       NO |         |            |                       |                |              |             |                 |          |                 |
|                      | Cooler Breakdown: Date :       5/20/0       by:       BD         1.       Were all bottle labels complete (i.e. analysis, preservation, etc.)?       YES       NO         2.       Did all bottle labels and tags agree with custody papers?       YES       NO         3.       Were correct containers used for the tests indicated?       YES       NO         4.       Air Samples; Cassettes / Tubes Integt       Containers       NO  |         |            |                       |                |              |             |                 |          |                 |
|                      | <ol> <li>Were all bottle labels complete (<i>i.e.</i> analysis, preservation, etc.)?</li> <li>Did all bottle labels and tags agree with custody papers?</li> <li>Were correct containers used for the tests indicated?</li> <li>Air Samples: Cassettes / Tubes Integet</li> </ol>   |         |            |                       |                |              |             |                 |          |                 |
| 4.                   | <ol> <li>Were all bottle labels complete (<i>i.e.</i> analysis, preservation, etc.)?</li> <li>Did all bottle labels and tags agree with custody papers?</li> <li>Were correct containers used for the tests indicated?</li> </ol>   |         |            |                       |                |              |             |                 |          |                 |
| Explain              | any discret   | Dancie  | 253<br>251 | ettes / Tubes Intac   | t C            | anisters Pre | essurized   |                 |          | flated          |
|                      | · · · · · · · · · · · · · · · · · · ·   |         |            |                       |                |              |             |                 |          |                 |
| pH                   | Reagent   | YES     | NO         | Lot Received          | Exp            | Sample ID    |             | Lot Added       | Final    | Yes = A I       |
| ≥12                  | NaOH  |         |            |                       | <u> </u>       | +            | Added       |                 | рН       | samples OK      |
| ≤2                   | HNO3  | V       |            | BDBZ6102D             | 5/11           | +            |             | <u> </u>        |          |                 |
| ≤2                   | H <sub>2</sub> SO <sub>4</sub>  |         |            |                       |                | +            |             |                 | <u> </u> | No =            |
| Residual<br>Chlorine | For TCN<br>and  |         | Π          | If present, contact i | PM to          | <u> </u>     |             |                 |          | Samples<br>were |
| (-)                  | Phenol  |         |            | add ascorbic acid     |                |              |             |                 |          | preserved at    |
|                      | Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>   | -       | - †        |                       |                |              |             |                 |          | lab as listed   |
|                      | Zn Aceta  |         | - †        |                       |                | tested and r | ested befor | e analysis – pH |          | PM OK to        |
| Į                    | HCI   | • -     | •          | 109100                | 411            | on a separat | e workshee  | VOAs or GenC    | hem      | Adjust:         |
| Bottle lot r         | umbers: 9-2   | 27      |            |                       |                |              |             |                 |          |                 |
| Other Com            | ments;  |         | <u> </u>   | 041210                | <u>2 - 2 a</u> | 2            |             | - <b>-</b>      |          |                 |
|                      |   |         |            |                       | ſ <sup>Ÿ</sup> |              |             | ·               |          |                 |
|                      |   |         |            |                       |                |              |             |                 |          |                 |

C Secondary Review: MN 525/10 \*significant air bubbles are greater than 5-6 mm I:\SMODOCS\Cooler Receipt 2.doc

80008

E.

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10 1125 |
| Sample Matrix: | Water                                     | Date Received: 5/20/10       |
| Sample Name:   | 4D  | Units: µg/L                  |
| Lab Code:      | R1002703-001                              | Basis: NA                    |

#### Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|                                       |        |             |        | Dilution | Date      | Date          | <b>Extraction Analys</b> | sis  |
|---------------------------------------|--------|-------------|--------|----------|-----------|---------------|--------------------------|------|
| Analyte Name                          | Result | Q MH        | RL MDL | Factor   | Extracted | Analyzed      | Lot Lot                  | Note |
| 1,1,1-Trichloroethane (TCA)           | 1.0    | U 1.        | 0.14   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U 1.        | 0.12   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,1,2-Trichloroethane                 | 1.0    | U 1.        | 0.11   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0    | U 1.        | 0.11   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0    | U 1.        | 0.17   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,2,3-Trichlorobenzene                | 1.0    | U 1.        | 0.18   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,2,4-Trichlorobenzene                | 1.0    | U 1.        | 0.13   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0    | U 1.        | 0.34   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,2-Dibromoethane                     | 1.0    | U 1.        | 0.14   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,2-Dichloroethane                    | 1.0    | U 1.        | 0.057  | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,2-Dichlorobenzene                   | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          | 3    |
| 1,2-Dichloropropane                   | 1.0    | U 1.        | 0.15   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,3-Dichlorobenzene                   | 1.0    | U 1.        | 0.092  | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 1,4-Dichlorobenzene                   | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| 2-Butanone (MEK)                      | 5.0    | U 5.        | 0.75   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| 2-Hexanone                            | 5.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| 4-Methyl-2-pentanone                  | 5.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| Acetone                               | 1.6    | BJ 5.       | 0.69   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| Benzene                               | 1.0    |             |        |          | NA        | 5/26/10 16:17 |                          |      |
| Bromochloromethane                    | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| Bromodichloromethane                  | 1.0    | <u>U 1.</u> | 0.15   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| Bromoform                             | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| Bromomethane                          | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| Carbon Disulfide                      | 1.0    | U 1.        | 0.16   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| Carbon Tetrachloride                  | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| Chlorobenzene                         | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 |                          |      |
| Chloroethane                          | 1.0    | U 1.        | 0.21   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| Chloroform                            | 1.0    |             |        | I        | NA        | 5/26/10 16:17 |                          |      |
| Chloromethane                         | 1.0    |             |        | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| cis-1,2-Dichloroethene                | 1.0    | U 1.0       | 0.11   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| cis-1,3-Dichloropropene               | 1.0    | U 1.0       | 0.079  | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| Dibromochloromethane                  | 1.0    | U 1.0       | 0.13   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
| Ethylbenzene                          | 1.0    | U 1.0       | 0.13   | 1        | NA        | 5/26/10 16:17 | 7 20227                  | 3    |
|                                       |        |             |        |          |           |               |                          |      |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | <b>Service Request:</b> R1002703    |
|----------------|---|-------------------------------------|
| Project:       | GE MRFA/138165                            | <b>Date Collected:</b> 5/19/10 1125 |
| Sample Matrix: | Water                                     | Date Received: 5/20/10              |
| Sample Name:   | 4D  | Units: µg/L                         |
| Lab Code:      | R1002703-001                              | Basis: NA                           |

#### Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction . | Analysi | S    |
|---|----------|-----|-------|----------|-----------|---------------|--------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot          | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:17 | 1            | 202273  |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 16:17 | 7            | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 90   | 80-120            | 5/26/10 16:17      |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrast<br>GE MRFA/138165<br>Water | ructure, Inc. |          |                                    | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |
|---------------------------------------|---|---------------|----------|------------------------------------|---|--------------------|
|                                       |   | •             |          | pounds (TIC)<br>Compounds by GC/MS |   |                    |
| Sample Name:                          | 4D  |               |          |                                    | Units:  | μg/L               |
| Lab Code:                             | R1002703-001  |               |          |                                    | Basis:  | NA                 |
| Analytical Method:                    | CLP-VOA OLC02.1   |               |          |                                    |   |                    |
| CAS # Anal                            | yte Name  | RT            | Result   | Q                                  |   |                    |
|                                       | No Tentatively Identified (                             | Compounds D   | etected. |                                    |   |                    |

Analytical Report

| Client:                    | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703                         |
|----------------------------|---|---|
| Project:<br>Sample Matrix: | GE MRFA/138165<br>Water                   | Date Collected: 5/19/10<br>Date Received: 5/20/10 |
| -                          |   | ······  |
| Sample Name:               | DUPE A                                    | Units: µg/L                                       |
| Lab Code:                  | R1002703-002                              | Basis: NA   |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|                                       |          |       |       | Dilution | Date      | Date          | Extraction | Analysi | s       |
|---------------------------------------|----------|-------|-------|----------|-----------|---------------|------------|---------|---------|
| Analyte Name                          | Result ( | Q MRI | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note    |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U    | J 1.0 | 0.14  | 1        | NA        | 5/26/10 16:54 | 1          | 202273  |         |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    |       | 0.12  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| 1,1,2-Trichloroethane                 | 1.0 U    | J 1.0 | 0.11  | I        | NA        | 5/26/10 16:54 | ł          | 202273  |         |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | J 1.0 | 0.11  | 1        | NA        | 5/26/10 16:54 | 1          | 202273  |         |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 T    |       | 0.17  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| 1,2,3-Trichlorobenzene                | 1.0 T    | J 1.0 | 0.18  | 1        | NA        | 5/26/10 16:54 | 1          | 202273  |         |
| 1,2,4-Trichlorobenzene                | 1.0 U    | J 1.0 | 0.13  | 1        | NA        | 5/26/10 16:54 | 1          | 202273  |         |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    |       | 0.34  | 1        | NA        | 5/26/10 16:54 | 1          | 202273  |         |
| 1,2-Dibromoethane                     | 1.0 U    | J 1.0 | 0.14  | 1        | NA        | 5/26/10 16:54 | ţ          | 202273  |         |
| 1,2-Dichloroethane                    | 1.0 ľ    |       | 0.057 | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| 1,2-Dichlorobenzene                   | 1.0 U    |       | 0.089 | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| 1,2-Dichloropropane                   | 1.0 U    | J 1.0 | 0.15  | 1        | NA        | 5/26/10 16:54 | ŧ          | 202273  |         |
| 1,3-Dichlorobenzene                   | 1.0 T    |       | 0.092 | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| 1,4-Dichlorobenzene                   | 1.0 U    |       | 0.085 | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| 2-Butanone (MEK)                      | 5.0 T    | J 5.0 | 0.75  | 1        | NA        | 5/26/10 16:54 | 1          | 202273  |         |
| 2-Hexanone                            | 5.0 U    |       | 0.51  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| 4-Methyl-2-pentanone                  | 5.0 U    |       | 0.56  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Acetone                               | 5.0 T    | J 5.0 | 0.69  | 1        | NA        | 5/26/10 16:54 | f          | 202273  |         |
| Benzene                               | 1.0 U    |       | 0.098 | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Bromochloromethane                    | 1.0 T    |       | 0.18  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Bromodichloromethane                  | 1.0 U    | J 1.0 | 0.15  | 1        | NA        | 5/26/10 16:54 | <b>!</b>   | 202273  |         |
| Bromoform                             | 1.0 U    |       | 0.14  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Bromomethane                          | 1.0 U    |       | 0.12  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Carbon Disulfide                      | 1.0 t    | J 1.0 | 0.16  | 1        | NA        | 5/26/10 16:54 | ŀ          | 202273  |         |
| Carbon Tetrachloride                  | 4.8      | 1.0   | 0.12  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Chlorobenzene                         | 1.0 U    |       | 0.14  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Chloroethane                          | 1.0 l    | J 1.0 | 0.21  | 1        | NA        | 5/26/10 16:54 | <u>ا</u>   | 202273  |         |
| Chloroform                            | 1.0 U    |       | 0.15  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Chloromethane                         | 1.0 L    |       | 0.12  | 1        | NA        | 5/26/10 16:54 | ŀ          | 202273  |         |
| cis-1,2-Dichloroethene                | 1.0 L    | J 1.0 | 0.11  | 1        | NA        | 5/26/10 16:54 | ļ          | 202273  |         |
| cis-1,3-Dichloropropene               | 1.0 U    |       | 0.079 | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Dibromochloromethane                  | 1.0 L    |       | 0.13  | 1        | NA        | 5/26/10 16:54 |            | 202273  |         |
| Ethylbenzene                          | 1.0 U    | J 1.0 | 0.13  | 1        | NA        | 5/26/10 16:54 | ŀ          | 202273  |         |
|                                       |          |       |       |          |           |               |            |         | · ··· - |

#### Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10   |
| Sample Matrix: | Water                                     | Date Received: 5/20/10    |
| Sample Name:   | DUPE A                                    | Units: µg/L               |
| Lab Code:      | R1002703-002                              | Basis: NA                 |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | <b>Extraction Analys</b> | is     |
|---|----------|-----|-------|----------|-----------|---------------|--------------------------|--------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot                  | Note   |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:54 | 202273                   |        |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 16:54 | 202273                   | 1      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:54 | 202273                   | ł      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 16:54 | 202273                   | ,<br>, |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 16:54 | 202273                   | ļ      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 16:54 | ł 202273                 |        |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 16:54 | 202273                   |        |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:54 | 202273                   | i      |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 16:54 | 202273                   | I.     |
| Trichloroethene (TCE)                   | 10       | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:54 | 202273                   |        |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:54 | 202273                   |        |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 16:54 | 202273                   |        |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 91   | 80-120            | 5/26/10 16:54      |      |  |

Analytical Report

|                                       | Analytical Report   |                             |
|---------------------------------------|---|-----------------------------|
| Client:                               | Shaw Environmental & Infrastructure, Inc.   | Service Request: R1002703   |
| Project:                              | GE MRFA/138165  | Date Collected: 5/19/10     |
| Sample Matrix:                        | Water   | Date Received: 5/20/10      |
|                                       |   | Date Analyzed: 5/26/10 1654 |
|                                       | Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/ | MS                          |
|                                       | Don Devel Water Volatile Organie Compounds by GO  |                             |
| Sample Name:                          | DUPE A  | Units: µg/L                 |
| Lab Code:                             | R1002703-002  | Basis: NA                   |
| Analytical Method:                    | CLP-VOA OLC02.1   |                             |
| CAS # Analy                           | yte Name RT Result Q  |                             |
| · · · · · · · · · · · · · · · · · · · | No Tentatively Identified Compounds Detected.   |                             |

Comments:

.

# 00014

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10 1330 |
| Sample Matrix: | Water                                     | Date Received: 5/20/10       |
| Sample Name:   | M-27D                                     | Units: µg/L                  |
| Lab Code:      | R1002703-003                              | Basis: NA                    |

#### Low Level Water Volatile Organic Compounds by GC/MS

-----

#### Analytical Method: CLP-VOA OLC02.1

| I., I., T-Trichloroethane (TCA)1.0U1.00.141NA $5/26/10$ 17:3120:I., I., ZTrichloroethane1.0U1.00.121NA $5/26/10$ 17:3120:I., I., ZTrichloroethane1.0U1.00.111NA $5/26/10$ 17:3120:I., IDichloroethane(1, I-DCA)1.0U1.00.111NA $5/26/10$ 17:3120:I., IDichloroethane(1, I-DCE)1.0U1.00.171NA $5/26/10$ 17:3120:I., IDichloroethane1.0U1.00.181NA $5/26/10$ 17:3120:I., 2, A-Trichlorobenzene1.0U1.00.131NA $5/26/10$ 17:3120:I., 2-Dibromo-3-chloropropane1.0U1.00.141NA $5/26/10$ 17:3120:I., 2-Dichloroethane1.0U1.00.141NA $5/26/10$ 17:3120:I., 2-Dichloroethane1.0U1.00.0571NA $5/26/10$ 17:3120:I., 2-Dichlorobenzene1.0U1.00.0571NA $5/26/10$ 17:3120:I., 2-Dichlorobenzene1.0U1.00.0521NA $5/26/10$ 17:3120:I., 2-Dichlorobenzene1.0U1.00.0521NA $5/26/10$ 17:3120: <t< th=""><th>ysis</th></t<>   | ysis    |
|---|---------|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | ot Note |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 73      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | .73     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | ,73     |
| 1.2,4-Trichlorobenzene       1.0       U       1.0       0.13       1       NA       5/26/10       17:31       200         1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.34       1       NA       5/26/10       17:31       200         1,2-Dibromoethane       1.0       U       1.0       0.14       1       NA       5/26/10       17:31       200         1,2-Dichloroetnane       1.0       U       1.0       0.057       1       NA       5/26/10       17:31       200         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/26/10       17:31       200         1,2-Dichlorobenzene       1.0       U       1.0       0.052       1       NA       5/26/10       17:31       200         1,2-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10       17:31       200         1,2-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10       17:31       200         1,4-Dichlorobenzene       5.0       U       5.0       0.51       1       NA       5/26/10       17:31       <  |         |
| 1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.34       1       NA       5/26/10       17:31       203         1,2-Dibromoethane       1.0       U       1.0       0.14       1       NA       5/26/10       17:31       203         1,2-Dichloroethane       1.0       U       1.0       0.057       1       NA       5/26/10       17:31       203         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/26/10       17:31       203         1,2-Dichlorobenzene       1.0       U       1.0       0.089       1       NA       5/26/10       17:31       203         1,2-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10       17:31       203         1,3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10       17:31       203         1,4-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10       17:31       203         2-Butanone       5.0       U       5.0       0.51       1       NA       5/26/10       17:31       203   | .73     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | .73     |
| 1,2-Dichloroethane1.0U1.00.0571NA $5/26/10$ 17:31201,2-Dichlorobenzene1.0U1.00.0891NA $5/26/10$ 17:31201,2-Dichloropropane1.0U1.00.151NA $5/26/10$ 17:31201,3-Dichlorobenzene1.0U1.00.0921NA $5/26/10$ 17:31201,4-Dichlorobenzene1.0U1.00.0921NA $5/26/10$ 17:31202-Butanone (MEK)5.0U5.00.751NA $5/26/10$ 17:31202-Hexanone5.0U5.00.511NA $5/26/10$ 17:31204-Methyl-2-pentanone5.0U5.00.561NA $5/26/10$ 17:3120Acctone0.99BJ5.00.691NA $5/26/10$ 17:3120Benzene1.0U1.00.0981NA $5/26/10$ 17:3120Bromochloromethane1.0U1.00.181NA $5/26/10$ 17:3120Bromoform1.0U1.00.141NA $5/26/10$ 17:3120Bromoform1.0U1.00.141NA $5/26/10$ 17:3120Carbon Disulfide1.0U1.00.141NA $5/26/10$ 17:3120Chlorobenz   | 73      |
| 1,2-Dichlorobenzene1.0U1.00.0891NA5/26/1017:312001,2-Dichloropropane1.0U1.00.151NA5/26/1017:312001,3-Dichlorobenzene1.0U1.00.0921NA5/26/1017:312001,4-Dichlorobenzene1.0U1.00.0921NA5/26/1017:312002-Butanone (MEK)5.0U5.00.751NA5/26/1017:312002-Hexanone5.0U5.00.511NA5/26/1017:312004-Methyl-2-pentanone5.0U5.00.561NA5/26/1017:31200Acetone0.99BJ5.00.6691NA5/26/1017:31200Benzene1.0U1.00.0981NA5/26/1017:31200Bromochloromethane1.0U1.00.181NA5/26/1017:31200Bromodichloromethane1.0U1.00.151NA5/26/1017:31200Bromodichloromethane1.0U1.00.141NA5/26/1017:31200Bromodichloromethane1.0U1.00.121NA5/26/1017:31200Carbon Disulfide1.0U1.00.121NA5/26/1017:31200C  | .73     |
| 1,2-Dichloropropane         1.0         U         1.0         0.15         1         NA         5/26/10 17:31         200           1,3-Dichlorobenzene         1.0         U         1.0         0.092         1         NA         5/26/10 17:31         200           1,4-Dichlorobenzene         1.0         U         1.0         0.085         1         NA         5/26/10 17:31         200           2-Butanone (MEK)         5.0         U         5.0         0.75         1         NA         5/26/10 17:31         200           2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10 17:31         200           2-Hexanone         5.0         U         5.0         0.56         1         NA         5/26/10 17:31         200           4-Methyl-2-pentanone         5.0         U         5.0         0.69         1         NA         5/26/10 17:31         200           Acctone         0.99         BJ         5.0         0.69         1         NA         5/26/10 17:31         200           Benzene         1.0         U         1.0         0.18         1         NA         5/26/10 17:31         200 | .73     |
| 1,3-Dichlorobenzene         1.0         U         1.0         0.092         1         NA         5/26/10         17:31         20           1,4-Dichlorobenzene         1.0         U         1.0         0.085         1         NA         5/26/10         17:31         20           2-Butanone (MEK)         5.0         U         5.0         0.75         1         NA         5/26/10         17:31         20           2-Hexanone (MEK)         5.0         U         5.0         0.75         1         NA         5/26/10         17:31         20           2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10         17:31         20           4-Methyl-2-pentanone         5.0         U         5.0         0.56         1         NA         5/26/10         17:31         20           Acetone         0.99         BJ         5.0         0.69         1         NA         5/26/10         17:31         20           Benzene         1.0         U         1.0         0.098         1         NA         5/26/10         17:31         20           Bromodichloromethane         1.0         U         1.0     | .73     |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   | .73     |
| 2-Butanone (MEK)5.0U5.00.751NA5/26/1017:312002-Hexanone5.0U5.00.511NA5/26/1017:312004-Methyl-2-pentanone5.0U5.00.561NA5/26/1017:31200Acetone0.99BJ5.00.691NA5/26/1017:31200Benzene1.0U1.00.0981NA5/26/1017:31200Bromochloromethane1.0U1.00.181NA5/26/1017:31200Bromodichloromethane1.0U1.00.151NA5/26/1017:31200Bromoform1.0U1.00.141NA5/26/1017:31200Bromomethane1.0U1.00.141NA5/26/1017:31200Bromoform1.0U1.00.121NA5/26/1017:31200Bromomethane1.0U1.00.121NA5/26/1017:31200Carbon Disulfide1.0U1.00.121NA5/26/1017:31200Carbon Tetrachloride4.21.00.121NA5/26/1017:31200Chlorobenzene1.0U1.00.141NA5/26/1017:31200Chloroform1.0U1.00.1   |         |
| 2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10         17:31         20           4-Methyl-2-pentanone         5.0         U         5.0         0.56         1         NA         5/26/10         17:31         20           Acetone         0.99         BJ         5.0         0.69         1         NA         5/26/10         17:31         20           Benzene         1.0         U         1.0         0.098         1         NA         5/26/10         17:31         20           Bromochloromethane         1.0         U         1.0         0.098         1         NA         5/26/10         17:31         20           Bromochloromethane         1.0         U         1.0         0.18         1         NA         5/26/10         17:31         20           Bromoform         1.0         U         1.0         0.15         1         NA         5/26/10         17:31         20           Bromoform         1.0         U         1.0         0.14         1         NA         5/26/10         17:31         20           Carbon Disulfide         1.0         U         1.0         0.12             |         |
| 4-Methyl-2-pentanone5.0U5.00.561NA5/26/1017:31200Acetone0.99BJ5.00.691NA5/26/1017:31200Benzene1.0U1.00.0981NA5/26/1017:31200Bromochloromethane1.0U1.00.181NA5/26/1017:31200Bromodichloromethane1.0U1.00.181NA5/26/1017:31200Bromodichloromethane1.0U1.00.151NA5/26/1017:31200Bromoform1.0U1.00.141NA5/26/1017:31200Bromoform1.0U1.00.141NA5/26/1017:31200Bromomethane1.0U1.00.121NA5/26/1017:31200Carbon Disulfide1.0U1.00.121NA5/26/1017:31200Carbon Tetrachloride4.21.00.121NA5/26/1017:31200Chlorobenzene1.0U1.00.141NA5/26/1017:31200Chloroform1.0U1.00.121NA5/26/1017:31200Chloroform1.0U1.00.151NA5/26/1017:31200Chloromethane1.0U1.0 <t< td=""><td>.73</td></t<>   | .73     |
| Acetone0.99BJ5.00.691NA5/26/1017:31200Benzene1.0U1.00.0981NA5/26/1017:31200Bromochloromethane1.0U1.00.181NA5/26/1017:31200Bromodichloromethane1.0U1.00.181NA5/26/1017:31200Bromodichloromethane1.0U1.00.151NA5/26/1017:31200Bromoform1.0U1.00.141NA5/26/1017:31200Bromoform1.0U1.00.141NA5/26/1017:31200Bromoform1.0U1.00.121NA5/26/1017:31200Carbon Disulfide1.0U1.00.121NA5/26/1017:31200Carbon Tetrachloride4.21.00.121NA5/26/1017:31200Chlorobenzene1.0U1.00.141NA5/26/1017:31200Chloroform1.0U1.00.151NA5/26/1017:31200Chloromethane1.0U1.00.151NA5/26/1017:31200Chloroform1.0U1.00.151NA5/26/1017:31200Chloromethane1.0U1.00.12 <td></td>   |         |
| Benzene1.0U1.00.0981NA5/26/10 17:31200Bromochloromethane1.0U1.00.181NA5/26/10 17:31200Bromodichloromethane1.0U1.00.151NA5/26/10 17:31200Bromoform1.0U1.00.151NA5/26/10 17:31200Bromoform1.0U1.00.141NA5/26/10 17:31200Bromoform1.0U1.00.141NA5/26/10 17:31200Bromomethane1.0U1.00.121NA5/26/10 17:31200Carbon Disulfide1.0U1.00.161NA5/26/10 17:31200Carbon Tetrachloride4.21.00.121NA5/26/10 17:31200Chlorobenzene1.0U1.00.141NA5/26/10 17:31200Chloroethane1.0U1.00.211NA5/26/10 17:31200Chloroform1.0U1.00.151NA5/26/10 17:31200Chloromethane1.0U1.00.151NA5/26/10 17:31200Chloromethane1.0U1.00.151NA5/26/10 17:31200Chloromethane1.0U1.00.121NA5/26/10 17:31200Chloromethane1.0U1  |         |
| Bromochloromethane1.0U1.00.181NA5/26/10 17:31200Bromodichloromethane1.0U1.00.151NA5/26/10 17:31200Bromoform1.0U1.00.141NA5/26/10 17:31200Bromomethane1.0U1.00.141NA5/26/10 17:31200Carbon Disulfide1.0U1.00.121NA5/26/10 17:31200Carbon Tetrachloride4.21.00.161NA5/26/10 17:31200Chlorobenzene1.0U1.00.121NA5/26/10 17:31200Chloroethane1.0U1.00.121NA5/26/10 17:31200Chloroform1.0U1.00.141NA5/26/10 17:31200Chloroform1.0U1.00.151NA5/26/10 17:31200Chloromethane1.0U1.00.151NA5/26/10 17:31200Chloroform1.0U1.00.151NA5/26/10 17:31200Chloromethane1.0U1.00.121NA5/26/10 17:31200Chloromethane1.0U1.00.121NA5/26/10 17:31200Chloromethane1.0U1.00.121NA5/26/10 17:31200   | .73     |
| Bromodichloromethane1.0U1.00.151NA5/26/10 17:31202Bromoform1.0U1.00.141NA5/26/10 17:31202Bromomethane1.0U1.00.121NA5/26/10 17:31202Carbon Disulfide1.0U1.00.161NA5/26/10 17:31202Carbon Tetrachloride4.21.00.161NA5/26/10 17:31202Chlorobenzene1.0U1.00.121NA5/26/10 17:31202Chloroethane1.0U1.00.141NA5/26/10 17:31202Chloroform1.0U1.00.151NA5/26/10 17:31202Chloromethane1.0U1.00.151NA5/26/10 17:31202Chloroform1.0U1.00.151NA5/26/10 17:31202Chloromethane1.0U1.00.151NA5/26/10 17:31202   |         |
| Bromoform1.0U1.00.141NA5/26/1017:31202Bromomethane1.0U1.00.121NA5/26/1017:31202Carbon Disulfide1.0U1.00.161NA5/26/1017:31202Carbon Tetrachloride4.21.00.161NA5/26/1017:31202Carbon Tetrachloride4.21.00.121NA5/26/1017:31202Chlorobenzene1.0U1.00.141NA5/26/1017:31202Chloroethane1.0U1.00.211NA5/26/1017:31202Chloroform1.0U1.00.151NA5/26/1017:31202Chloromethane1.0U1.00.151NA5/26/1017:31202Chloromethane1.0U1.00.121NA5/26/1017:31202  |         |
| Bromomethane1.0U1.00.121NA5/26/10 17:31202Carbon Disulfide1.0U1.00.161NA5/26/10 17:31202Carbon Tetrachloride4.21.00.121NA5/26/10 17:31202Chlorobenzene1.0U1.00.141NA5/26/10 17:31202Chloroethane1.0U1.00.211NA5/26/10 17:31202Chloroform1.0U1.00.211NA5/26/10 17:31202Chloroform1.0U1.00.151NA5/26/10 17:31202Chloromethane1.0U1.00.121NA5/26/10 17:31202   | .73     |
| Carbon Disulfide1.0U1.00.161NA5/26/10 17:31202Carbon Tetrachloride <b>4.2</b> 1.00.121NA5/26/10 17:31202Chlorobenzene1.0U1.00.141NA5/26/10 17:31202Chloroethane1.0U1.00.141NA5/26/10 17:31202Chloroform1.0U1.00.211NA5/26/10 17:31202Chloromethane1.0U1.00.151NA5/26/10 17:31202Chloromethane1.0U1.00.121NA5/26/10 17:31202   |         |
| Carbon Tetrachloride4.21.00.121NA5/26/10 17:31202Chlorobenzene1.0U1.00.141NA5/26/10 17:31202Chloroethane1.0U1.00.211NA5/26/10 17:31202Chloroform1.0U1.00.211NA5/26/10 17:31202Chloroform1.0U1.00.151NA5/26/10 17:31202Chloromethane1.0U1.00.121NA5/26/10 17:31202   |         |
| Chlorobenzene1.0U1.00.141NA5/26/10 17:31202Chloroethane1.0U1.00.211NA5/26/10 17:31202Chloroform1.0U1.00.151NA5/26/10 17:31202Chloromethane1.0U1.00.121NA5/26/10 17:31202  | .73     |
| Chloroethane1.0 U1.0 0.211NA5/26/10 17:31202Chloroform1.0 U1.0 0.151NA5/26/10 17:31202Chloromethane1.0 U1.0 0.121NA5/26/10 17:31202   |         |
| Chloroform1.0 U1.0 0.151NA5/26/10 17:31202Chloromethane1.0 U1.0 0.121NA5/26/10 17:31202   |         |
| Chloromethane         1.0 U         1.0 0.12         1         NA         5/26/10 17:31         202   | .73     |
|   |         |
| 10 II 10 011 1 NA 5/26/10 17:21 200   |         |
| 1.0 0 1.0 0.11 1 1 1 1 1 1 1 1 1 1 1 1 1  | .73     |
| cis-1,3-Dichloropropene 1.0 U 1.0 0.079 1 NA 5/26/10 17:31 202  | .73     |
| Dibromochloromethane 1.0 U 1.0 0.13 1 NA 5/26/10 17:31 202  | .73     |
| Ethylbenzene 1.0 U 1.0 0.13 1 NA 5/26/10 17:31 202  | 73      |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10 1330 |
| Sample Matrix: | Water                                     | Date Received: 5/20/10       |
| Sample Name:   | M-27D                                     | Units: μg/L                  |
| Lab Code:      | R1002703-003                              | Basis: NA                    |

# Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|   |        |   |     |       | Dilution | Dilution Date | Date          | Extraction | Analysi | S    |
|---|--------|---|-----|-------|----------|---------------|---------------|------------|---------|------|
| Analyte Name                            | Result | Q | MRL | MDL   | Factor   | Extracted     | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0    | U | 1.0 | 0.18  | 1        | NA            | 5/26/10 17:31 | ί          | 202273  |      |
| m,p-Xylenes                             | 1.0    | U | 1.0 | 0.22  | 1        | NA            | 5/26/10 17:31 | [          | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0    | U | 1.0 | 0.16  | 1        | NA            | 5/26/10 17:31 | l          | 202273  |      |
| o-Xylene                                | 1.0    | U | 1.0 | 0.11  | 1        | NA            | 5/26/10 17:31 |            | 202273  |      |
| Styrene                                 | 1.0    | U | 1.0 | 0.096 | 1        | NA            | 5/26/10 17:31 | L          | 202273  |      |
| Tetrachloroethene (PCE)                 | 1.0    | U | 1.0 | 0.15  | 1        | NA            | 5/26/10 17:31 | L          | 202273  |      |
| Toluene                                 | 1.0    | U | 1.0 | 0.098 | 1        | NA            | 5/26/10 17:31 | l          | 202273  |      |
| trans-1,2-Dichloroethene                | 1.0    | U | 1.0 | 0.16  | 1        | NA            | 5/26/10 17:31 | L          | 202273  |      |
| trans-1,3-Dichloropropene               | 1.0    | U | 1.0 | 0.060 | 1        | NA            | 5/26/10 17:31 | L          | 202273  |      |
| Trichloroethene (TCE)                   | 9,3    |   | 1.0 | 0.16  | 1        | NA            | 5/26/10 17:31 | l          | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 1.0    | U | 1.0 | 0.18  | 1        | NA            | 5/26/10 17:31 | L          | 202273  |      |
| Vinyl Chloride                          | 1.0    | U | 1.0 | 0.14  | 1        | NA            | 5/26/10 17:31 | l          | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note | _ |
|----------------------|------|-------------------|--------------------|------|---|
| 4-Bromofluorobenzene | 94   | 80-120            | 5/26/10 17:31      |      |   |

Analytical Report

| Client:<br>Project:<br>Sample Matrix:   | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |                  |  |  |  |  |  |  |  |
|---|---|--------------------|------------------|--|--|--|--|--|--|--|
| Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |   |                    |                  |  |  |  |  |  |  |  |
| Sample Name:<br>Lab Code:   | M-27D<br>R1002703-003   |                    | Units:<br>Basis: |  |  |  |  |  |  |  |
| Analytical Method:  | CLP-VOA OLC02.1   |                    |                  |  |  |  |  |  |  |  |
| CAS # Analy   | te Name RT  | Result Q           |                  |  |  |  |  |  |  |  |
|   | No Tentatively Identified Compounds Detected.                           |                    |                  |  |  |  |  |  |  |  |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: | 5/19/10 1045 |
|----------------|---|------------------|--------------|
| Project:       | GE MRFA/138165                            | Date Collected:  |              |
| Sample Matrix: | Water                                     | Date Received:   |              |
| Sample Name:   | M-24DR                                    | Units:           |              |
| Lab Code:      | R1002703-005                              | Basis:           |              |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|                              |               |     |       | Dilution | Date      | Date          | Extraction Analysis |
|------------------------------|---------------|-----|-------|----------|-----------|---------------|---------------------|
| Analyte Name                 | Result Q      | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot Note        |
| 1,1,1-Trichloroethane (TCA)  | 1.0 U         | 1.0 | 0.14  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 1,1,2,2-Tetrachloroethane    | 1.0 U         | 1.0 | 0.12  | 1        | NA        | 5/27/10 15:44 |                     |
| 1,1,2-Trichloroethane        | 1.0 U         | 1.0 | 0.11  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U         | 1.0 | 0.11  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U         | 1.0 | 0.17  | 1        | NA        | 5/27/10 15:44 |                     |
| 1,2,3-Trichlorobenzene       | 1.0 U         | 1.0 | 0.18  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 1,2,4-Trichlorobenzene       | 1.0 U         | 1.0 | 0.13  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 1,2-Dibromo-3-chloropropane  | 1.0 U         | 1.0 | 0.34  | 1        | NA        | 5/27/10 15:44 | 202478              |
| (DBCP)<br>1,2-Dibromoethane  | 1.0 U         | 1.0 | 0.14  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 1,2-Dichloroethane           | 1.0 U         | 1.0 | 0.057 | 1        | NA        | 5/27/10 15:44 | ······              |
| 1,2-Dichlorobenzene          | 1.0 U         | 1.0 | 0.089 | 1        | NA        | 5/27/10 15:44 |                     |
| 1,2-Dichloropropane          | 1.0 U         | 1.0 | 0.15  | 1        | NA        | 5/27/10 15:44 |                     |
| 1,3-Dichlorobenzene          | 1.0 U         | 1.0 | 0.092 | 1        | NA        | 5/27/10 15:44 | 202478              |
| 1,4-Dichlorobenzene          | 1.0 U         | 1.0 | 0.085 | 1        | NA        | 5/27/10 15:44 | 202478              |
| 2-Butanone (MEK)             | 5.0 U         | 5.0 | 0.75  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 2-Hexanone                   | 5.0 U         | 5.0 | 0.51  | 1        | NA        | 5/27/10 15:44 | 202478              |
| 4-Methyl-2-pentanone         | 5.0 U         | 5.0 | 0.56  | 1        | NA        | 5/27/10 15:44 |                     |
| Acetone                      | <b>1.4</b> BJ | 5.0 | 0.69  | 1        | NA        | 5/27/10 15:44 | 202478              |
| Benzene                      | 1.0 U         | 1.0 | 0,098 | 1        | NA        | 5/27/10 15:44 | 202478              |
| Bromochloromethane           | 1.0 U         | 1.0 | 0.18  | 1        | NA        | 5/27/10 15:44 |                     |
| Bromodichloromethane         | 1.0 U         | 1.0 | 0.15  | 1        | NA        | 5/27/10 15:44 | 202478              |
| Bromoform                    | 1.0 U         | 1.0 | 0.14  | 1        | NA        | 5/27/10 15:44 | 202478              |
| Bromomethane                 | 1.0 U         | 1.0 | 0.12  | 1        | NA        | 5/27/10 15:44 |                     |
| Carbon Disulfide             | 1.0 U         | 1.0 | 0.16  | 1        | NA        | 5/27/10 15:44 | 202478              |
| Carbon Tetrachloride         | 5.5           | 1.0 | 0.12  | 1        | NA        | 5/27/10 15:44 |                     |
| Chlorobenzene                | 1.0 U         | 1.0 | 0.14  | 1        | NA        | 5/27/10 15:44 |                     |
| Chloroethane                 | 1.0 U         | 1.0 | 0.21  | 1        | NA        | 5/27/10 15:44 | 202478              |
| Chloroform                   | 0.25 J        | 1.0 | 0.15  | 1        | NA        | 5/27/10 15:44 |                     |
| Chloromethane                | 1.0 U         | 1.0 | 0.12  | 1        | NA        | 5/27/10 15:44 |                     |
| cis-1,2-Dichloroethene       | 1.0 U         | 1.0 | 0.11  | 1        | NA        | 5/27/10 15:44 | 202478              |
| cis-1,3-Dichloropropene      | 1.0 U         | 1.0 | 0.079 | 1        | NA        | 5/27/10 15:44 |                     |
| Dibromochloromethane         | 1.0 U         | 1.0 | 0.13  | 1        | NA        | 5/27/10 15:44 |                     |
| Ethylbenzene                 | 1.0 U         | 1.0 | 0.13  | 1        | NA        | 5/27/10 15:44 | 202478              |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R10 | 02703     |
|----------------|---|----------------------|-----------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19 | 9/10 1045 |
| Sample Matrix: | Water                                     | Date Received: 5/20  | 0/10      |
| Sample Name:   | M-24DR                                    | Units: µg/I          | L         |
| Lab Code:      | R1002703-005                              | Basis: NA            |           |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | S    |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 15:44 |            | 202478  |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/27/10 15:44 | ŀ          | 202478  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 15:44 | ŀ          | 202478  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 15:44 |            | 202478  |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/27/10 15:44 | Ļ          | 202478  |      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 15:44 | ļ          | 202478  |      |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/27/10 15:44 | ļ.         | 202478  |      |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 15:44 | Ļ          | 202478  |      |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/27/10 15:44 | ŀ          | 202478  |      |
| Trichloroethene (TCE)                   | 18       | 1.0 | 0.16  | 1        | NA        | 5/27/10 15:44 | •          | 202478  |      |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 15:44 | Ļ          | 202478  |      |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 15:44 | ŀ          | 202478  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |  |
|----------------------|------|-------------------|------------------|---|------|--|
| 4-Bromofluorobenzene | 90   | 80-120            | 5/27/10 15:44    |   |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix:   | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |  |  |  |  |  |  |  |  |  |
|---|---|--------------------|--|--|--|--|--|--|--|--|--|
| Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |   |                    |  |  |  |  |  |  |  |  |  |
| Sample Name:<br>Lab Code:   | M-24DR<br>R1002703-005  | Units:<br>Basis:   |  |  |  |  |  |  |  |  |  |
| Analytical Method:  | CLP-VOA OLC02.1   |                    |  |  |  |  |  |  |  |  |  |
| CAS # Analy   | yte Name RT Result Q  |                    |  |  |  |  |  |  |  |  |  |
|   | No Tentatively Identified Compounds Detected.                           |                    |  |  |  |  |  |  |  |  |  |



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:WaterSample Name:M-25DLab Code:R1002703-006

Service Request: R1002703 Date Collected: 5/19/10 0930 Date Received: 5/20/10

> Units: µg/L Basis: NA

#### Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|                                       |              |     |      | Dilution | Date      | Date          | <b>Extraction Analysi</b> | s    |
|---------------------------------------|--------------|-----|------|----------|-----------|---------------|---------------------------|------|
| Analyte Name                          | Result Q     | MRL | MDL  | Factor   | Extracted | Analyzed      | Lot Lot                   | Note |
| 1,1,1-Trichloroethane (TCA)           | 5.0 U        | 5.0 | 0.71 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,1,2,2-Tetrachloroethane             | 5.0 U        | 5.0 | 0,60 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,1,2-Trichloroethane                 | 5.0 U        | 5.0 | 0.55 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,1-Dichloroethane (1,1-DCA)          | 5.0 U        | 5.0 | 0.55 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,1-Dichloroethene (1,1-DCE)          | 5.0 U        | 5.0 | 0,86 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,2,3-Trichlorobenzene                | 5.0 U        | 5.0 | 0.90 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,2,4-Trichlorobenzene                | 5.0 U        | 5.0 | 0.65 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 5.0 U        | 5.0 | 1.8  | 5        | NA        | 5/26/10 18:43 |                           |      |
| 1,2-Dibromoethane                     | 5.0 U        | 5.0 | 0.71 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,2-Dichloroethane                    | 5.0 U        | 5.0 | 0.29 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,2-Dichlorobenzene                   | 5.0 U        | 5.0 | 0.45 | 5        | NA        | 5/26/10 18:43 |                           |      |
| 1,2-Dichloropropane                   | 5.0 U        | 5.0 | 0,75 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 1,3-Dichlorobenzene                   | 5.0 U        | 5.0 | 0.46 | 5        | NA        | 5/26/10 18:43 |                           |      |
| 1,4-Dichlorobenzene                   | 5.0 U        | 5.0 | 0.43 | 5        | NA        | 5/26/10 18:43 |                           |      |
| 2-Butanone (MEK)                      | 25 U         | 25  | 3.8  | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| 2-Hexanone                            | 25 U         | 25  | 2.6  | 5        | NA        | 5/26/10 18:43 |                           |      |
| 4-Methyl-2-pentanone                  | 25 U         | 25  | 2.9  | 5        | NA        | 5/26/10 18:43 |                           |      |
| Acetone                               | 4.7 BJ       | 25  | 3.5  | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| Benzene                               | 5.0 U        | 5.0 | 0.49 | 5        | NA        | 5/26/10 18:43 |                           |      |
| Bromochloromethane                    | 5.0 U        | 5.0 | 0.90 | 5        | NA        | 5/26/10 18:43 |                           |      |
| Bromodichloromethane                  | 5.0 U        | 5.0 | 0.75 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| Bromoform                             | 5.0 U        | 5.0 | 0.71 | 5        | NA        | 5/26/10 18:43 |                           |      |
| Bromomethane                          | 5.0 U        | 5.0 | 0.60 | 5        | NA        | 5/26/10 18:43 |                           |      |
| Carbon Disulfide                      | 5.0 U        | 5.0 | 0.80 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| Carbon Tetrachloride                  | 35           | 5.0 | 0.60 | 5        | NA        | 5/26/10 18:43 |                           |      |
| Chlorobenzene                         | 5.0 U        | 5.0 | 0.71 | 5        | NA        | 5/26/10 18:43 |                           |      |
| Chloroethane                          | 5.0 U        | 5.0 | 1.1  | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| Chloroform                            | <b>3.0</b> J | 5.0 | 0.75 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| Chloromethane                         | 5.0 U        | 5.0 | 0.60 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| cis-1,2-Dichloroethene                | 5.0 U        | 5.0 | 0.55 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| cis-1,3-Dichloropropene               | 5.0 U        | 5.0 | 0.40 | 5        | NA        | 5/26/10 18:43 |                           |      |
| Dibromochloromethane                  | 5.0 U        | 5.0 | 0.65 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
| Ethylbenzene                          | 5.0 U        | 5.0 | 0.65 | 5        | NA        | 5/26/10 18:43 | 202273                    |      |
|                                       |              |     |      |          |           |               |                           |      |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R | /19/10 0930 |
|----------------|---|--------------------|-------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/ |             |
| Sample Matrix: | Water                                     | Date Received: 5/  |             |
| Sample Name:   | M-25D                                     | Units: µ           | •           |
| Lab Code:      | R1002703-006                              | Basis: N           |             |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|   |        |   |     |      | Dilution | Date      | Date          | Extraction | Analysi | S    |
|---|--------|---|-----|------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result | Q | MRL | MDL  | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 5.0    | U | 5.0 | 0.90 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| m,p-Xylenes                             | 5.0    | U | 5.0 | 1.1  | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 5.0    | U | 5.0 | 0.80 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| o-Xylene                                | 5.0    | U | 5.0 | 0.55 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Styrene                                 | 5.0    | U | 5.0 | 0.48 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Tetrachloroethene (PCE)                 | 5.0    | U | 5.0 | 0.75 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Toluene                                 | 5.0    | U | 5.0 | 0.49 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| trans-1,2-Dichloroethene                | 5.0    | U | 5.0 | 0.80 | 5        | NA        | 5/26/10 18:43 | ;          | 202273  |      |
| trans-1,3-Dichloropropene               | 5.0    | U | 5.0 | 0.30 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Trichloroethene (TCE)                   | 76     |   | 5.0 | 0.80 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 5.0    | U | 5.0 | 0.90 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Vinyl Chloride                          | 5.0    | U | 5.0 | 0.71 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |  |
|----------------------|------|-------------------|------------------|---|------|--|
| 4-Bromofluorobenzene | 95   | 80-120            | 5/26/10 18:43    |   |      |  |



Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |
|---------------------------------------|--|---|--------------------|
|                                       | Tentatively Identified Compo<br>Low Level Water Volatile Organic Co  |   |                    |
| Sample Name:<br>Lab Code:             | M-25D<br>R1002703-006  | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1  |   |                    |
| CAS # Anal                            | vte Name RT Result Q   |   |                    |

No Tentatively Identified Compounds Detected.



Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: | 5/19/10 1000 |
|----------------|---|------------------|--------------|
| Project:       | GE MRFA/138165                            | Date Collected:  |              |
| Sample Matrix: | Water                                     | Date Received:   |              |
| Sample Name:   | M-29                                      | Units:           |              |
| Lab Code:      | R1002703-007                              | Basis:           |              |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|                              |                |     |      | Dilution | Date      | Date                  | Extraction Analysis |      |
|------------------------------|----------------|-----|------|----------|-----------|-----------------------|---------------------|------|
| Analyte Name                 | Result Q       | MRL | MDL  | Factor   | Extracted | Analyzed              | Lot Lot N           | lote |
| 1,1,1-Trichloroethane (TCA)  | 4.2            | 2.0 | 0.28 | 2        | NA        | 5/26/10 19:33         | 202273              | —    |
| 1,1,2,2-Tetrachloroethane    | 2.0 U          | 2.0 | 0.24 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 1,1,2-Trichloroethane        | 2.0 U          | 2.0 | 0.22 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 1,1-Dichloroethane (1,1-DCA) | 2.0 U          | 2.0 | 0.22 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 1,1-Dichloroethene (1,1-DCE) | 2.0 U          | 2.0 | 0.34 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 1,2,3-Trichlorobenzene       | 2.0 U          | 2.0 | 0.36 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 1,2,4-Trichlorobenzene       | 2.0 U          | 2.0 | 0.26 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 1,2-Dibromo-3-chloropropane  | 2.0 U          | 2.0 | 0.68 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| (DBCP)                       | 20.11          | 2.0 | 0.20 | 2        | NT Á      | <i>5/06/</i> 10 10.22 | 202222              |      |
| 1,2-Dibromoethane            | 2.0 U          | 2.0 | 0.28 | 2        | NA        | 5/26/10 19:33         |                     |      |
| 1,2-Dichloroethane           | 2.0 U          | 2.0 | 0.12 | 2        | NA        | 5/26/10 19:33         |                     |      |
| 1,2-Dichlorobenzene          | 2.0 U          | 2.0 | 0.18 | 2        | NA        | 5/26/10 19:33         |                     |      |
| 1,2-Dichloropropane          | 2.0 U          | 2.0 | 0.30 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 1,3-Dichlorobenzene          | 2.0 U          | 2.0 | 0.19 | 2        | NA        | 5/26/10 19:33         |                     |      |
| 1,4-Dichlorobenzene          | 2.0 U          | 2.0 | 0.17 | 2        | NA        | 5/26/10 19:33         |                     |      |
| 2-Butanone (MEK)             | 10 U           | 10  | 1.5  | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| 2-Hexanone                   | 10 U           | 10  | 1.1  | 2        | NA        | 5/26/10 19:33         |                     |      |
| 4-Methyl-2-pentanone         | 10 U           | 10  | 1.2  | 2        | NA        | 5/26/10 19:33         |                     |      |
| Acetone                      | <b>3.</b> 7 BJ | 10  | 1.4  | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Benzene                      | 2.0 U          | 2.0 | 0.20 | 2        | NA        | 5/26/10 19:33         |                     |      |
| Bromochloromethane           | 2.0 U          | 2.0 | 0.36 | 2        | NA        | 5/26/10 19:33         |                     |      |
| Bromodichloromethane         | 2.0 U          | 2.0 | 0.30 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Bromoform                    | 2.0 U          | 2.0 | 0.28 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Bromomethane                 | 2.0 U          | 2.0 | 0.24 | 2        | NA        | 5/26/10 19:33         |                     |      |
| Carbon Disulfide             | 2.0 U          | 2.0 | 0.32 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Carbon Tetrachloride         | 28             | 2.0 | 0.24 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Chlorobenzene                | 2.0 U          | 2.0 | 0,28 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Chloroethane                 | 2.0 U          | 2.0 | 0.42 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Chloroform                   | 2.8            | 2.0 | 0,30 | 2        | NA        | 5/26/10 19:33         |                     |      |
| Chloromethane                | 2.0 U          | 2.0 | 0.24 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| cis-1,2-Dichloroethene       | 2.0 U          | 2.0 | 0.22 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| cis-1,3-Dichloropropene      | 2.0 U          | 2.0 | 0.16 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Dibromochloromethane         | 2.0 U          | 2.0 | 0.26 | 2        | NA        | 5/26/10 19:33         | 202273              |      |
| Ethylbenzene                 | 2.0 U          | 2.0 | 0.26 | 2        | NA        | 5/26/10 19:33         | 202273              |      |

#### Comments:

# 00024

#### Analytical Report

| Client:                                     | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|---|---|------------------------------|
| Project:                                    | GE MRFA/138165                            | Date Collected: 5/19/10 1000 |
| Sample Matrix:                              | Water                                     | Date Received: 5/20/10       |
| Sample Matrix:<br>Sample Name:<br>Lab Code: | M-29<br>R1002703-007                      | Units: µg/L<br>Basis: NA     |

# Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|   |          |     |      | Dilution | Date      | Date          | Extraction A | Analysi | s    |
|---|----------|-----|------|----------|-----------|---------------|--------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL  | Factor   | Extracted | Analyzed      | Lot          | Lot     | Note |
| Hexachlorobutadiene                     | 2.0 U    | 2.0 | 0.36 | 2        | NA        | 5/26/10 19:33 |              | 202273  |      |
| m,p-Xylenes                             | 2.0 U    | 2.0 | 0.44 | 2        | NA        | 5/26/10 19:33 | :            | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 2.0 U    | 2.0 | 0.32 | 2        | NA        | 5/26/10 19:33 | ; <u>;</u>   | 202273  |      |
| o-Xylene                                | 2.0 U    | 2.0 | 0.22 | 2        | NA        | 5/26/10 19:33 |              | 202273  |      |
| Styrene                                 | 2.0 U    | 2.0 | 0.20 | 2        | NA        | 5/26/10 19:33 | 1            | 202273  |      |
| Tetrachloroethene (PCE)                 | 2.0 U    | 2.0 | 0.30 | 2        | NA        | 5/26/10 19:33 | ; ;          | 202273  |      |
| Toluene                                 | 2.0 U    | 2.0 | 0.20 | 2        | NA        | 5/26/10 19:33 | ;            | 202273  |      |
| trans-1,2-Dichloroethene                | 2.0 U    | 2.0 | 0.32 | 2        | NA        | 5/26/10 19:33 | 1            | 202273  |      |
| trans-1,3-Dichloropropene               | 2.0 U    | 2.0 | 0.12 | 2        | NA        | 5/26/10 19:33 | ; ;          | 202273  |      |
| Trichloroethene (TCE)                   | 21       | 2.0 | 0.32 | 2        | NA        | 5/26/10 19:33 |              | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 2.0 U    | 2.0 | 0.36 | 2        | NA        | 5/26/10 19:33 | 1            | 202273  |      |
| Vinyl Chloride                          | 2.0 U    | 2.0 | 0.28 | 2        | NA        | 5/26/10 19:33 | i :          | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |  |
|----------------------|------|-------------------|------------------|---|------|--|
| 4-Bromofluorobenzene | 92   | 80-120            | 5/26/10 19:33    |   |      |  |



Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrast<br>GE MRFA/138165<br>Water | ructure, Inc. |          |                                    | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10                    |
|---------------------------------------|---|---------------|----------|------------------------------------|---|---------------------------------------|
|                                       |   | •             |          | pounds (TIC)<br>Compounds by GC/MS |   |                                       |
| Sample Name:                          | M-29  |               |          |                                    | Units:  |                                       |
| Lab Code:                             | R1002703-007  |               |          |                                    | Basis:  | NA                                    |
| Analytical Method:                    | CLP-VOA OLC02.1   |               |          |                                    |   |                                       |
| CAS # Analy                           | yte Name  | RT            | Result   | Q                                  |   |                                       |
|                                       | No Tentatively Identified (                             | Compounds D   | etected. |                                    |   | · · · · · · · · · · · · · · · · · · · |

Comments:

.



Analytical Report

| Client:                                     | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|---|---|---------------------------|
| Project:                                    | GE MRFA/138165                            | Date Collected: 5/19/10   |
| Sample Matrix:                              | Water                                     | Date Received: 5/20/10    |
| Sample Matrix:<br>Sample Name:<br>Lab Code: | TRIP BLANK<br>R1002703-008                | Units: µg/L<br>Basis: NA  |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

| Analyte NameResult QMRLMDLFactorExtractedAnalyzedLotLotNote1,1,1-Trichloroethane (TCA)1.0U1.00.141NA $5/26/10$ 20:102022731,1,2,2-Trichloroethane1.0U1.00.111NA $5/26/10$ 20:102022731,1,2-Trichloroethane1.0U1.00.111NA $5/26/10$ 20:102022731,1-Dichloroethane (1,1-DCA)1.0U1.00.111NA $5/26/10$ 20:102022731,2,3-Trichlorobenzene1.0U1.00.181NA $5/26/10$ 20:102022731,2,4-Trichlorobenzene1.0U1.00.131NA $5/26/10$ 20:102022731,2-Dibromo-3-chloropopane1.0U1.00.141NA $5/26/10$ 20:102022731,2-Dichloroethane1.0U1.00.0571NA $5/26/10$ 20:102022731,2-Dichloroetnane1.0U1.00.0571NA $5/26/10$ 20:102022731,2-Dichlorobenzene1.0U1.00.0891NA $5/26/10$ 20:102022731,2-Dichlorobenzene1.0U1.00.0921NA $5/26/10$ 20:102022731,2-Dichlorobenzene1.0U1.00.0921NA $5/26/10$ 20:102022731,2-Dichlorobenzene1.0U1.00.0921NA $5/26/1$   |                              |          |     |       | Dilution | Date      | Date          | Extraction A | nalysi | s    |
|---|------------------------------|----------|-----|-------|----------|-----------|---------------|--------------|--------|------|
| 1,1,2,2-Titchloroethane         1.0         U         1.0         0.12         1         NA         \$5/26/10         202273           1,1-Dichloroethane         1,1-DChloroethane         1,0         0,17         1         NA         \$5/26/10         201273           1,2,4-Trichloroethene         1,0         U         1,0         0,18         1         NA         \$5/26/10         201273           1,2-Trichloroethane         1.0         U         1.0         0,14         1         NA         \$5/26/10         202273           1,2-Dichloroethane         1.0         U         1.0         0.41         1         NA         \$5/26/10         202273           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         \$5/26/10         202273           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         \$5/26/10         202273           1,4-Dich   | Analyte Name                 | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot          | Lot    | Note |
| 1,1,2-Trichloroethane         1.0         U         1.0         0.11         1         NA         \$/26/10 20:10         202273           1,1-Dichloroethane (1,1-DCA)         1.0         U         1.0         0.11         1         NA         \$/26/10 20:10         202273           1,1-Dichloroethane (1,1-DCE)         1.0         U         1.0         0.17         1         NA         \$/26/10 20:10         202273           1,2,3-Trichlorobenzene         1.0         U         1.0         0.13         1         NA         \$/26/10 20:10         202273           1,2-Dirborno-3-chloropropane         1.0         U         1.0         0.34         1         NA         \$/26/10 20:10         202273           1,2-Dichloroethane         1.0         U         1.0         0.44         1         NA         \$/26/10 20:10         202273           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         \$/26/10 20:10         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.088         1         NA         \$/26/10 20:10         202273           1,4-Dichlorobenzene         1.0         U         1.0         0.085         1   | 1,1,1-Trichloroethane (TCA)  | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
|   |                              |          |     |       | 1        |           | 5/26/10 20:10 | 2            | 02273  |      |
| 1,1-Dickloroethene (1,1-DCE)       1.0       U       1.0       0.17       1       NA       5/26/10       202273         1,2,3-Trichlorobenzene       1.0       U       1.0       0.18       1       NA       5/26/10       201273         1,2,4-Trichlorobenzene       1.0       U       1.0       0.13       1       NA       5/26/10       201273         1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.14       1       NA       5/26/10       201273         1,2-Dibromoethane       1.0       U       1.0       0.14       1       NA       5/26/10       201273         1,2-Dichloroethane       1.0       U       1.0       0.057       1       NA       5/26/10       201273         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/26/10       201273         1,3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10       2010       202273         1,4-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10       2010       202273         2-Hexanone       5.0       U       5.0   | 1,1,2-Trichloroethane        | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:10 | י 2          | 02273  |      |
| 1,2,3-Trichlorobenzene         1.0         U         1.0         0.18         1         NA         5/26/10         20:10         202273           1,2,4-Trichlorobenzene         1.0         U         1.0         0.13         1         NA         5/26/10         20:10         202273           1,2-Dibromo-3-chloropropane         1.0         U         1.0         0.34         1         NA         5/26/10         20:10         202273           1,2-Dibromoethane         1.0         U         1.0         0.14         1         NA         5/26/10         20:10         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.057         1         NA         5/26/10         20:10         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.057         1         NA         5/26/10         20:10         202273           1,3-Dichlorobenzene         1.0         U         1.0         0.085         1         NA         5/26/10         20:10         202273           1,3-Dichlorobenzene         1.0         U         1.0         0.085         1         NA         5/26/10         20:10         202273           2-Hexan   | 1,1-Dichloroethane (1,1-DCA) | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |                              | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/26/10 20:10 | ) 2          | 02273  |      |
| 1,2-Dibromo-3-chloropropane<br>(DBCP)         1.0         U         1.0         0.34         1         NA         5/26/10 20:10         202273           1,2-Dibromoethane         1.0         U         1.0         0.14         1         NA         5/26/10 20:10         202273           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         5/26/10 20:10         202273           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         5/26/10 20:10         202273           1,3-Dichlorobenzene         1.0         U         1.0         0.088         1         NA         5/26/10 20:10         202273           1,4-Dichlorobenzene         1.0         U         1.0         0.092         1         NA         5/26/10 20:10         202273           2-Huanone (MEK)         5.0         U         5.0         0.51         1         NA         5/26/10 20:10         202273           2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10 20:10         202273           2-Hexanone         1.0         U         1.0         0.988         1         NA         5/26/1   | 1,2,3-Trichlorobenzene       | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:10 | 2            | 202273 |      |
| (DBCP)         1.0         U         1.0         0.14         1         NA         5/26/10 20:10         202273           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         5/26/10 20:10         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.089         1         NA         5/26/10 20:10         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.015         1         NA         5/26/10 20:10         202273           1,3-Dichlorobenzene         1.0         U         1.0         0.092         1         NA         5/26/10 20:10         202273           2-Butanone (MEK)         5.0         U         5.0         0.75         1         NA         5/26/10 20:10         202273           2-Hexanone         5.0         U         5.0         0.56         1         NA         5/26/10 20:10         202273           2-Hexanone         1.0         U         1.0         0.098         1         NA         5/26/10 20:10         202273           Acctone         2.3         BJ         5.0         0.69         1         NA         5/26/10 20:10         202273 <td></td> <td>1.0 U</td> <td>1.0</td> <td>0.13</td> <td>1</td> <td>NA</td> <td>5/26/10 20:10</td> <td>2</td> <td>02273</td> <td></td> |                              | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $   | (DBCP)                       |          |     |       | 1        |           |               |              | 02273  |      |
| 1,2-Dichlorobenzene       1.0 U       1.0 U       1.0 0.089       1       NA       5/26/10 20:10       202273         1,2-Dichloropropane       1.0 U       1.0 0.15       1       NA       5/26/10 20:10       202273         1,3-Dichlorobenzene       1.0 U       1.0 0.092       1       NA       5/26/10 20:10       202273         1,4-Dichlorobenzene       1.0 U       1.0 0.085       1       NA       5/26/10 20:10       202273         2-Butanone (MEK)       5.0 U       5.0 U       0.75       1       NA       5/26/10 20:10       202273         2-Hexanone       5.0 U       5.0 0.056       1       NA       5/26/10 20:10       202273         Acetone       2.3 BJ       5.0 0.69       1       NA       5/26/10 20:10       202273         Benzene       1.0 U       1.0 0.098       1       NA       5/26/10 20:10       202273         Bromochloromethane       1.0 U       1.0 0.18       1       NA       5/26/10 20:10       202273         Bromochloromethane       1.0 U       1.0 0.12       1       NA       5/26/10 20:10       202273         Bromochloromethane       1.0 U       1.0 0.12       1       NA       5/26/10 20:10       202273   | 1,2-Dibromoethane            | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| 1,2-Dichloropropane       1.0       U       1.0       0.15       1       NA       5/26/10       20:10       202273         1,3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10       20:10       202273         1,4-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10       20:10       202273         2-Butanone (MEK)       5.0       U       5.0       0.75       1       NA       5/26/10       20:10       202273         2-Hexanone       5.0       U       5.0       0.51       1       NA       5/26/10       20:10       202273         4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/26/10       20:10       202273         Acetone       2.3       BJ       5.0       0.69       1       NA       5/26/10       20:10       202273         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/26/10       20:10       202273         Bromoform       1.0       U       1.0       0.14       1       NA       5/26/10       20:10       202273     <   | F                            |          | 1.0 | 0.057 | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| 1.3-Dichlorobenzene1.0U1.00.0921NA $5/26/10$ 20:102022731.4-Dichlorobenzene1.0U1.00.0851NA $5/26/10$ 20:102022732-Butanone (MEK)5.0U5.00.751NA $5/26/10$ 20:102022732-Hexanone5.0U5.00.511NA $5/26/10$ 20:102022734-Methyl-2-pentanone5.0U5.00.561NA $5/26/10$ 20:10202273Acetone2.3BJ5.00.691NA $5/26/10$ 20:10202273Benzene1.0U1.00.0981NA $5/26/10$ 20:10202273Bromochloromethane1.0U1.00.181NA $5/26/10$ 20:10202273Bromoform1.0U1.00.141NA $5/26/10$ 20:10202273Bromoform1.0U1.00.141NA $5/26/10$ 20:10202273Carbon Disulfide1.0U1.00.121NA $5/26/10$ 20:10202273Chlorobenzene1.0U1.00.121NA $5/26/10$ 20:10202273Carbon Disulfide1.0U1.00.121NA $5/26/10$ 20:10202273Chlorobenzene1.0U1.00.121NA $5/26/10$ 20:10 <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>5/26/10 20:10</td> <td>2</td> <td>02273</td> <td></td>  |                              |          |     |       | 1        |           | 5/26/10 20:10 | 2            | 02273  |      |
| 1.4-Dichlorobenzene1.0U1.00.0851NA $5/26/10$ $20:10$ $202273$ 2-Butanone (MEK)5.0U5.00.751NA $5/26/10$ $20:10$ $202273$ 2-Hexanone5.0U5.00.511NA $5/26/10$ $20:10$ $202273$ 4-Methyl-2-pentanone5.0U5.00.561NA $5/26/10$ $20:273$ Acetone2.3BJ5.00.691NA $5/26/10$ $20:273$ Benzene1.0U1.00.0981NA $5/26/10$ $20:273$ Bromochloromethane1.0U1.00.181NA $5/26/10$ $20:273$ Bromodichloromethane1.0U1.00.151NA $5/26/10$ $20:273$ Bromodirhoromethane1.0U1.00.141NA $5/26/10$ $20:273$ Bromoform1.0U1.00.141NA $5/26/10$ $20:273$ Bromoform1.0U1.00.121NA $5/26/10$ $20:273$ Carbon Disulfide1.0U1.00.121NA $5/26/10$ $20:273$ Chlorobenzene1.0U1.00.121NA $5/26/10$ $20:273$ Chlorobenzene1.0U1.00.141NA $5/26/10$ $20:273$ Chlorobenzene1.0U1.00.121NA <t< td=""><td>1,2-Dichloropropane</td><td>1.0 U</td><td>1.0</td><td>0.15</td><td>1</td><td>NA</td><td>5/26/10 20:10</td><td>2</td><td>02273</td><td></td></t<>   | 1,2-Dichloropropane          | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 1,3-Dichlorobenzene          | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  |                              |          |     |       | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| 4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/26/10 20:10       202273         Acetone       2.3       BJ       5.0       0.69       1       NA       5/26/10 20:10       202273         Benzene       1.0       U       1.0       0.098       1       NA       5/26/10 20:10       202273         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/26/10 20:10       202273         Bromochloromethane       1.0       U       1.0       0.15       1       NA       5/26/10 20:10       202273         Bromoform       1.0       U       1.0       0.15       1       NA       5/26/10 20:10       202273         Bromoform       1.0       U       1.0       0.14       1       NA       5/26/10 20:10       202273         Bromomethane       1.0       U       1.0       0.16       1       NA       5/26/10 20:10       202273         Carbon Tetrachloride       1.0       U       1.0       0.12       1       NA       5/26/10 20:10       202273         Chlorobenzene       1.0       U       1.0       0.14       1       NA   | 2-Butanone (MEK)             | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/26/10 20:10 | 2            | .02273 |      |
| Acetone         2.3         BJ         5.0         0.69         1         NA         5/26/10 20:10         202273           Benzene         1.0         U         1.0         0.098         1         NA         5/26/10 20:10         202273           Bromochloromethane         1.0         U         1.0         0.18         1         NA         5/26/10 20:10         202273           Bromochloromethane         1.0         U         1.0         0.15         1         NA         5/26/10 20:10         202273           Bromodichloromethane         1.0         U         1.0         0.14         1         NA         5/26/10 20:10         202273           Bromoform         1.0         U         1.0         0.14         1         NA         5/26/10 20:10         202273           Carbon Disulfide         1.0         U         1.0         0.12         1         NA         5/26/10 20:10         202273           Chlorobenzene         1.0         U         1.0         0.12         1         NA         5/26/10 20:10         202273           Chlorobenzene         1.0         U         1.0         0.12         1         NA         5/26/10 20:10         202273     <  |                              |          |     |       | 1        |           |               |              |        |      |
| Benzene1.0U1.00.0981NA $5/26/10$ 20:10202273Bromochloromethane1.0U1.00.181NA $5/26/10$ 20:10202273Bromodichloromethane1.0U1.00.151NA $5/26/10$ 20:10202273Bromodichloromethane1.0U1.00.141NA $5/26/10$ 20:10202273Bromoform1.0U1.00.141NA $5/26/10$ 20:10202273Bromomethane1.0U1.00.121NA $5/26/10$ 20:10202273Carbon Disulfide1.0U1.00.161NA $5/26/10$ 20:10202273Carbon Tetrachloride1.0U1.00.121NA $5/26/10$ 20:10202273Chlorobenzene1.0U1.00.141NA $5/26/10$ 20:10202273Chloroform1.0U1.00.151NA $5/26/10$ 20:10202273Chloroform1.0U1.00.151NA $5/26/10$ 20:10202273Chloroform1.0U1.00.151NA $5/26/10$ 20:10202273Chloromethane1.0U1.00.121NA $5/26/10$ 20:10202273Chloroform1.0U1.00.151NA $5/26/10$ 20:10202273cis-1,3-Dichloropropene1.0U1.00.0791   |                              |          |     |       |          |           |               |              |        |      |
| Bromochloromethane1.0U1.00.181NA5/26/10 20:10202273Bromodichloromethane1.0U1.00.151NA5/26/10 20:10202273Bromoform1.0U1.00.141NA5/26/10 20:10202273Bromomethane1.0U1.00.121NA5/26/10 20:10202273Carbon Disulfide1.0U1.00.161NA5/26/10 20:10202273Carbon Tetrachloride1.0U1.00.121NA5/26/10 20:10202273Carbon Tetrachloride1.0U1.00.121NA5/26/10 20:10202273Chlorobenzene1.0U1.00.141NA5/26/10 20:10202273Chloroform1.0U1.00.151NA5/26/10 20:10202273Chloroform1.0U1.00.151NA5/26/10 20:10202273Chloroform1.0U1.00.151NA5/26/10 20:10202273cis-1,2-Dichloroethene1.0U1.00.111NA5/26/10 20:10202273cis-1,3-Dichloropropene1.0U1.00.0791NA5/26/10 20:10202273Dibromochloromethane1.0U1.00.131NA5/26/10 20:10202273  | Acetone                      | 2.3 BJ   | 5.0 | 0.69  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| Bromodichloromethane1.0U1.00.151NA $5/26/10$ $202273$ Bromoform1.0U1.00.141NA $5/26/10$ $202273$ Bromomethane1.0U1.00.121NA $5/26/10$ $202273$ Carbon Disulfide1.0U1.00.161NA $5/26/10$ $202273$ Carbon Tetrachloride1.0U1.00.121NA $5/26/10$ $202273$ Carbon Tetrachloride1.0U1.00.121NA $5/26/10$ $202273$ Chlorobenzene1.0U1.00.141NA $5/26/10$ $202273$ Chloroform1.0U1.00.211NA $5/26/10$ $202273$ Chloroform1.0U1.00.151NA $5/26/10$ $202273$ Chloroform1.0U1.00.121NA $5/26/10$ $202273$ Chloroform1.0U1.00.121NA $5/26/10$ $202273$ Chloroformethane1.0U1.00.111NA $5/26/10$ $202273$ cis-1,2-Dichloroptopene1.0U1.00.0791NA $5/26/10$ $202273$ Dibromochloromethane1.0U1.00.131NA $5/26/10$ $202273$   |                              |          |     |       |          |           |               |              |        |      |
| Bromoform         1.0         U         1.0         0.14         1         NA         5/26/10 20:10         202273           Bromomethane         1.0         U         1.0         0.12         1         NA         5/26/10 20:10         202273           Carbon Disulfide         1.0         U         1.0         0.16         1         NA         5/26/10 20:10         202273           Carbon Tetrachloride         1.0         U         1.0         0.12         1         NA         5/26/10 20:10         202273           Chlorobenzene         1.0         U         1.0         0.12         1         NA         5/26/10 20:10         202273           Chlorobenzene         1.0         U         1.0         0.14         1         NA         5/26/10 20:10         202273           Chloroethane         1.0         U         1.0         0.21         1         NA         5/26/10 20:10         202273           Chloroform         1.0         U         1.0         0.15         1         NA         5/26/10 20:10         202273           Chloromethane         1.0         U         1.0         0.11         1         NA         5/26/10 20:10         202273   |                              |          |     |       |          |           |               |              |        |      |
| Bromomethane1.0U1.00.121NA $5/26/10$ $202273$ Carbon Disulfide1.0U1.00.161NA $5/26/10$ $202273$ Carbon Tetrachloride1.0U1.00.121NA $5/26/10$ $202273$ Chlorobenzene1.0U1.00.141NA $5/26/10$ $202273$ Chloroethane1.0U1.00.211NA $5/26/10$ $202273$ Chloroethane1.0U1.00.211NA $5/26/10$ $202273$ Chloroform1.0U1.00.151NA $5/26/10$ $202273$ Chloromethane1.0U1.00.121NA $5/26/10$ $202273$ cis-1,2-Dichloroethene1.0U1.00.111NA $5/26/10$ $202273$ cis-1,3-Dichloropropene1.0U1.00.0791NA $5/26/10$ $202273$ Dibromochloromethane1.0U1.00.131NA $5/26/10$ $202273$   | Bromodichloromethane         | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$   |                              |          |     |       | 1        |           |               |              |        |      |
| Carbon Tetrachloride1.0U1.00.121NA $5/26/10$ 20:10202273Chlorobenzene1.0U1.00.141NA $5/26/10$ 20:10202273Chloroethane1.0U1.00.211NA $5/26/10$ 20:10202273Chloroform1.0U1.00.151NA $5/26/10$ 20:10202273Chloroform1.0U1.00.151NA $5/26/10$ 20:10202273Chloromethane1.0U1.00.121NA $5/26/10$ 20:10202273cis-1,2-Dichloroethene1.0U1.00.111NA $5/26/10$ 20:10202273cis-1,3-Dichloropropene1.0U1.00.0791NA $5/26/10$ 20:10202273Dibromochloromethane1.0U1.00.131NA $5/26/10$ 20:10202273  |                              |          |     |       |          |           |               |              |        |      |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | Carbon Disulfide             | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| Chloroethane1.0 U1.0 0.211NA5/26/10 20:10202273Chloroform1.0 U1.0 0.151NA5/26/10 20:10202273Chloromethane1.0 U1.0 0.121NA5/26/10 20:10202273cis-1,2-Dichloroethene1.0 U1.0 0.111NA5/26/10 20:10202273cis-1,3-Dichloropropene1.0 U1.0 0.0791NA5/26/10 20:10202273Dibromochloromethane1.0 U1.0 0.131NA5/26/10 20:10202273   |                              |          |     |       | 1        |           |               |              | .02273 |      |
| Chloroform1.0U1.00.151NA5/26/10202273Chloromethane1.0U1.00.121NA5/26/102010202273cis-1,2-Dichloroethene1.0U1.00.111NA5/26/102010202273cis-1,3-Dichloropropene1.0U1.00.0791NA5/26/102010202273Dibromochloromethane1.0U1.00.131NA5/26/102010202273  |                              |          |     |       |          |           |               |              | .02273 |      |
| Chloromethane         1.0         U         1.0         0.12         1         NA         5/26/10 20:10         202273           cis-1,2-Dichloroethene         1.0         U         1.0         0.11         1         NA         5/26/10 20:10         202273           cis-1,3-Dichloropropene         1.0         U         1.0         0.079         1         NA         5/26/10 20:10         202273           Dibromochloromethane         1.0         U         1.0         0.13         1         NA         5/26/10 20:10         202273  | Chloroethane                 | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
| cis-1,2-Dichloroethene1.0U1.00.111NA5/26/10 20:10202273cis-1,3-Dichloropropene1.0U1.00.0791NA5/26/10 20:10202273Dibromochloromethane1.0U1.00.131NA5/26/10 20:10202273   |                              |          |     |       | 1        |           |               |              | 02273  |      |
| cis-1,3-Dichloropropene1.0 U1.00.0791NA5/26/10 20:10202273Dibromochloromethane1.0 U1.00.131NA5/26/10 20:10202273  |                              |          |     |       |          |           |               |              | 02273  |      |
| Dibromochloromethane 1.0 U 1.0 0.13 1 NA 5/26/10 20:10 202273   | cis-1,2-Dichloroethene       | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
|   |                              |          |     |       | 1        |           | 5/26/10 20:10 | 2            | 02273  |      |
| Ethylbenzene 1.0 U 1.0 0.13 1 NA 5/26/10 20:10 202273   |                              |          |     |       | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |
|   | Ethylbenzene                 | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:10 | 2            | 02273  |      |

#### Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10   |
| Sample Matrix: | Water                                     | Date Received: 5/20/10    |
| Sample Name:   | TRIP BLANK                                | Units: µg/L               |
| Lab Code:      | R1002703-008                              | Basis: NA                 |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | 8    |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| Toluene                                 | 0.13 J   | 1.0 | 0.098 | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:10 | )          | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed ( | Q | Note |  |
|----------------------|------|-------------------|--------------------|---|------|--|
| 4-Bromofluorobenzene | 92   | 80-120            | 5/26/10 20:10      |   |      |  |



Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastr<br>GE MRFA/138165<br>Water | ructure, Inc. |   | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |
|---------------------------------------|--|---------------|---|---|--------------------|
|                                       |  | •             | fied Compounds (TIC)<br>Organic Compounds by GC/N | AS  |                    |
| Sample Name:<br>Lab Code:             | TRIP BLANK<br>R1002703-008                               |               |   | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1  |               |   |   |                    |
| CAS # Anal                            | yte Name   | RT            | Result Q  |   |                    |

No Tentatively Identified Compounds Detected.



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Service Request:R1002703Project:GE MRFA/138165Date Collected:5/20/10Sample Matrix:WaterDate Received:5/20/10Sample Name:COOLER BLANKUnits:µg/LLab Code:R1002703-009Basis:NA

#### Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|                              |          |     |       | Dilution | Date      | Date          | Extraction Analysis |
|------------------------------|----------|-----|-------|----------|-----------|---------------|---------------------|
| Analyte Name                 | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot No          |
| 1,1,1-Trichloroethane (TCA)  | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,1,2,2-Tetrachloroethane    | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,1,2-Trichloroethane        | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,2,3-Trichlorobenzene       | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,2,4-Trichlorobenzene       | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,2-Dibromo-3-chloropropane  | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/27/10 18:45 | 202478              |
| (DBCP)                       | 10.11    |     |       | _        |           |               |                     |
| 1,2-Dibromoethane            | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,2-Dichloroethane           | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/27/10 18:45 |                     |
| 1,2-Dichlorobenzene          | 1.0 U    | 1.0 | 0,089 | 1        | NA        | 5/27/10 18:45 |                     |
| 1,2-Dichloropropane          | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,3-Dichlorobenzene          | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/27/10 18:45 | 202478              |
| 1,4-Dichlorobenzene          | 1.0 U    | 1.0 | 0.085 | 1        | NA        | 5/27/10 18:45 | 202478              |
| 2-Butanone (MEK)             | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 2-Hexanone                   | 5.0 U    | 5.0 | 0.51  | 1        | NA        | 5/27/10 18:45 | 202478              |
| 4-Methyl-2-pentanone         | 5.0 U    | 5.0 | 0.56  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Acetone                      | 5.0 U    | 5.0 | 0,69  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Benzene                      | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/27/10 18:45 | 202478              |
| Bromochloromethane           | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Bromodichloromethane         | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Bromoform                    | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Bromomethane                 | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Carbon Disulfide             | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Carbon Tetrachloride         | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Chlorobenzene                | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Chloroethane                 | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Chloroform                   | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Chloromethane                | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:45 | 202478              |
| cis-1,2-Dichloroethene       | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:45 | 202478              |
| cis-1,3-Dichloropropene      | 1.0 U    | 1.0 | 0.079 | 1        | NA        | 5/27/10 18:45 | 202478              |
| Dibromochloromethane         | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/27/10 18:45 | 202478              |
| Ethylbenzene                 | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/27/10 18:45 | 202478              |



#### Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/20/10   |
| Sample Matrix: | Water                                     | Date Received: 5/20/10    |
| Sample Name:   | COOLER BLANK                              | Units: μg/L               |
| Lab Code:      | R1002703-009                              | Basis: NA                 |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|   |        |   |     |       | Dilution | Date      | Date          | Extraction | Analysi: | 5    |
|---|--------|---|-----|-------|----------|-----------|---------------|------------|----------|------|
| Analyte Name                            | Result | Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot      | Note |
| Hexachlorobutadiene                     | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 |            | 202478   |      |
| m,p-Xylenes                             | 1.0    | U | 1.0 | 0.22  | 1        | NA        | 5/27/10 18:45 | i          | 202478   |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | 5          | 202478   |      |
| o-Xylene                                | 1.0    | U | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:45 | j          | 202478   |      |
| Styrene                                 | 1.0    | U | 1.0 | 0.096 | 1        | NA        | 5/27/10 18:45 | 5          | 202478   |      |
| Tetrachloroethene (PCE)                 | 1.0    | U | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:45 | 5          | 202478   |      |
| Toluene                                 | 1.0    | U | 1.0 | 0.098 | 1        | NA        | 5/27/10 18:45 | ;          | 202478   |      |
| trans-1,2-Dichloroethene                | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | ;          | 202478   |      |
| trans-1,3-Dichloropropene               | 1.0    | U | 1.0 | 0.060 | 1        | NA        | 5/27/10 18:45 | 5          | 202478   |      |
| Trichloroethene (TCE)                   | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | 5          | 202478   |      |
| Trichlorofluoromethane (CFC 11)         | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 | ĩ          | 202478   |      |
| Vinyl Chloride                          | 1.0    | U | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | i          | 202478   |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |
|----------------------|------|-------------------|------------------|---|------|
| 4-Bromofluorobenzene | 96   | 80-120            | 5/27/10 18:45    |   |      |



Analytical Report

| Client:<br>Project:<br>Sample Matrix:   | Shaw Environmental & Infrastru<br>GE MRFA/138165<br>Water | cture, Inc. |     | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/20/10 |  |  |  |  |  |
|---|---|-------------|-----|---|--------------------|--|--|--|--|--|
| Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |   |             |     |   |                    |  |  |  |  |  |
| Sample Name:<br>Lab Code:   | COOLER BLANK<br>R1002703-009                              |             |     | Units:<br>Basis:  |                    |  |  |  |  |  |
| Analytical Method:  | CLP-VOA OLC02.1   |             |     |   |                    |  |  |  |  |  |
| CAS # Anal  | yte Name  | RT Resu     | t Q |   |                    |  |  |  |  |  |
| No Tentatively Identified Compounds Detected.   |   |             |     |   |                    |  |  |  |  |  |



Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: | 5/20/10 0850 |
|----------------|---|------------------|--------------|
| Project:       | GE MRFA/138165                            | Date Collected:  |              |
| Sample Matrix: | Water                                     | Date Received:   |              |
| Sample Name:   | 14D                                       | Units:           |              |
| Lab Code:      | R1002703-010                              | Basis:           |              |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| 1,1,1-Trichloroethane (TCA)           | Result Q | MRL | A CTAT |        |           |               | <b>Extraction Analysis</b> |      |
|---------------------------------------|----------|-----|--------|--------|-----------|---------------|----------------------------|------|
|                                       |          |     | MDL    | Factor | Extracted | Analyzed      | Lot Lot                    | Note |
|                                       | 1.0 U    | 1.0 | 0.14   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    | 1.0 | 0.12   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,1,2-Trichloroethane                 | 1.0 U    | 1.0 | 0.11   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | 1.0 | 0.11   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U    | 1.0 | 0.17   | 1      | NA        | 5/26/10 20:46 |                            |      |
| 1,2,3-Trichlorobenzene                | 1.0 U    | 1.0 | 0.18   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,2,4-Trichlorobenzene                | 1.0 U    | 1.0 | 0.13   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    | 1.0 | 0.34   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,2-Dibromoethane                     | 1.0 U    | 1.0 | 0.14   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,2-Dichloroethane                    | 1.0 U    | 1.0 | 0.057  | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,2-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.089  | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,2-Dichloropropane                   | 1.0 U    | 1.0 | 0.15   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,3-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.092  | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 1,4-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.085  | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 2-Butanone (MEK)                      | 5.0 U    | 5.0 | 0.75   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 2-Hexanone                            | 5.0 U    | 5.0 | 0.51   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| 4-Methyl-2-pentanone                  | 5.0 U    | 5.0 | 0.56   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| Acetone                               | 5.0 U    | 5.0 | 0.69   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| Benzene                               | 1.0 U    | 1.0 | 0.098  | 1      | NA        | 5/26/10 20:46 |                            |      |
| Bromochloromethane                    | 1.0 U    | 1.0 | 0.18   | 1      | NA        | 5/26/10 20:46 |                            |      |
| Bromodichloromethane                  | 1.0 U    | 1.0 | 0.15   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| Bromoform                             | 1.0 U    | 1.0 | 0.14   | 1      | NA        | 5/26/10 20:46 |                            |      |
| Bromomethane                          | 1.0 U    | 1.0 | 0.12   | 1      | NA        | 5/26/10 20:46 |                            |      |
| Carbon Disulfide                      | 1.0 U    | 1.0 | 0.16   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| Carbon Tetrachloride                  | 1.0 U    | 1.0 | 0.12   | 1      | NA        | 5/26/10 20:46 |                            |      |
| Chlorobenzene                         | 1.0 U    | 1.0 | 0.14   | 1      | NA        | 5/26/10 20:46 |                            |      |
| Chloroethane                          | 1.0 U    | 1.0 | 0.21   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| Chloroform                            | 1.0 U    | 1.0 | 0.15   | 1      | NA        | 5/26/10 20:46 |                            |      |
| Chloromethane                         | 1.0 U    | 1.0 | 0.12   | 1      | NA        | 5/26/10 20:46 |                            |      |
| cis-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.11   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |
| cis-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.079  | 1      | NA        | 5/26/10 20:46 |                            |      |
| Dibromochloromethane                  | 1.0 U    | 1.0 | 0.13   | 1      | NA        | 5/26/10 20:46 |                            |      |
| Ethylbenzene                          | 1.0 U    | 1.0 | 0.13   | 1      | NA        | 5/26/10 20:46 | 202273                     |      |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/20/10 0850 |
| Sample Matrix: | Water                                     | Date Received: 5/21/10       |
| Sample Name:   | 14D                                       | Units: µg/L                  |
| Lab Code:      | R1002703-010                              | Basis: NA                    |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                                      |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | s    |
|--------------------------------------|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                         | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                  | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| m,p-Xylenes                          | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Dichloromethane (Methylene Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| o-Xylene                             | 1.0 U    | 1.0 | 0,11  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Styrene                              | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Tetrachloroethene (PCE)              | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Toluene                              | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| trans-1,2-Dichloroethene             | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:46 | õ          | 202273  |      |
| trans-1,3-Dichloropropene            | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Trichloroethene (TCE)                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Trichlorofluoromethane (CFC 11)      | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Vinyl Chloride                       | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |

| Summer de Name       | 0/ <b>D</b> | Control | Date          | 0 | N-4- |
|----------------------|-------------|---------|---------------|---|------|
| Surrogate Name       | %Rec        | Limits  | Analyzed      | Q | Note |
| 4-Bromofluorobenzene | 94          | 80-120  | 5/26/10 20:46 |   |      |



Analytical Report

| Client:<br>Project:<br>Sample Matrix:         | Shaw Environmental & Infrasti<br>GE MRFA/138165<br>Water | ructure, Inc. |        |                                    | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/21/10 |  |
|---|--|---------------|--------|------------------------------------|---|--------------------|--|
|   |  |               |        | pounds (TIC)<br>Compounds by GC/MS |   |                    |  |
| Sample Name:<br>Lab Code:                     | 14D<br>R1002703-010                                      |               |        |                                    | Units:<br>Basis:  |                    |  |
| Analytical Method:                            | CLP-VOA OLC02.1  |               |        |                                    |   |                    |  |
| CAS # Anal                                    | yte Name   | RT            | Result | Q                                  |   |                    |  |
| No Tentatively Identified Compounds Detected. |  |               |        |                                    |   |                    |  |



#### Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: | 5/20/10 0920 |
|----------------|---|------------------|--------------|
| Project:       | GE MRFA/138165                            | Date Collected:  |              |
| Sample Matrix: | Water                                     | Date Received:   |              |
| Sample Name:   | 11D                                       | Units:           |              |
| Lab Code:      | R1002703-011                              | Basis:           |              |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                              |        |    |     |       | Dilution | Date      | Date          | Extraction Analysis |
|------------------------------|--------|----|-----|-------|----------|-----------|---------------|---------------------|
| Analyte Name                 | Result | Q  | MRL | MDL   | Factor   | Extracted |               | Lot Lot Not         |
| 1,1,1-Trichloroethane (TCA)  | 1.0    | U  | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,1,2,2-Tetrachloroethane    | 1.0    | U  | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,1,2-Trichloroethane        | 1.0    | U  | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,1-Dichloroethane (1,1-DCA) | 1.0    |    | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,1-Dichloroethene (1,1-DCE) | 1.0    |    | 1.0 | 0.17  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,2,3-Trichlorobenzene       | 1.0    | U  | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,2,4-Trichlorobenzene       | 1.0    | U  | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,2-Dibromo-3-chloropropane  | 1.0    | U  | 1.0 | 0.34  | 1        | NA        | 5/26/10 21:23 | 202273              |
| (DBCP)<br>1,2-Dibromoethane  | 1.0    | U  | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,2-Dichloroethane           | 1.0    | U  | 1.0 | 0.057 | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,2-Dichlorobenzene          | 1.0    | υ  | 1.0 | 0.089 | 1        | NA        | 5/26/10 21:23 |                     |
| 1,2-Dichloropropane          | 1.0    | U  | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,3-Dichlorobenzene          | 1.0    | U  | 1.0 | 0.092 | 1        | NA        | 5/26/10 21:23 | 202273              |
| 1,4-Dichlorobenzene          | 1.0    |    | 1.0 | 0.085 | 1        | NA        | 5/26/10 21:23 | 202273              |
| 2-Butanone (MEK)             | 5.0    | U  | 5.0 | 0.75  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 2-Hexanone                   | 5.0    |    | 5,0 | 0.51  | 1        | NA        | 5/26/10 21:23 | 202273              |
| 4-Methyl-2-pentanone         | 5.0    |    | 5.0 | 0.56  | 1        | NA        | 5/26/10 21:23 |                     |
| Acetone                      | 0.73   | BJ | 5.0 | 0.69  | 1        | NA        | 5/26/10 21:23 | 202273              |
| Benzene                      | 1.0    |    | 1.0 | 0.098 | 1        | NA        | 5/26/10 21:23 | 202273              |
| Bromochloromethane           | 1.0    |    | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 |                     |
| Bromodichloromethane         | 1.0    | U  | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 | 202273              |
| Bromoform                    | 1.0    |    | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 |                     |
| Bromomethane                 | 1.0    |    | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 |                     |
| Carbon Disulfide             | 1.0    | U  | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 202273              |
| Carbon Tetrachloride         | 11     |    | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 |                     |
| Chlorobenzene                | 1.0    |    | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 |                     |
| Chloroethane                 | 1.0    | U  | 1.0 | 0.21  | 1        | NA        | 5/26/10 21:23 | 202273              |
| Chloroform                   | 1.3    |    | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 |                     |
| Chloromethane                | 1.0    |    | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 |                     |
| cis-1,2-Dichloroethene       | · 1.0  | U  | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 | 202273              |
| cis-1,3-Dichloropropene      | 1.0    |    | 1.0 | 0.079 | 1        | NA        | 5/26/10 21:23 |                     |
| Dibromochloromethane         | 1.0    |    | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:23 |                     |
| Ethylbenzene                 | 1.0    | U  | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:23 | 202273              |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/20/10 0920 |
| Sample Matrix: | Water                                     | Date Received: 5/21/10       |
| Sample Name:   | 11D                                       | Units: µg/L                  |
| Lab Code:      | R1002703-011                              | Basis: NA                    |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction A | Analysi | S    |
|---|----------|-----|-------|----------|-----------|---------------|--------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot          | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 | }            | 202273  |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 21:23 | <b>;</b>     | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 3            | 202273  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 | ;;           | 202273  |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 21:23 | 5            | 202273  |      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 | 3            | 202273  |      |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 21:23 | <b>;</b>     | 202273  |      |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 3            | 202273  |      |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 21:23 | <b>;</b>     | 202273  |      |
| Trichloroethene (TCE)                   | 1.5      | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 3            | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 | <b>i</b> :   | 202273  |      |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 | <b>;</b>     | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |  |
|----------------------|------|-------------------|------------------|---|------|--|
| 4-Bromofluorobenzene | 91   | 80-120            | 5/26/10 21:23    |   |      |  |



Analytical Report

|                                       |  | ,                 | F         |                    |   |                    |
|---------------------------------------|--|-------------------|-----------|--------------------|---|--------------------|
| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infr<br>GE MRFA/138165<br>Water | rastructure, Inc. |           |                    | Service Request:<br>Date Collected:<br>Date Received: | 5/20/10<br>5/21/10 |
|                                       | Ter  | stationales Idant | Find Com  | anoundo (TIC)      | Date Analyzed:  | 5/20/10 2125       |
|                                       |  |                   |           | npounds (TIC)      |   |                    |
|                                       | Low Level V  | water Volatile    | Organic   | Compounds by GC/MS |   |                    |
| Sample Name:                          | 11D  |                   |           |                    | Units:  | ug/L               |
| Lab Code:                             | R1002703-011   |                   |           |                    | Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1                                      |                   |           |                    |   |                    |
| CAS # Anal                            | yte Name   | RT                | Result    | Q                  |   |                    |
|                                       | No Tentatively Identifi                              | ed Compounds I    | Detected. |                    |   |                    |



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Service Request:R1002703Project:GE MRFA/138165Date Collected:5/20/10 1010Sample Matrix:WaterDate Received:5/21/10Sample Name:DGC-4SUnits:µg/LLab Code:R1002703-012Basis:NA

#### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| 1,1-Dickloroethene (1,1-DCE)       1.0       U       1.0       0.17       1       NA       5/26/10 21:59       202273         1,2,3-Trichlorobenzene       1.0       U       1.0       0.18       1       NA       5/26/10 21:59       202273         1,2,4-Trichlorobenzene       1.0       U       1.0       0.13       1       NA       5/26/10 21:59       202273         (DBCP)       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         (DBCP)       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         1,2-Dichloroethane       1.0       U       1.0       0.057       1       NA       5/26/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/26/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.052       1       NA       5/26/10 21:59       202273         1,3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10 21:59       202273         2-Hexanone       5.0       U       5.0       0.51 <th></th> <th></th> <th></th> <th></th> <th>Dilution</th> <th>Date</th> <th>Date</th> <th>Extraction Analysis</th> <th></th>   |                              |          |     |       | Dilution | Date      | Date          | Extraction Analysis |      |
|---|------------------------------|----------|-----|-------|----------|-----------|---------------|---------------------|------|
| 1,1,2,2-Tetrachloroethane       1.0       U       1.0       0.12       1       NA       5/26/10 21:59       202273         1,1,2-Trichloroethane       1,1-Dichloroethane       1,0       0.11       1       NA       5/26/10 21:59       202273         1,2,3-Trichloroethane       1.0       U       1.0       0.13       1       NA       5/26/10 21:59       202273         1,2-Dichloroethane       1.0       U       1.0       0.34       1       NA       5/26/10 21:59       202273         1,2-Dichloroethane       1.0       U       1.0       0.34       1       NA       5/26/10 21:59       202273         1,2-Dichloroethane       1.0       U       1.0       0.057       1       NA       5/26/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10 21:59       202273         1,3-Dichlorobenzene       1.0       U       0.0085       1<  | Analyte Name                 | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot N           | lote |
| 1,1,2-Trichloroethane       1.0       U       1.0       0.11       1       NA       5/26/10 21:59       202273         1,1-Dichloroethane (1,1-DCE)       1.0       U       1.0       0.17       1       NA       5/26/10 21:59       202273         1,2,3-Trichlorobenzene       1.0       U       1.0       0.17       1       NA       5/26/10 21:59       202273         1,2,4-Trichlorobenzene       1.0       U       1.0       0.13       1       NA       5/26/10 21:59       202273         1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.34       1       NA       5/26/10 21:59       202273         1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.44       1       NA       5/26/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/26/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.089       1       NA       5/26/10 21:59       202273         1,3-Dichlorobenzene       1.0       U       1.0       0.082       1       NA       5/26/10 21:59       202273         1,4-Dichlorobenzene       1.0  | 1,1,1-Trichloroethane (TCA)  | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1.1-Dichlorocthane (1,1-DCA)         1.0         U         1.0         0.11         1         NA         5/26/10 21:59         202273           1,2.3-Trichlorobenzene         1.0         U         1.0         0.17         1         NA         5/26/10 21:59         202273           1,2.3-Trichlorobenzene         1.0         U         1.0         0.18         1         NA         5/26/10 21:59         202273           1,2.4-Trichlorobenzene         1.0         U         1.0         0.13         1         NA         5/26/10 21:59         202273           1,2-Dibromo-3-chloropropane         1.0         U         1.0         0.34         1         NA         5/26/10 21:59         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.057         1         NA         5/26/10 21:59         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.092         1         NA         5/26/10 21:59         202273           1,3-Dichlorobenzene         1.0         U         1.0         0.092         1         NA         5/26/10 21:59         202273           1,4-Dichlorobenzene         1.0         U         0         0.951         1  |                              |          |     | 0.12  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1,1-Dickloroethene (1,1-DCE)       1.0       U       1.0       0.17       1       NA       \$726/10 21:59       202273         1,2,3-Tricklorobenzene       1.0       U       1.0       0.18       1       NA       \$726/10 21:59       202273         1,2,4-Tricklorobenzene       1.0       U       1.0       0.13       1       NA       \$726/10 21:59       202273         1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.14       1       NA       \$726/10 21:59       202273         1,2-Dibromoethane       1.0       U       1.0       0.057       1       NA       \$726/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       \$726/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       \$726/10 21:59       202273         1,4-Dichlorobenzene       1.0       U       1.0       0.052       1       NA       \$726/10 21:59       202273         2-Butanone (MEK)       5.0       U       5.0       0.51       1       NA       \$726/10 21:59       202273         2-Hexanone       5.0       U  | 1,1,2-Trichloroethane        | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1,2,3-Trichlorobenzene       1.0       U       1.0       0.18       1       NA       5/26/10 21:59       202273         1,2,4-Trichlorobenzene       1.0       U       1.0       0.13       1       NA       5/26/10 21:59       202273         1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.34       1       NA       5/26/10 21:59       202273         1,2-Dibromoethane       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         1,2-Dichloroethane       1.0       U       1.0       0.057       1       NA       5/26/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/26/10 21:59       202273         1,3-Dichlorobenzene       1.0       U       1.0       0.052       1       NA       5/26/10 21:59       202273         2-Butanone (MEK)       5.0       U       5.0       0.075       1       NA       5/26/10 21:59       202273         2-Hexanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         2-Hexanone       1.0       U       1.0  | 1,1-Dichloroethane (1,1-DCA) | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1,2,4-Trichlorobenzene         1.0         U         1.0         0.13         1         NA         5/26/10         21:59         202273           1,2-Dibromo-3-chloropropane         1.0         U         1.0         0.34         1         NA         5/26/10         21:59         202273           (DBCP)         1.0         U         1.0         0.14         1         NA         5/26/10         21:59         202273           1,2-Dibromoethane         1.0         U         1.0         0.057         1         NA         5/26/10         21:59         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.057         1         NA         5/26/10         21:59         202273           1,3-Dichlorobenzene         1.0         U         1.0         0.15         1         NA         5/26/10         21:59         202273           1,4-Dichlorobenzene         1.0         U         1.0         0.085         1         NA         5/26/10         21:59         202273           1,4-Dichlorobenzene         1.0         U         1.0         0.085         1         NA         5/26/10         21:59         202273           1,4-Dichlorobenzene <td></td> <td>1.0 U</td> <td>1.0</td> <td>0.17</td> <td>1</td> <td>NA</td> <td>5/26/10 21:59</td> <td>202273</td> <td></td> |                              | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1,2-Dibromo-3-chloropropane       1.0       U       1.0       0.34       1       NA       5/26/10 21:59       202273         (DBCP)       1,2-Dibromoethane       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         1,2-Dichloroethane       1.0       U       1.0       0.057       1       NA       5/26/10 21:59       202273         1,2-Dichlorobenzene       1.0       U       1.0       0.089       1       NA       5/26/10 21:59       202273         1,3-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10 21:59       202273         1,4-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10 21:59       202273         2-Butanone (MEK)       5.0       U       5.0       0.51       1       NA       5/26/10 21:59       202273         2-Hexanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         2-Hexanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         Benzene       1.0       U       1.0   | 1,2,3-Trichlorobenzene       | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| (DBCP)         1.0         U         1.0         0.14         1         NA         5/26/10 21:59         202273           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         5/26/10 21:59         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.089         1         NA         5/26/10 21:59         202273           1,2-Dichlorobenzene         1.0         U         1.0         0.092         1         NA         5/26/10 21:59         202273           1,3-Dichlorobenzene         1.0         U         1.0         0.085         1         NA         5/26/10 21:59         202273           2-Butanone (MEK)         5.0         U         5.0         0.51         1         NA         5/26/10 21:59         202273           2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10 21:59         202273           2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10 21:59         202273           Benzene         1.0         U         1.0         0.69         1         NA         5/26/10 21:59         202273   |                              | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1.2-Dichloroethane1.0U1.00.0571NA $5/26/10$ 21:592022731,2-Dichlorobenzene1.0U1.00.0891NA $5/26/10$ 21:592022731,2-Dichlorobenzene1.0U1.00.0151NA $5/26/10$ 21:592022731,3-Dichlorobenzene1.0U1.00.0921NA $5/26/10$ 21:592022732-Butanone (MEK)5.0U5.00.751NA $5/26/10$ 21:592022732-Hexanone5.0U5.00.511NA $5/26/10$ 21:592022732-Hexanone5.0U5.00.511NA $5/26/10$ 21:592022732-Hexanone5.0U5.00.561NA $5/26/10$ 21:592022732-Hexanone0.94BJ5.00.691NA $5/26/10$ 21:59202273Benzene1.0U1.00.0981NA $5/26/10$ 21:59202273Bromochloromethane1.0U1.00.181NA $5/26/10$ 21:59202273Bromodichloromethane1.0U1.00.141NA $5/26/10$ 21:59202273Carbon Disulfide1.0U1.00.121NA $5/26/10$ 21:59202273Carbon Disulfide1.0U1.00.121NA $5/26/10$ 21:59202273Chloroetnane1.0U1.00.12  | (DBCP)                       | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1,2-Dichlorobenzene       1.0       U       1.0       0.089       1       NA       5/26/10 21:59       202273         1,3-Dichloropropane       1.0       U       1.0       0.15       1       NA       5/26/10 21:59       202273         1,3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10 21:59       202273         1,4-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10 21:59       202273         2-Butanone (MEK)       5.0       U       5.0       0.75       1       NA       5/26/10 21:59       202273         2-Hexanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         Acetone       0.94       BJ       5.0       0.69       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.12   | 1,2-Dibromoethane            | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1,2-Dichloropropane       1.0       U       1.0       0.15       1       NA       5/26/10 21:59       202273         1,3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10 21:59       202273         2-Butanone (MEK)       5.0       U       5.0       0.75       1       NA       5/26/10 21:59       202273         2-Hexanone (MEK)       5.0       U       5.0       0.75       1       NA       5/26/10 21:59       202273         2-Hexanone (MEK)       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         4-Methyl-2-pentanone       5.0       U       5.0       0.69       1       NA       5/26/10 21:59       202273         Benzene       1.0       U       1.0       0.098       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         Carbon Disulfide       1.0       U       1.0       0.12  | 1,2-Dichloroethane           | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1.3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/26/10 21:59       202273         1.4-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10 21:59       202273         2-Butanone (MEK)       5.0       U       5.0       0.75       1       NA       5/26/10 21:59       202273         2-Hexanone       5.0       U       5.0       0.51       1       NA       5/26/10 21:59       202273         4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         Acetone       0.94       BJ       5.0       0.69       1       NA       5/26/10 21:59       202273         Benzene       1.0       U       1.0       0.098       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         Carbon Disulfide       1.0       U       1.0       0.12       1 <td></td> <td>1.0 U</td> <td>1.0</td> <td>0.089</td> <td>1</td> <td>NA</td> <td>5/26/10 21:59</td> <td>202273</td> <td></td>   |                              | 1.0 U    | 1.0 | 0.089 | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 1,4-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/26/10 21:59       202273         2-Butanone (MEK)       5.0       U       5.0       0.75       1       NA       5/26/10 21:59       202273         2-Hexanone       5.0       U       5.0       0.51       1       NA       5/26/10 21:59       202273         4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         Acctone       0.94       BJ       5.0       0.69       1       NA       5/26/10 21:59       202273         Benzene       1.0       U       1.0       0.098       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/26/10 21:59       202273         Bromodichloromethane       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         Bromoform       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         Carbon Disulfide       1.0       U       1.0       0.12       1       <   | 1,2-Dichloropropane          | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 2-Butanone (MEK)         5.0         U         5.0         0.75         1         NA         5/26/10 21:59         202273           2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10 21:59         202273           4-Methyl-2-pentanone         5.0         U         5.0         0.56         1         NA         5/26/10 21:59         202273           Acetone         0.94         BJ         5.0         0.69         1         NA         5/26/10 21:59         202273           Benzene         1.0         U         1.0         0.098         1         NA         5/26/10 21:59         202273           Bromochloromethane         1.0         U         1.0         0.18         1         NA         5/26/10 21:59         202273           Bromodichloromethane         1.0         U         1.0         0.14         1         NA         5/26/10 21:59         202273           Bromoform         1.0         U         1.0         0.12         1         NA         5/26/10 21:59         202273           Carbon Disulfide         1.0         U         1.0         0.12         1         NA         5/26/10 21:59         202273   |                              |          | 1.0 |       | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| 2-Hexanone         5.0         U         5.0         0.51         1         NA         5/26/10         21:59         202273           4-Methyl-2-pentanone         5.0         U         5.0         0.56         1         NA         5/26/10         21:59         202273           Acetone         0.94         BJ         5.0         0.69         1         NA         5/26/10         21:59         202273           Benzene         1.0         U         1.0         0.098         1         NA         5/26/10         21:59         202273           Bromochloromethane         1.0         U         1.0         0.18         1         NA         5/26/10         21:59         202273           Bromochloromethane         1.0         U         1.0         0.15         1         NA         5/26/10         21:59         202273           Bromoform         1.0         U         1.0         0.12         1         NA         5/26/10         21:59         202273           Carbon Disulfide         1.0         U         1.0         0.12         1         NA         5/26/10         21:59         202273           Chlorobenzene         1.0         U   |                              |          |     |       | 1        |           |               |                     |      |
| 4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/26/10 21:59       202273         Acetone       0.94       BJ       5.0       0.69       1       NA       5/26/10 21:59       202273         Benzene       1.0       U       1.0       0.098       1       NA       5/26/10 21:59       202273         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/26/10 21:59       202273         Bromodichloromethane       1.0       U       1.0       0.15       1       NA       5/26/10 21:59       202273         Bromoform       1.0       U       1.0       0.15       1       NA       5/26/10 21:59       202273         Bromoform       1.0       U       1.0       0.14       1       NA       5/26/10 21:59       202273         Carbon Disulfide       1.0       U       1.0       0.16       1       NA       5/26/10 21:59       202273         Carbon Tetrachloride       1.0       U       1.0       0.12       1       NA       5/26/10 21:59       202273         Chlorobenzene       1.0       U       1.0       0.14       1       N   | 2-Butanone (MEK)             | 5.0 U    | 5.0 | 0.75  | I        | NA        | 5/26/10 21:59 | 202273              |      |
| Acctone0.94 BJ5.00.691NA5/26/10 21:59202273Benzene1.0 U1.0 0.0981NA5/26/10 21:59202273Bromochloromethane1.0 U1.0 0.181NA5/26/10 21:59202273Bromodichloromethane1.0 U1.0 0.151NA5/26/10 21:59202273Bromodichloromethane1.0 U1.0 0.151NA5/26/10 21:59202273Bromoform1.0 U1.0 0.141NA5/26/10 21:59202273Bromoform1.0 U1.0 0.121NA5/26/10 21:59202273Carbon Disulfide1.0 U1.0 0.121NA5/26/10 21:59202273Carbon Tetrachloride1.0 U1.0 0.121NA5/26/10 21:59202273Chlorobenzene1.0 U1.0 0.121NA5/26/10 21:59202273Chlorotehane1.0 U1.0 0.121NA5/26/10 21:59202273Chlorotehane1.0 U1.0 0.151NA5/26/10 21:59202273Chloromethane1.0 U1.0 0.151NA5/26/10 21:59202273Chloromethane1.0 U1.0 0.111NA5/26/10 21:59202273Chloromethane1.0 U1.0 0.0791NA5/26/10 21:59202273Cis-1,3-Dichloropropene1.0 U1.0 0.0791NA5/26/10 21:59202273Dibromochloromethane1.0 U1.0 0.031NA <td< td=""><td>2-Hexanone</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></td<>   | 2-Hexanone                   |          |     |       | 1        |           |               |                     |      |
| Benzene1.0U1.00.0981NA5/26/10 21:59202273Bromochloromethane1.0U1.00.181NA5/26/10 21:59202273Bromodichloromethane1.0U1.00.151NA5/26/10 21:59202273Bromoform1.0U1.00.141NA5/26/10 21:59202273Bromoform1.0U1.00.141NA5/26/10 21:59202273Bromomethane1.0U1.00.121NA5/26/10 21:59202273Carbon Disulfide1.0U1.00.161NA5/26/10 21:59202273Carbon Tetrachloride1.0U1.00.121NA5/26/10 21:59202273Chlorobenzene1.0U1.00.121NA5/26/10 21:59202273Chlorobenzene1.0U1.00.141NA5/26/10 21:59202273Chloroform1.0U1.00.141NA5/26/10 21:59202273Chloromethane1.0U1.00.151NA5/26/10 21:59202273Chloromethane1.0U1.00.121NA5/26/10 21:59202273Chloromethane1.0U1.00.121NA5/26/10 21:59202273Cis-1,3-Dichloropethene1.0U1.00.111NA5/26/10 21:59 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  |                              |          |     |       |          |           |               |                     |      |
| Bromochloromethane1.0U1.00.181NA5/26/10 21:59202273Bromodichloromethane1.0U1.00.151NA5/26/10 21:59202273Bromoform1.0U1.00.141NA5/26/10 21:59202273Bromomethane1.0U1.00.121NA5/26/10 21:59202273Carbon Disulfide1.0U1.00.161NA5/26/10 21:59202273Carbon Tetrachloride1.0U1.00.121NA5/26/10 21:59202273Chlorobenzene1.0U1.00.121NA5/26/10 21:59202273Chlorothane1.0U1.00.141NA5/26/10 21:59202273Chloroform1.0U1.00.121NA5/26/10 21:59202273Chloroform1.0U1.00.151NA5/26/10 21:59202273Chloroform1.0U1.00.121NA5/26/10 21:59202273Chlorofethane1.0U1.00.111NA5/26/10 21:59202273cis-1,2-Dichloroethene1.0U1.00.0791NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0U1.00.131NA5/26/10 21:59202273Dibromochloromethane1.0U1.00.131NA5/2   | Acetone                      | 0.94 BJ  | 5.0 | 0.69  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| Bromodichloromethane1.0U1.00.151NA5/26/10 21:59202273Bromoform1.0U1.00.141NA5/26/10 21:59202273Bromomethane1.0U1.00.121NA5/26/10 21:59202273Carbon Disulfide1.0U1.00.161NA5/26/10 21:59202273Carbon Tetrachloride1.0U1.00.121NA5/26/10 21:59202273Chlorobenzene1.0U1.00.141NA5/26/10 21:59202273Chlorocthane1.0U1.00.141NA5/26/10 21:59202273Chloroform1.0U1.00.211NA5/26/10 21:59202273Chloroform1.0U1.00.151NA5/26/10 21:59202273Chloroform1.0U1.00.121NA5/26/10 21:59202273Chloroform1.0U1.00.121NA5/26/10 21:59202273cis-1,2-Dichloroethene1.0U1.00.111NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0U1.00.0791NA5/26/10 21:59202273Dibromochloromethane1.0U1.00.131NA5/26/10 21:59202273  | Benzene                      |          |     |       | 1        |           |               |                     |      |
| Bromoform1.0 U1.0 U1.0 0.141NA5/26/10 21:59202273Bromomethane1.0 U1.0 U1.0 0.121NA5/26/10 21:59202273Carbon Disulfide1.0 U1.0 U1.0 0.161NA5/26/10 21:59202273Carbon Tetrachloride1.0 U1.0 0.121NA5/26/10 21:59202273Carbon Tetrachloride1.0 U1.0 0.121NA5/26/10 21:59202273Chlorobenzene1.0 U1.0 0.141NA5/26/10 21:59202273Chlorotethane1.0 U1.0 0.211NA5/26/10 21:59202273Chloroform1.0 U1.0 0.151NA5/26/10 21:59202273Chloromethane1.0 U1.0 0.151NA5/26/10 21:59202273cis-1,2-Dichloroethene1.0 U1.0 0.111NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0 U1.0 0.0791NA5/26/10 21:59202273Dibromochloromethane1.0 U1.0 0.131NA5/26/10 21:59202273   |                              |          |     |       |          |           |               |                     |      |
| Bromomethane1.0U1.00.121NA5/26/10 21:59202273Carbon Disulfide1.0U1.00.161NA5/26/10 21:59202273Carbon Tetrachloride1.0U1.00.121NA5/26/10 21:59202273Carbon Tetrachloride1.0U1.00.121NA5/26/10 21:59202273Chlorobenzene1.0U1.00.141NA5/26/10 21:59202273Chloroethane1.0U1.00.211NA5/26/10 21:59202273Chloroform1.0U1.00.151NA5/26/10 21:59202273Chloromethane1.0U1.00.121NA5/26/10 21:59202273cis-1,2-Dichloroethene1.0U1.00.111NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0U1.00.0791NA5/26/10 21:59202273Dibromochloromethane1.0U1.00.131NA5/26/10 21:59202273   | Bromodichloromethane         | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| Carbon Disulfide1.0U1.00.161NA $5/26/10\ 21:59$ 202273Carbon Tetrachloride1.0U1.00.121NA $5/26/10\ 21:59$ 202273Chlorobenzene1.0U1.00.141NA $5/26/10\ 21:59$ 202273Chloroethane1.0U1.00.211NA $5/26/10\ 21:59$ 202273Chloroform1.0U1.00.211NA $5/26/10\ 21:59$ 202273Chloroform1.0U1.00.151NA $5/26/10\ 21:59$ 202273Chloromethane1.0U1.00.121NA $5/26/10\ 21:59$ 202273cis-1,2-Dichloroethene1.0U1.00.111NA $5/26/10\ 21:59$ 202273cis-1,3-Dichloropropene1.0U1.00.0791NA $5/26/10\ 21:59$ 202273Dibromochloromethane1.0U1.00.131NA $5/26/10\ 21:59$ 202273  | Bromoform                    |          |     |       | 1        |           | 5/26/10 21:59 | 202273              |      |
| Carbon Tetrachloride1.0U1.00.121NA $5/26/10\ 21:59$ 202273Chlorobenzene1.0U1.00.141NA $5/26/10\ 21:59$ 202273Chloroethane1.0U1.00.211NA $5/26/10\ 21:59$ 202273Chloroform1.0U1.00.151NA $5/26/10\ 21:59$ 202273Chloromethane1.0U1.00.151NA $5/26/10\ 21:59$ 202273Chloromethane1.0U1.00.121NA $5/26/10\ 21:59$ 202273cis-1,2-Dichloroethene1.0U1.00.111NA $5/26/10\ 21:59$ 202273cis-1,3-Dichloropropene1.0U1.00.0791NA $5/26/10\ 21:59$ 202273Dibromochloromethane1.0U1.00.131NA $5/26/10\ 21:59$ 202273   |                              |          |     |       |          |           |               |                     |      |
| Chlorobenzene1.0U1.00.141NA5/26/10 21:59202273Chloroethane1.0U1.00.211NA5/26/10 21:59202273Chloroform1.0U1.00.151NA5/26/10 21:59202273Chloromethane1.0U1.00.121NA5/26/10 21:59202273chloromethane1.0U1.00.121NA5/26/10 21:59202273cis-1,2-Dichloroethene1.0U1.00.111NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0U1.00.0791NA5/26/10 21:59202273Dibromochloromethane1.0U1.00.131NA5/26/10 21:59202273   | Carbon Disulfide             | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| Chloroethane1.0 U1.0 0.211NA5/26/10 21:59202273Chloroform1.0 U1.0 0.151NA5/26/10 21:59202273Chloromethane1.0 U1.0 0.121NA5/26/10 21:59202273cis-1,2-Dichloroethene1.0 U1.0 0.111NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0 U1.0 0.0791NA5/26/10 21:59202273Dibromochloromethane1.0 U1.0 0.131NA5/26/10 21:59202273   | Carbon Tetrachloride         |          |     |       | 1        |           | 5/26/10 21:59 | 202273              |      |
| Chloroform1.0 U1.0 0.151NA5/26/10 21:59202273Chloromethane1.0 U1.0 0.121NA5/26/10 21:59202273cis-1,2-Dichloroethene1.0 U1.0 0.111NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0 U1.0 0.0791NA5/26/10 21:59202273Dibromochloromethane1.0 U1.0 0.131NA5/26/10 21:59202273  |                              |          |     |       |          |           |               |                     |      |
| Chloromethane       1.0 U       1.0 U       1.0 0.12       1       NA       5/26/10 21:59       202273         cis-1,2-Dichloroethene       1.0 U       1.0 0.11       1       NA       5/26/10 21:59       202273         cis-1,3-Dichloropropene       1.0 U       1.0 0.079       1       NA       5/26/10 21:59       202273         Dibromochloromethane       1.0 U       1.0 0.13       1       NA       5/26/10 21:59       202273  | Chloroethane                 | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
| cis-1,2-Dichloroethene1.0 U1.00.111NA5/26/10 21:59202273cis-1,3-Dichloropropene1.0 U1.00.0791NA5/26/10 21:59202273Dibromochloromethane1.0 U1.00.131NA5/26/10 21:59202273  | Chloroform                   |          |     |       | 1        |           |               | 202273              |      |
| cis-1,3-Dichloropropene1.0 U1.0 0.0791NA5/26/10 21:59202273Dibromochloromethane1.0 U1.0 0.131NA5/26/10 21:59202273  |                              |          |     |       |          |           |               |                     |      |
| Dibromochloromethane 1.0 U 1.0 0.13 1 NA 5/26/10 21:59 202273   | cis-1,2-Dichloroethene       | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:59 | 202273              |      |
|   | cis-1,3-Dichloropropene      |          |     |       |          |           |               |                     |      |
| Ethylbenzene 1.0 U 1.0 0.13 1 NA 5/26/10 21:59 202273   |                              |          |     |       |          |           |               |                     |      |
|   | Ethylbenzene                 | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:59 | 202273              |      |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/20/10 1010 |
| Sample Matrix: | Water                                     | Date Received: 5/21/10       |
| Sample Name:   | DGC-4S                                    | Units: µg/L                  |
| Lab Code:      | R1002703-012                              | Basis: NA                    |

# Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                                      |        |   |     |       | Dilution | Date      | Date          | Extraction | Analysi | S    |
|--------------------------------------|--------|---|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                         | Result | Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                  | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| m,p-Xylenes                          | 1.0    | U | 1.0 | 0.22  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| Dichloromethane (Methylene Chloride) | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| o-Xylene                             | 1.0    | U | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| Styrene                              | 1.0    | U | 1.0 | 0.096 | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| Tetrachloroethene (PCE)              | 1.0    | U | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| Toluene                              | 1.0    | U | 1.0 | 0.098 | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| trans-1,2-Dichloroethene             | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| trans-1,3-Dichloropropene            | 1.0    | U | 1.0 | 0.060 | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| Trichloroethene (TCE)                | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| Trichlorofluoromethane (CFC 11)      | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |
| Vinyl Chloride                       | 1.0    | U | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:59 | )          | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |  |
|----------------------|------|-------------------|------------------|---|------|--|
| 4-Bromofluorobenzene | 92   | 80-120            | 5/26/10 21:59    |   |      |  |



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

Service Request: R1002703 Date Collected: 5/20/10 Date Received: 5/21/10 Date Analyzed: 5/26/10 2159

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

| Sample Name:<br>Lab Code: | DGC-4S<br>R1002703-012 |    |          | Units: μg/.<br>Basis: NA |  |
|---------------------------|------------------------|----|----------|--------------------------|--|
| Analytical Method         | : CLP-VOA OLC02.1      |    |          |                          |  |
| CAS # An                  | alyte Name             | RT | Result Q |                          |  |

No Tentatively Identified Compounds Detected.

Comments:

.

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/20/10 1045 |
| Sample Matrix: | Water                                     | Date Received: 5/21/10       |
| Sample Name:   | DGC-3S                                    | Units: µg/L                  |
| Lab Code:      | R1002703-013                              | Basis: NA                    |

# Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|                                       |          |     |       | Dilution | Date      | Date          | Extraction Analysis |
|---------------------------------------|----------|-----|-------|----------|-----------|---------------|---------------------|
| Analyte Name                          | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot Not         |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,1,2-Trichloroethane                 | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,2,3-Trichlorobenzene                | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,2,4-Trichlorobenzene                | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,2-Dibromoethane                     | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,2-Dichloroethane                    | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,2-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.089 | 1        | NA        | 5/26/10 22:36 |                     |
| 1,2-Dichloropropane                   | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 22:36 |                     |
| 1,3-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/26/10 22:36 | 202273              |
| 1,4-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.085 | 1        | NA        | 5/26/10 22:36 | 202273              |
| 2-Butanone (MEK)                      | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 2-Hexanone                            | 5.0 U    | 5.0 | 0.51  | 1        | NA        | 5/26/10 22:36 | 202273              |
| 4-Methyl-2-pentanone                  | 5.0 U    | 5.0 | 0,56  | 1        | NA        | 5/26/10 22:36 | 202273              |
| Acetone                               | 1.5 BJ   | 5.0 | 0.69  | 1        | NA        | 5/26/10 22:36 | 202273              |
| Benzene                               | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 22:36 |                     |
| Bromochloromethane                    | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 22:36 |                     |
| Bromodichloromethane                  | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 22:36 | 202273              |
| Bromoform                             | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 22:36 | 202273              |
| Bromomethane                          | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 22:36 |                     |
| Carbon Disulfide                      | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 22:36 | 202273              |
| Carbon Tetrachloride                  | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 22:36 |                     |
| Chlorobenzene                         | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 22:36 |                     |
| Chloroethane                          | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/26/10 22:36 | 202273              |
| Chloroform                            | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 22:36 |                     |
| Chloromethane                         | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 22:36 |                     |
| cis-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 22:36 | 202273              |
| cis-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.079 | 1        | NA        | 5/26/10 22:36 |                     |
| Dibromochloromethane                  | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 22:36 |                     |
| Ethylbenzene                          | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 22:36 | 202273              |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/20/10 1045 |
| Sample Matrix: | Water                                     | Date Received: 5/21/10       |
| Sample Name:   | DGC-3S                                    | Units: µg/L                  |
| Lab Code:      | R1002703-013                              | Basis: NA                    |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|   |        |   |     |       | Dilution | Date      | Date          | Extraction | Analysi | s    |
|---|--------|---|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result | Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| m,p-Xylenes                             | 1.0    | U | 1.0 | 0.22  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| o-Xylene                                | 1.0    | U | 1.0 | 0.11  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Styrene                                 | 1.0    | U | 1.0 | 0.096 | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Tetrachloroethene (PCE)                 | 1.0    | U | 1.0 | 0.15  | 1        | NA        | 5/26/10 22:36 | ,<br>i     | 202273  |      |
| Toluene                                 | 1.0    | U | 1.0 | 0.098 | 1        | NA        | 5/26/10 22:36 |            | 202273  |      |
| trans-1,2-Dichloroethene                | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 22:36 | ā          | 202273  |      |
| trans-1,3-Dichloropropene               | 1.0    | U | 1.0 | 0.060 | 1        | NA        | 5/26/10 22:36 | j          | 202273  |      |
| Trichloroethene (TCE)                   | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/26/10 22:36 | i          | 202273  |      |
| Vinyl Chloride                          | 1.0    | U | 1.0 | 0.14  | 1        | NA        | 5/26/10 22:36 | i          | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 91   | 80-120            | 5/26/10 22:36      |      |  |



Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water                          | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/21/10 |
|---------------------------------------|---|---|--------------------|
|                                       | Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |   |                    |
| Sample Name:<br>Lab Code:             | DGC-3S<br>R1002703-013  | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1   |   |                    |

| CAS #  | Analyte Name  | RT  | Result Q |
|--------|---------------|-----|----------|
| C110 # | mary te mante | IXI | Mesune V |

No Tentatively Identified Compounds Detected.



Analytical Report

Client: Shaw Environmental & Infrastructure, Inc. **Project:** GE MRFA/138165 Sample Matrix: Water

Service Request: R1002703 Date Collected: 5/20/10 Date Received: 5/21/10

Sample Name: Trip Blank Lab Code: R1002703-014

Units: µg/L Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|                                       |        |        |       | Dilution | Date      | Date          | Extraction Analysis |
|---------------------------------------|--------|--------|-------|----------|-----------|---------------|---------------------|
| Analyte Name                          | Result | Q MRL  | MDL   | Factor   | Extracted | Analyzed      | Lot Lot No          |
| 1,1,1-Trichloroethane (TCA)           | 1.0    | U 1.0  | 0.14  | 1        | NA        | 5/26/10 23:12 | 2 202273            |
| 1,1,2,2-Tetrachloroethane             | 1.0    | U 1.0  | 0.12  | 1        | NA        | 5/26/10 23:12 | 2 202273            |
| 1,1,2-Trichloroethane                 | 1.0    | U 1.0  | 0.11  | I        | NA        | 5/26/10 23:12 | 202273              |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0    | U 1.0  | 0.11  | 1        | NA        | 5/26/10 23:12 | 202273              |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0    |        | 0.17  | 1        | NA        | 5/26/10 23:12 |                     |
| 1,2,3-Trichlorobenzene                | 1.0    | U 1.0  | 0.18  | 1        | NA        | 5/26/10 23:12 | 202273              |
| 1,2,4-Trichlorobenzene                | 1.0    | U 1.0  | 0.13  | 1        | NA        | 5/26/10 23:12 | 202273              |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0    | U 1.0  | 0.34  | 1        | NA        | 5/26/10 23:12 | 202273              |
| 1,2-Dibromoethane                     | 1.0    | U 1.0  | 0.14  | 1        | NA        | 5/26/10 23:12 | 202273              |
| 1,2-Dichloroethane                    | 1.0    | U 1.0  | 0.057 | 1        | NA        | 5/26/10 23:12 | 202273              |
| 1,2-Dichlorobenzene                   | 1.0    | U 1.0  | 0.089 | 1        | NA        | 5/26/10 23:12 | 202273              |
| 1,2-Dichloropropane                   | 1.0    | U 1.0  | 0.15  | 1        | NA        | 5/26/10 23:12 | 2 202273            |
| 1,3-Dichlorobenzene                   | 1.0    | U 1.0  | 0.092 | 1        | NA        | 5/26/10 23:12 | 2 202273            |
| 1,4-Dichlorobenzene                   | 1.0    | U 1.0  | 0.085 | 1        | NA        | 5/26/10 23:12 | 202273              |
| 2-Butanone (MEK)                      | 5.0    | U 5.0  | 0.75  | 1        | NA        | 5/26/10 23:12 | 202273              |
| 2-Hexanone                            | 5.0    |        | 0.51  | 1        | NA        | 5/26/10 23:12 |                     |
| 4-Methyl-2-pentanone                  | 5.0    |        | 0,56  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Acetone                               | 1.4    | BJ 5.0 | 0.69  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Benzene                               | 1.0    |        | 0.098 | 1        | NA        | 5/26/10 23:12 | 202273              |
| Bromochloromethane                    | 1.0    |        | 0.18  | 1        | NA        | 5/26/10 23:12 |                     |
| Bromodichloromethane                  | 1.0    | U 1.0  | 0.15  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Bromoform                             | 1.0    |        | 0.14  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Bromomethane                          | 1.0    |        | 0.12  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Carbon Disulfide                      | 1.0    | U 1.0  | 0,16  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Carbon Tetrachloride                  | 1.0    |        | 0.12  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Chlorobenzene                         | 1.0    |        | 0.14  | 1        | NA        | 5/26/10 23:12 |                     |
| Chloroethane                          | 1.0    | U 1.0  | 0.21  | 1        | NA        | 5/26/10 23:12 | 202273              |
| Chloroform                            | 1.0    |        | 0.15  | 1        | NA        | 5/26/10 23:12 |                     |
| Chloromethane                         | 1.0    |        | 0.12  | 1        | NA        | 5/26/10 23:12 | 202273              |
| cis-1,2-Dichloroethene                | 1.0    | U 1.0  | 0.11  | 1        | NA        | 5/26/10 23:12 | 202273              |
| cis-1,3-Dichloropropene               | 1.0    |        | 0.079 | 1        | NA        | 5/26/10 23:12 |                     |
| Dibromochloromethane                  | 1.0    |        | 0.13  | 1        | NA        | 5/26/10 23:12 |                     |
| Ethylbenzene                          | 1.0    | U 1.0  | 0.13  | 1        | NA        | 5/26/10 23:12 | 202273              |
|                                       |        |        |       |          |           |               | ······              |

Comments:

,

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/20/10   |
| Sample Matrix: | Water                                     | Date Received: 5/21/10    |
| Sample Name:   | Trip Blank                                | Units: µg/L               |
| Lab Code:      | R1002703-014                              | Basis: NA                 |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | S      |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|--------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note   |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | •••••• |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 23:12 | <u>,</u>   | 202273  |        |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 23:12 | ļ.         | 202273  |        |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 23:12 | ]          | 202273  |        |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  |        |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |  |
|----------------------|------|-------------------|------------------|---|------|--|
| 4-Bromofluorobenzene | 88   | 80-120            | 5/26/10 23:12    |   |      |  |

Comments:

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

 Service Request:
 R1002703

 Date Collected:
 5/20/10

 Date Received:
 5/21/10

 Date Analyzed:
 5/26/10 2312

#### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

| Sample Name:<br>Lab Code: | Trip Blank<br>R1002703-014  |             |           | Units: µg/L<br>Basis: NA |
|---------------------------|-----------------------------|-------------|-----------|--------------------------|
| Analytical Metho          | d: CLP-VOA OLC02.1          |             |           |                          |
| CAS # A                   | nalyte Name                 | RT          | Result Q  |                          |
|                           | No Tentatively Identified ( | Compounds D | Detected. |                          |

**Comments:** 

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: NA        |
| Sample Matrix: | Water                                     | Date Received: NA         |
| Sample Name:   | Method Blank                              | Units: μg/L               |
| Lab Code:      | RQ1004245-01                              | Basis: NA                 |

# Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|                                       |          |     |       | Dilution | Date      | Date          | <b>Extraction Analy</b> | sis  |
|---------------------------------------|----------|-----|-------|----------|-----------|---------------|-------------------------|------|
| Analyte Name                          | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot                 | Note |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,1,2-Trichloroethane                 | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,2,3-Trichlorobenzene                | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,2,4-Trichlorobenzene                | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,2-Dibromoethane                     | 1.0 U    | 1.0 | 0.14  | I        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,2-Dichloroethane                    | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,2-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.089 | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,2-Dichloropropane                   | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 1,3-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| 1,4-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.085 | 1        | NA        | 5/26/10 15:39 | 20227                   | '3   |
| 2-Butanone (MEK)                      | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| 2-Hexanone                            | 5.0 U    | 5.0 | 0.51  | 1        | NA        | 5/26/10 15:39 |                         |      |
| 4-Methyl-2-pentanone                  | 5.0 U    | 5.0 | 0.56  | 1        | NA        | 5/26/10 15:39 |                         |      |
| Acetone                               | 1.0 J    | 5.0 | 0.69  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| Benzene                               | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 15:39 |                         |      |
| Bromochloromethane                    | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 15:39 |                         |      |
| Bromodichloromethane                  | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| Bromoform                             | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 15:39 |                         |      |
| Bromomethane                          | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 15:39 |                         |      |
| Carbon Disulfide                      | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| Carbon Tetrachloride                  | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 15:39 |                         |      |
| Chlorobenzene                         | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 15:39 |                         |      |
| Chloroethane                          | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| Chloroform                            | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 15:39 |                         | 3    |
| Chloromethane                         | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| cis-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
| cis-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.079 | 1        | NA        | 5/26/10 15:39 |                         |      |
| Dibromochloromethane                  | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 15:39 |                         |      |
| Ethylbenzene                          | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 15:39 | 20227                   | 3    |
|                                       |          |     |       |          |           |               |                         |      |

#### Comments:

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: NA        |
| Sample Matrix: | Water                                     | Date Received: NA         |
| Sample Name:   | Method Blank                              | Units: µg/L               |
| Lab Code:      | RQ1004245-01                              | Basis: NA                 |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                                      |        |   |     |       | Dilution | Date      | Date          | Extraction A | Analysi | S     |
|--------------------------------------|--------|---|-----|-------|----------|-----------|---------------|--------------|---------|-------|
| Analyte Name                         | Result | Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot          | Lot     | Note  |
| Hexachlorobutadiene                  | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/26/10 15:39 | )            | 202273  | ····· |
| m,p-Xylenes                          | 1.0    | U | 1.0 | 0.22  | 1        | NA        | 5/26/10 15:39 | ) ;          | 202273  |       |
| Dichloromethane (Methylene Chloride) | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 15:39 | )            | 202273  |       |
| o-Xylene                             | 1.0    | U | 1.0 | 0.11  | 1        | NA        | 5/26/10 15:39 | )            | 202273  |       |
| Styrene                              | 1.0    | U | 1.0 | 0.096 | 1        | NA        | 5/26/10 15:39 | ) 2          | 202273  |       |
| Tetrachloroethene (PCE)              | 1.0    | U | 1.0 | 0.15  | 1        | NA        | 5/26/10 15:39 | ) 2          | 202273  |       |
| Toluene                              | 1.0    | U | 1.0 | 0.098 | 1        | NA        | 5/26/10 15:39 | ) (          | 202273  |       |
| trans-1,2-Dichloroethene             | 1.0    | U | 1.0 | 0.16  | 1        | NA        | 5/26/10 15:39 | ) 2          | 202273  |       |
| trans-1,3-Dichloropropene            | 1.0    | U | 1.0 | 0.060 | 1        | NA        | 5/26/10 15:39 | ) 2          | 202273  |       |
| Trichloroethene (TCE)                | 1.0    | U | 1.0 | 0.16  | I        | NA        | 5/26/10 15:39 | )            | 202273  |       |
| Trichlorofluoromethane (CFC 11)      | 1.0    | U | 1.0 | 0.18  | 1        | NA        | 5/26/10 15:39 | ) 2          | 202273  |       |
| Vinyl Chloride                       | 1.0    | U | 1.0 | 0.14  | 1        | NA        | 5/26/10 15:39 | )2           | 202273  |       |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed O | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 94   | 80-120            | 5/26/10 15:39      |      |  |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

Service Request: R1002703 Date Collected: NA Date Received: NA Date Analyzed: 5/26/10 1539

### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

| Sample Name:<br>Lab Code: | Method Blank<br>RQ1004245-01 |               |           | Units: µg/L<br>Basis: NA |
|---------------------------|------------------------------|---------------|-----------|--------------------------|
| Analytical Method:        | CLP-VOA OLC02.1              |               |           |                          |
| CAS# Ana                  | lyte Name                    | RT            | Result Q  |                          |
|                           | No Tentatively Identifie     | d Compounds I | Detected. |                          |



Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

Service Request: R1002703 Date Collected: NA Date Received: NA

Sample Name:Method BlankLab Code:RQ1004330-01

Units: µg/L Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                              |                |       |       | Dilution | Date      |               | Extraction Analysis |
|------------------------------|----------------|-------|-------|----------|-----------|---------------|---------------------|
| Analyte Name                 | Result (       | -     | MDL   | Factor   | Extracted | Analyzed      | Lot Lot Note        |
| 1,1,1-Trichloroethane (TCA)  | 1.0 l          |       | 0.14  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,1,2,2-Tetrachloroethane    | 1.0 U          |       | 0.12  | 1        | NA        | 5/27/10 14:48 | 3 202478            |
| 1,1,2-Trichloroethane        | 1.0 U          | J 1.0 | 0.11  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,1-Dichloroethane (1,1-DCA) | 1.0 l          |       | 0.11  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,1-Dichloroethene (1,1-DCE) | 1.0 U          | J 1.0 | 0.17  | 1        | NA        | 5/27/10 14:48 | 3 202478            |
| 1,2,3-Trichlorobenzene       | 1.0 L          | J 1.0 | 0.18  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,2,4-Trichlorobenzene       | 1.0 U          | J 1.0 | 0.13  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,2-Dibromo-3-chloropropane  | 1.0 l          | J 1.0 | 0.34  | 1        | NA        | 5/27/10 14:48 |                     |
| (DBCP)                       |                |       |       |          |           |               |                     |
| 1,2-Dibromoethane            | 1.0 U          | J 1.0 | 0.14  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,2-Dichloroethane           | 1.0 L          |       | 0.057 | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,2-Dichlorobenzene          | 1.0 L          |       | 0.089 | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,2-Dichloropropane          | 1.0 L          | J 1.0 | 0.15  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,3-Dichlorobenzene          | 1.0 U          | J 1.0 | 0.092 | 1        | NA        | 5/27/10 14:48 | 202478              |
| 1,4-Dichlorobenzene          | 1.0 U          | J 1.0 | 0.085 | 1        | NA        | 5/27/10 14:48 | 202478              |
| 2-Butanone (MEK)             | 5.0 U          | 5.0   | 0.75  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 2-Hexanone                   | 5.0 U          | J 5.0 | 0.51  | 1        | NA        | 5/27/10 14:48 | 202478              |
| 4-Methyl-2-pentanone         | 5.0 U          | J 5.0 | 0.56  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Acetone                      | 0 <b>.91</b> J | 5.0   | 0.69  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Benzene                      | 1.0 U          | T 1.0 | 0.098 | 1        | NA        | 5/27/10 14:48 | 202478              |
| Bromochloromethane           | 1.0 U          | ۱.0   | 0.18  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Bromodichloromethane         | 1.0 U          | J 1.0 | 0.15  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Bromoform                    | 1.0 U          | r 1.0 | 0.14  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Bromomethane                 | 1.0 U          | 1.0   | 0.12  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Carbon Disulfide             | 1.0 U          | 1.0   | 0.16  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Carbon Tetrachloride         | 1.0 U          | 1.0   | 0.12  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Chlorobenzene                | 1.0 U          | 1.0   | 0.14  | 1        | NA        | 5/27/10 14:48 |                     |
| Chloroethane                 | 1.0 U          | 1.0   | 0.21  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Chloroform                   | 1.0 U          | 1.0   | 0.15  | 1        | NA        | 5/27/10 14:48 | 202478              |
| Chloromethane                | 1.0 U          | 1.0   | 0.12  | 1        | NA        | 5/27/10 14:48 | 202478              |
| cis-1,2-Dichloroethene       | 1.0 U          | 1.0   | 0.11  | 1        | NA        | 5/27/10 14:48 | 202478              |
| cis-1,3-Dichloropropene      | 1.0 U          | 1.0   | 0.079 | 1        | NA        | 5/27/10 14:48 | 202478              |
| Dibromochloromethane         | 1.0 U          | 1.0   | 0.13  | 1        | NA        | 5/27/10 14:48 |                     |
| Ethylbenzene                 | 1.0 U          |       | 0.13  | 1        | NA        | 5/27/10 14:48 |                     |
|                              |                |       |       |          |           |               |                     |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: NA        |
| Sample Matrix: | Water                                     | Date Received: NA         |
| Sample Name:   | Method Blank                              | Units: µg/L               |
| Lab Code:      | RQ1004330-01                              | Basis: NA                 |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      |               | Extraction | Analysi | s    |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  | _    |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 14:48 | 5          | 202478  |      |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 14:48 | 3          | 202478  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 95   | 80-120            | 5/27/10 14:48      |      |  |

**Comments:** 

.



Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. |
|----------------|---|
| Project:       | GE MRFA/138165                            |
| Sample Matrix: | Water                                     |

Service Request: R1002703 Date Collected: NA Date Received: NA Date Analyzed: 5/27/10 1448

### Tentatively Identified Compounds (TIC) Low Level Water Volatile Organic Compounds by GC/MS

| Sample Name:<br>Lab Code: | Method Blank<br>RQ1004330-01                  |    |          |  | Units: μg/L<br>Basis: NA |
|---------------------------|---|----|----------|--|--------------------------|
| Analytical Method:        | CLP-VOA OLC02.1                               |    |          |  |                          |
| CAS # Anal                | yte Name                                      | RT | Result Q |  | ·····                    |
|                           | No Tentatively Identified Compounds Detected. |    |          |  |                          |



#### QA/QC Report

| Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703     |
|---|-------------------------------|
| GE MRFA/138165                            | Date Collected: 5/19/10       |
| Water                                     | <b>Date Received:</b> 5/20/10 |
|   | GE MRFA/138165                |

#### Matrix Spike Summary Low Level Water Volatile Organic Compounds by GC/MS

| Sample Name: | DUPE A       |  |
|--------------|--------------|--|
| Lab Code:    | R1002703-002 |  |

Analytical Method: CLP-VOA OLC02.1

|                         | Sample | <b>Matrix Spike</b><br>RQ1004245-05 |        | <b>Duplicate Matrix Spike</b><br>RQ1004245-06 |        |        | % Rec |            | RPD |       |
|-------------------------|--------|-------------------------------------|--------|---|--------|--------|-------|------------|-----|-------|
| Analyte Name            | Result | Result                              | Amount | % Rec   | Result | Amount | % Rec | Limits     | RPD | Limit |
| 1,1,2-Trichloroethane   | ND     | 4.55                                | 5.00   | 91  | 4.53   | 5.00   | 91    | 60 - 140   | 0   | 30    |
| 1,2-Dibromoethane       | ND     | 4.22                                | 5.00   | 84  | 4.38   | 5,00   | 88    | 60 - 140   | 4   | 30    |
| 1,2-Dichloroethane      | ND     | 4.22                                | 5.00   | 84  | 4.45   | 5.00   | 89    | 60 - 140   | 5   | 30    |
| 1,2-Dichloropropane     | ND     | 4.34                                | 5.00   | 87  | 4.35   | 5.00   | 87    | 60 - 140   | 0   | 30    |
| 1,4-Dichlorobenzene     | ND     | 4.46                                | 5.00   | 89  | 4.35   | 5.00   | 87    | 60 - 140   | 2   | 30    |
| Benzene                 | ND     | 4.49                                | 5.00   | 90  | 4.31   | 5.00   | 86    | 60 - 140   | 4   | 30    |
| Bromoform               | ND     | 4.11                                | 5.00   | 82  | 4.33   | 5.00   | 87    | 60 - 140   | 5   | 30    |
| Carbon Tetrachloride    | 4.8    | 9.00                                | 5.00   | 84  | 8.58   | 5.00   | 75    | 60 - 140   | 5   | 30    |
| cis-1,3-Dichloropropene | ND     | 4.11                                | 5.00   | 82  | 4.06   | 5.00   | 81    | 60 - 140   | 1   | 30    |
| Tetrachloroethene (PCE) | ND     | 4,83                                | 5.00   | 97  | 4.58   | 5.00   | 92    | 60 - 140   | 5   | 30    |
| Trichloroethene (TCE)   | 10     | 13.7                                | 5.00   | 63  | 13.0   | 5.00   | 51    | * 60 - 140 | 5   | 30    |
| Vinyl Chloride          | ND     | 4.52                                | 5.00   | 90  | 4.46   | 5.00   | 89    | 60 - 140   | 1   | 30    |

Comments:

### 0005y

Date Analyzed: 5/27/10

Units: µg/L Basis: NA

.

#### QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

Service Request: R1002703 Date Collected: 5/20/10 Date Received: 5/21/10 Date Analyzed: 5/26/10 -5/27/10

Units: µg/L

Basis: NA

### Matrix Spike Summary Low Level Water Volatile Organic Compounds by GC/MS

| Sample Name: | 14D          |
|--------------|--------------|
| Lab Code:    | R1002703-010 |

Analytical Method: CLP-VOA OLC02.1

|                         | Sample | <b>Matrix Spike</b><br>RQ1004245-03 |        | Duplicate Matrix Spike<br>RQ1004245-04 |        |        | % Rec |          | RPD |       |
|-------------------------|--------|-------------------------------------|--------|--|--------|--------|-------|----------|-----|-------|
| Analyte Name            | Result | Result                              | Amount | % Rec                                  | Result | Amount | % Rec | Limits   | RPD | Limit |
| 1,1,2-Trichloroethane   | ND     | 4.75                                | 5.00   | 95                                     | 4.73   | 5,00   | 95    | 60 - 140 | 0   | 30    |
| 1,2-Dibromoethane       | ND     | 4.56                                | 5.00   | 91                                     | 4.47   | 5.00   | 89    | 60 - 140 | 2   | 30    |
| 1,2-Dichloroethane      | ND     | 4.78                                | 5.00   | 96                                     | 4.60   | 5.00   | 92    | 60 - 140 | 4   | 30    |
| 1,2-Dichloropropane     | ND     | 4.94                                | 5.00   | 99                                     | 4.95   | 5.00   | 99    | 60 - 140 | 0   | 30    |
| 1,4-Dichlorobenzene     | ND     | 4.95                                | 5.00   | 99                                     | 5.02   | 5.00   | 100   | 60 - 140 | 1   | 30    |
| Benzene                 | ND     | 4.94                                | 5.00   | 99                                     | 4.90   | 5.00   | 98    | 60 - 140 | 1   | 30    |
| Bromoform               | ND     | 4.67                                | 5.00   | 93                                     | 4.80   | 5.00   | 96    | 60 - 140 | 3   | 30    |
| Carbon Tetrachloride    | ND     | 5.08                                | 5.00   | 102                                    | 5.01   | 5.00   | 100   | 60 - 140 | 1   | 30    |
| cis-1,3-Dichloropropene | ND     | 4.06                                | 5,00   | 81                                     | 4.14   | 5.00   | 83    | 60 - 140 | 2   | 30    |
| Tetrachloroethene (PCE) | ND     | 5.02                                | 5.00   | 100                                    | 5.13   | 5.00   | 103   | 60 - 140 | 2   | 30    |
| Trichloroethene (TCE)   | ND     | 5.14                                | 5.00   | 103                                    | 4.96   | 5.00   | 99    | 60 - 140 | 4   | 30    |
| Vinyl Chloride          | ND     | 4.94                                | 5.00   | 99                                     | 4.73   | 5.00   | 95    | 60 - 140 | 4   | 30    |



QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

Service Request: R1002703 Date Analyzed: 5/26/10

### Lab Control Sample Summary Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

Units: µg/L Basis: NA

Analysis Lot: 202273

`

|                         | Lab Control Sample |            |       |          |  |  |
|-------------------------|--------------------|------------|-------|----------|--|--|
|                         | F                  | Q1004245-0 | 2     | % Rec    |  |  |
| Analyte Name            | Result             | Expected   | % Rec | Limits   |  |  |
| 1,1,2-Trichloroethane   | 5.22               | 5.00       | 104   | 60 - 140 |  |  |
| 1,2-Dibromoethane       | 5.19               | 5.00       | 104   | 60 - 140 |  |  |
| 1,2-Dichloroethane      | 4.84               | 5.00       | 97    | 60 - 140 |  |  |
| 1,2-Dichloropropane     | 5.05               | 5.00       | 101   | 60 ~ 140 |  |  |
| 1,4-Dichlorobenzene     | 4.97               | 5.00       | 99    | 60 - 140 |  |  |
| Benzene                 | 4.93               | 5.00       | 99    | 60 - 140 |  |  |
| Bromoform               | 5.08               | 5.00       | 102   | 60 - 140 |  |  |
| Carbon Tetrachloride    | 5.02               | 5.00       | 100   | 60 - 140 |  |  |
| cis-1,3-Dichloropropene | 4.73               | 5.00       | 95    | 60 - 140 |  |  |
| Tetrachloroethene (PCE) | 5.11               | 5.00       | 102   | 60 - 140 |  |  |
| Trichloroethene (TCE)   | 4.96               | 5.00       | 99    | 60 - 140 |  |  |
| Vinyl Chloride          | 4.74               | 5.00       | 95    | 60 - 140 |  |  |



QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

Service Request: R1002703 Date Analyzed: 5/27/10

### Lab Control Sample Summary Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

Units: µg/L Basis: NA

Analysis Lot: 202478

|                         | Lab    |             |       |          |
|-------------------------|--------|-------------|-------|----------|
|                         | F      | RQ1004330-0 | 2     | % Rec    |
| Analyte Name            | Result | Expected    | % Rec | Limits   |
| 1,1,2-Trichloroethane   | 4.75   | 5.00        | 95    | 60 - 140 |
| 1,2-Dibromoethane       | 4.43   | 5.00        | 89    | 60 - 140 |
| 1,2-Dichloroethane      | 4.48   | 5.00        | 90    | 60 - 140 |
| 1,2-Dichloropropane     | 4.45   | 5.00        | 89    | 60 - 140 |
| 1,4-Dichlorobenzene     | 4.46   | 5.00        | 89    | 60 - 140 |
| Benzene                 | 4.52   | 5.00        | 90    | 60 - 140 |
| Bromoform               | 4.41   | 5.00        | 88    | 60 - 140 |
| Carbon Tetrachloride    | 4.57   | 5.00        | 91    | 60 - 140 |
| cis-1,3-Dichloropropene | 4.33   | 5.00        | 87    | 60 - 140 |
| Tetrachloroethene (PCE) | 4.70   | 5.00        | 94    | 60 - 140 |
| Trichloroethene (TCE)   | 4.35   | 5.00        | 87    | 60 - 140 |
| Vinyl Chloride          | 4.73   | 5.00        | 95    | 60 - 140 |



# Columbia Analytical Services

# METALS COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

| Contract: R1002703   | · · · · · · · · · · · · · · · · · · · |                | SDG No.: 4D |
|----------------------|---------------------------------------|----------------|-------------|
| Lab Code:            | Case No.:                             |                | SAS No.:    |
| SOW No.: CLP ILM 5.3 |                                       |                |             |
| Sample ID            | •                                     | Lab Sample No. |             |
| DUPE A               |                                       | R1002703-002   |             |
| M-27D                |                                       | R1002703-003   |             |
| 13D                  |                                       | R1002703-004   |             |
| 13DD                 |                                       | R1002703-004D  | ·           |
| <u>13DS</u>          |                                       | R1002703-004s  |             |

| Were ICP interelement corrections applied?  | Yes/No YES       |
|---|------------------|
| Were ICP background corrections applied?<br>If yes-were raw data generated before | Yes/No YES       |
| application of background corrections?  | Yes/No <u>NO</u> |
| Commenter   |                  |

| Signature: Michael Perry Name: Michael Perry    |                               |  |
|---|-------------------------------|--|
|   | F. Common Name: Michael Perry |  |
| Date: <u>6/15/16</u> Title: Laboratory Director | Title: Laboratory Director    |  |

5

### METALS -1-INORGANIC ANALYSIS DATA SHEET

|                        | monoranic A | NAL I SIS DATA SHEET | SAMPLE NO.   |
|------------------------|-------------|----------------------|--------------|
| Contract: R1002703     |             |                      | 13D          |
| Lab Code:              | Case No.:   | SAS No.:             | SDG NO.: 4D  |
| Matrix (soil/water): W | ATER        | Lab Sample ID:       | R1002703-004 |
| Level (low/med): LOW   | <u></u>     | Date Received:       | 5/20/2010    |

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | С | Q | м |
|-----------|----------|---------------|---|---|---|
| 7440-47-3 | Chromium | 3.4           | J |   | P |

| Color Before: | COLORLESS | Clarity Before: | CLEAR    | Texture:   |
|---------------|-----------|-----------------|----------|------------|
| Color After:  | COLORLESS | Clarity After:  | CLEAR    | Artifacts: |
| Comments:     |           |                 | <u>.</u> |            |
| _             |           |                 |          |            |

### METALS -1-INORGANIC ANALYSIS DATA SHEET

|                         | mono      | ANC ANALISIS DATA SHEET | SAMPLE       | NO. |
|-------------------------|-----------|-------------------------|--------------|-----|
| Contract: R1002703      |           |                         | DUPE A       |     |
| Lab Code:               | Case No.: | SAS No.:                | SDG NO.:     | 4D  |
| Matrix (soil/water): WA | TER       | Lab Sample ID:          | R1002703-002 |     |
| Level (low/med): LOW    |           | Date Received:          | 5/20/2010    |     |

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | С | Q | м |
|-----------|----------|---------------|---|---|---|
| 7440-47-3 | Chromium | 0.861         | J |   | P |

| Color Before: | COLORLESS | Clarity Before: | CLEAR    | Texture:   |
|---------------|-----------|-----------------|----------|------------|
| Color After:  | COLORLESS | Clarity After:  | CLEAR    | Artifacts: |
| Comments:     |           |                 | <u> </u> |            |
|               |           |                 |          |            |
|               | ····      |                 |          |            |

.

# METALS -1-INORGANIC ANALYSIS DATA SHEET

|                            | HOROMULE ANALISIS DATA SHEET | SAMPLE NO.   |
|----------------------------|------------------------------|--------------|
| Contract: R1002703         |                              | M-27D        |
| Lab Code: Case No          | SAS No.:                     | SDG NO.: 4D  |
| Matrix (soil/water): WATER | Lab Sample ID:               | R1002703-003 |
| Level (low/med): LOW       | Date Received:               | 5/20/2010    |

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | c | Q        | м |
|-----------|----------|---------------|---|----------|---|
| 7440-47-3 | Chromium | 1.1           | J | <u> </u> | P |

| Color Before: | COLORLESS | Clarity Before: | CLEAR   | Texture:   |
|---------------|-----------|-----------------|---------|------------|
| Color After:  | COLORLESS | Clarity After:  | CLEAR   | Artifacts: |
| Comments:     |           |                 |         |            |
|               | ·····     |                 |         |            |
|               |           | ·               | <u></u> |            |

# METALS

-3-

### BLANKS

Contract: R1002703

Lab Code: \_\_\_\_\_ Case No.: \_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG NO.: 4D

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

|          | Initial<br>Calib.<br>Blank |     | Continuing Calibration<br>Blank (ug/L) |      |     |      |      | Preparation<br>Blank |        |     |   |        |
|----------|----------------------------|-----|--|------|-----|------|------|----------------------|--------|-----|---|--------|
| Analyte  | (ug/L)                     | С   | 1                                      | С    | 2   | С    | 3    | с                    | DIAIIK | C   |   | м      |
| Chromium | 0.42                       | 3 ប | 0.42                                   | 23 0 | 0.4 | 23 0 | 0.42 | 23 0                 | 0.423  | ן ט | İ | '<br>? |

### METALS -5A-TE SAMPLE DECONTRI

|                                 |           |          |       | SAMPLE NO  | •   |
|---------------------------------|-----------|----------|-------|------------|-----|
| Contract: R1002703              |           |          |       | 13DS       |     |
| Lab Code:                       | Case No.: | SAS No.: |       | SDG NO.:   | 4D  |
| Matrix (soil/water):            | WATER     |          | Level | (low/med): | LOW |
| <pre>% Solids for Sample:</pre> | 100.0     |          |       |            |     |

|          | Concent             | tration Units (u              | g/L or | mg/kg dry weig        | ht) | : UG/L              | •  |   |   |
|----------|---------------------|-------------------------------|--------|-----------------------|-----|---------------------|----|---|---|
| Analyte  | Control<br>Limit %R | Spiked Sample<br>Result (SSR) | с      | Sample<br>Result (SR) | C   | Spike<br>Added (SA) | %R | Q | м |
| Chromium | 75 - 125            | 199.                          | 00     | 3.40                  |     | 200.0               | 98 |   | P |

### METALS -5B-

### POST DIGEST SPIKE SAMPLE RECOVERY

|                            |           |     | SAMPLE NO.           |
|----------------------------|-----------|-----|----------------------|
|                            |           |     | 13DA                 |
| Contract: R10027           | 03        |     |                      |
| Lab Code:                  | Case No.: | SAS | SDG NO.: 4D          |
| Matrix (soil/water): WATER |           |     | Level (low/med): LOW |
|                            |           |     |                      |

Concentration Units: ug/L

| Analyte  | Control<br>Limit %R | Spiked<br>Result | Sample<br>(SSR) | c | Sample<br>Result (SR) | С | Spike<br>Added(SA) | %R | Q | M |
|----------|---------------------|------------------|-----------------|---|-----------------------|---|--------------------|----|---|---|
| Chromium | 1                   |                  | 199.00          |   | 3.40                  | J | 200.0              | 98 |   | P |

### METALS -6-DUPLICATES

|                                 |           | SAMPLE NO.                    |
|---------------------------------|-----------|-------------------------------|
| Contract: R1002703              |           | 13DD                          |
| Lab Code:                       | Case No.: | SAS No.: SDG NO.: 4D          |
| Matrix (soil/water):            | WATER     | Level (low/med): LOW          |
| <pre>% Solids for Sample:</pre> | 100.0     | % Solids for Duplicate: 100.0 |

|          | Concentra        | tion Units (ug/L | or mg/k | g dry weight): | UG/    | L - |            |   |
|----------|------------------|------------------|---------|----------------|--------|-----|------------|---|
| Analyte  | Control<br>Limit | Sample (S)       | с       | Duplicate (D)  | с      | RPD | Q          | м |
| Chromium |                  | 3.4              | 0 3 1   |                | 3.29 J | 3   | <u>+</u> ! | P |

1

ì

# METALS

-7-

# LABORATORY CONTROL SAMPLE

| Contract:  | R1002703  |           |          |             |
|------------|-----------|-----------|----------|-------------|
| Lab Code:  |           | Case No.: | SAS No.: | SDG NO.: 4D |
| Solid LCS  | Source:   |           |          |             |
| Aqueous LC | S Source: | CPI       |          |             |
|            |           |           |          |             |

|          | Aqueous | (ug/L) |    |      | Soli  | d (mg | /kg)   |    |
|----------|---------|--------|----|------|-------|-------|--------|----|
| Analyte  | True    | Found  | %R | True | Found | C     | Limits | %R |
| Chromium | 200     | 196    | 98 | ·    | ]     |       | ······ |    |

#### Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:WaterSample Name:DUPE ALab Code:R1002703-002

 Service Request:
 R1002703

 Date Collected:
 5/19/10

 Date Received:
 5/20/10

Basis: NA

#### Chromium, Hexavalent (Colorimetric)

| Analyte Name         | Method | Result Q | Units | MRL   | Dilution Date Date<br>Factor Extracted Analyze | ed   |
|----------------------|--------|----------|-------|-------|--|------|
| Chromium, Hexavalent | 7196A  | 0.010 U  | mg/L  | 0.010 | 1 NA 5/20/10 1                                 | 0:41 |



### Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. |
|----------------|---|
| Project:       | GE MRFA/138165                            |
| Sample Matrix: | Water                                     |
| Sample Name:   | M-27D                                     |
| Lab Code:      | R1002703-003                              |

Service Request: R1002703 Date Collected: 5/19/10 1330 Date Received: 5/20/10

Basis: NA

### Chromium, Hexavalent (Colorimetric)

| Analyte Name         | Method | Result Q | Units | MRL   | Dilution Date Date<br>Factor Extracted Analyzed |
|----------------------|--------|----------|-------|-------|---|
| Chromium, Hexavalent | 7196A  | 0.010 U  | mg/L  | 0.010 | 1 NA 5/20/10 10:41                              |



#### Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:WaterSample Name:13DLab Code:R1002703-004

Service Request: R1002703 Date Collected: 5/19/10 1215 Date Received: 5/20/10

Basis: NA

## Chromium, Hexavalent (Colorimetric)

| Analyte Name         | Method | Result Q | Units | MRL   | Dilution Date Date<br>Factor Extracted Analyzed |
|----------------------|--------|----------|-------|-------|---|
| Chromium, Hexavalent | 7196A  | 0.010 U  | mg/L  | 0.010 | 1 NA 5/20/10 10:41                              |



### Analytical Report

| Client:                   | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|---------------------------|---|---------------------------|
| Project:                  | GE MRFA/138165                            | Date Collected: NA        |
| Sample Matrix:            | Water                                     | Date Received: NA         |
| Sample Name:<br>Lab Code: | Method Blank<br>R1002703-MB               | Basis: NA                 |

## Chromium, Hexavalent (Colorimetric)

| Analyte Name         | Method | Result Q | Units | MRL   | Dilution Date<br>Factor Extracted | Date<br>Analyzed |
|----------------------|--------|----------|-------|-------|-----------------------------------|------------------|
| Chromium, Hexavalent | 7196A  | 0.010 U  | mg/L  | 0.010 | 1 NA 5                            | /20/10 10:41     |



### QA/QC Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Requ |
|----------------|---|--------------|
| Project:       | GE MRFA/138165                            | Date Collec  |
| Sample Matrix: | Water                                     | Date Recei   |

Service Request: R1002703 Date Collected: 5/19/10 Date Received: 5/20/10 Date Analyzed: 5/20/10

## Duplicate Sample Summary Chromium, Hexavalent (Colorimetric)

| Sample Name:<br>Lab Code: | 13D<br>R1002703-004 |         |                  |         | Units: mg/L<br>Basis: NA        |     |              |
|---------------------------|---------------------|---------|------------------|---------|---------------------------------|-----|--------------|
| Analyte Name              | Meth                | od MRL  | Sample<br>Result | -       | te Sample<br>703-DUP<br>Average | RPD | RPD<br>Limit |
| Chromium, Hexavaler       | nt 71964            | A 0.010 | 0.010 U          | 0.010 U | NC                              | NC  | 20           |

QA/QC Report

**Client:** Shaw Environmental & Infrastructure, Inc. **Project:** GE MRFA/138165 Sample Matrix: Water

### **Matrix Spike Summary** Chromium, Hexavalent (Colorimetric)

Sample Name: 13D Lab Code: R1002703-004

Analytical Method: 7196A

|                      | Sample | R      | % Rec  |       |                 |
|----------------------|--------|--------|--------|-------|-----------------|
| Analyte Name         | Result | Result | Amount | % Rec | Limits          |
| Chromium, Hexavalent | ND     | 0.0933 | 0.100  | 93    | 85 <b>-</b> 115 |

**Comments:** 



Units: mg/L

Service Request: R1002703

Date Collected: 5/19/10

Date Received: 5/20/10 Date Analyzed: 5/20/10

Basis: NA

QA/QC Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:Water

Service Request: R1002703 Date Analyzed: 5/20/10

### Lab Control Sample Summary Chromium, Hexavalent (Colorimetric)

Units: mg/L Basis: NA

|                      |        | Lab (  |           |       |          |
|----------------------|--------|--------|-----------|-------|----------|
|                      |        | R1     | 002703-LC | S     | % Rec    |
| Analyte Name         | Method | Result | Expected  | % Rec | Limits   |
| Chromium, Hexavalent | 7196A  | 0.104  | 0.100     | 104   | 92 - 110 |

Comments:

SuperSet Reference: 10-0000143525 rev 00



# APPENDIX C

# DATA VALIDATION REPORT

# **Data Validation Services**

120 Cobble Creek Road P.O. Box 208 North Creek, NY 12853

> Phone 518-251-4429 Facsimile 518-251-4428

July 20, 2010

Brian Neumann Shaw Environmental 13 British American Blvd. Latham, NY 12110

RE: Validation of GE MRFA Malta Site Data Packages CAS Sub No. R1002703

Dear Mr. Neumann:

Review has been completed for the data packages generated by Columbia Analytical Services (CAS), pertaining to groundwater samples collected 05/19/10 and 05/20/10 at the GE Malta Site. Eight samples and a field duplicate, a cooler blank and two trip blanks were processed for site-specific low level volatiles. Two of the samples and the field duplicate were also analyzed for total and hexavalent chromium. Methodologies utilized include those of the USEPA OLC02.1, EPA CLP ILM, and USEPA SW846 7196.

Data validation was performed with guidance from the USEPA CLP National Functional Guidelines for Organic and Inorganic Data Review and the USEPA SOPs HW-2 and HW-6, with consideration for the specific methodologies. The following items were reviewed:

- \* Data Completeness
- \* Custody Documentation
- \* Holding Times
- \* Surrogate and Internal Standard Recoveries
- \* Matrix Spike Recoveries/Duplicate Correlations
- \* Field Duplicate Correlations
- \* Preparation/Calibration Blanks
- \* Control Spike/Laboratory Control Samples
- \* Instrumental Tunes
- \* Calibration/CRI Standards
- \* Instrument IDLs
- \* ICP Serial Dilutions
- \* Method Compliance
- \* Sample Result Verification

The items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with protocol requirements.

**In summary**, sample processing was conducted primarily with compliance to protocol requirements and with adherence to quality criteria. Sample results are usable either as reported, or with minor qualification of the acetone results, including edit to non-detection. These are discussed in the following analytical sections.

Copies of laboratory identification summaries and case narratives are attached to this text, and should be reviewed in conjunction with this report. Sample results forms are also submitted, reflecting the qualifiers in red ink.

### Low Level Volatile Analyses

The detected results for acetone are considered external contamination, and are edited to reflect non-detection, as indicated by the presence in the associated trip and method blanks.

Matrix spikes of DUPEA show acceptable accuracy and precision for the twelve analytes evaluated.

Volatile blind field duplicate correlations for M-27D are within validation guidelines.

Acetone exhibits low relative response factors (RRFs) (inherent with the methodology) in all of the project calibration standards. The usability of those data is evidenced by spike recoveries and calibration standard responses, but the reporting limits and detected values for those compounds in the specific associated samples and trip/cooler blanks should be considered estimated ("UJ" or "J" qualifiers), possibly biased low.

Holding times were met, and surrogate and internal standard responses are within required limits.

Two of the samples were analyzed at initial dilution due to target analyte concentrations. This results in elevated reporting limits for analytes not detected in the affected samples.

### **Total Chromium Analyses**

The matrix spike/lab duplicate accuracy and precision determinations were performed on 13D, and show recovery and duplicate correlation within recommended limits. The field duplicate evaluation for M-27D also shows good correlation.

The serial dilution evaluation of 13D is not applicable due to low sample concentrations.

Instrument performance was acceptable. Reported results are substantiated by the raw data, and generated in compliance with required protocols. Quality control parameter results meet validation requirements.

### Hexavalent Chromium Analyses

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to the procedure. All were found to be acceptable unless noted below.

The matrix spike/laboratory duplicate accuracy and precision determinations were performed on 13D, and show recovery and duplicate correlation within recommended limits. The field duplicate correlations for 13D were within guidelines.

Holding times were met. Reported results are substantiated by the raw data, and generated in compliance with required protocols.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

## VALIDATION DATA QUALIFIER DEFINITIONS

- **U** The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- **UJ** The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
- **NJ** The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
  - **R** The data are unusable. The analyte may or may not be present.
- **EMPC** The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

# CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVE

| Sheet    |
|----------|
| /Login   |
| Form     |
| Batching |
| SP/CLP B |
| Ž        |
| CAS      |

| Client Proj #: 138165<br>Submission: R1002703 | 65<br>2703                       | Batch Complete: Yes<br>Diskette Requested: No | : Yes<br>sted: No          |         | Date Revised:<br>Date Due: 6/11/10 | 1/10     |        |                  |
|---|----------------------------------|---|----------------------------|---------|------------------------------------|----------|--------|------------------|
| Client: Shaw                                  | Shaw Environmental & Infrastruct | Date: 6/15/10                                 |                            | ł       | Protocol: CLP                      |          |        |                  |
| :de   | GER                              | Custody Seal: Present/Absent:                 | resent/Absent:             | 0,      | g No.:                             |          |        |                  |
| Project: GE N                                 | GE MRFA                          | Chain of Custody:                             | ly: Present/Absent:        |         | SDG #: 4                           | 4D       |        |                  |
| CAS . Inh #                                   | Client/EPA ID                    | Matrix  | Reditested Parameters      | Date    | Date                               | Hd       | %      | Remarks          |
|   |                                  |   |                            | Sampled | Received                           | (Solids) | Solids | Sample Condition |
| R1002703-001                                  | 4D                               | Water   | CLP-VOA OLC02.1            | 5/19/10 | 5/20/10                            |          |        |                  |
| R1002703-002                                  | DUPE A                           | Water   | 7196A, CLP-METALS ILM05.3, | 5/19/10 | 5/20/10                            |          |        |                  |
|   |                                  |   | CLP-VOA OLC02.1            |         |                                    |          |        |                  |
| R1002703-003                                  | M-27D                            | Water   | 7196A, CLP-METALS ILM05.3, | 5/19/10 | 5/20/10                            |          |        |                  |
|   |                                  |   | CLP-VOA OLC02.1            |         |                                    |          |        |                  |
| R1002703-004QC                                | 13D                              | Water   | 7196A, CLP-METALS ILM05.3  | 5/19/10 | 5/20/10                            |          |        |                  |
| R1002703-005                                  | M-24DR                           | Water   | CLP-VOA OLC02.1            | 5/19/10 | 5/20/10                            |          |        |                  |
| R1002703-006                                  | M-25D                            | Water   | CLP-VOA OLC02.1            | 5/19/10 | 5/20/10                            |          |        |                  |
| R1002703-007                                  | M-29                             | Water   | CLP-VOA OLC02.1            | 5/19/10 | 5/20/10                            |          |        |                  |
| R1002703-008                                  | TRIP BLANK                       | Water   | CLP-VOA OLC02.1            | 5/19/10 | 5/20/10                            |          |        |                  |
| R1002703-009                                  | COOLER BLANK                     | Water   | CLP-VOA OLC02.1            | 5/20/10 | 5/20/10                            |          |        |                  |
| R1002703-010QC                                | 14D                              | Water   | CLP-VOA OLC02.1            | 5/20/10 | 5/21/10                            |          |        |                  |
| R1002703-011                                  | 11D                              | Water   | CLP-VOA OLC02.1            | 5/20/10 | 5/21/10                            |          |        |                  |
| R1002703-012                                  | DGC-4S                           | Water   | CLP-VOA OLC02.1            | 5/20/10 | 5/21/10                            |          |        |                  |
| R1002703-013                                  | DGC-3S                           | Water   | CLP-VOA OLC02.1            | 5/20/10 | 5/21/10                            |          |        |                  |
| R1002703-014                                  | Trip Blank                       | Water   | CLP-VOA OLC02.1            | 5/20/10 | 5/21/10                            |          |        |                  |

8888 LI

### CASE NARRATIVE

### COMPANY: Shaw Environmental GE MRFA Project #138165 SERVICE REQUEST #: R1002703

Shaw samples were collected on 05/19-20/10 and received at CAS on 05/20-21/10 in good condition.

### INORGANICS

Three water samples were analyzed for a site specific list of inorganics. Please see attached data pages for method numbers.

Site specific QC was performed on 13D. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

All samples were analyzed within required holding times except as mentioned above.

No other analytical or QC problems were encountered.

### VOLATILE ORGANICS

Thirteen water samples and one cooler blank were analyzed for OLC 2.1 Volatiles by CLP methodology.

All the initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within QC limits.

All surrogate standard recoveries were within QC limits.

Site specific QC was performed on DUPE A and 14D. All MSD recoveries were within limits except Trichloroethene for DUPE A and has been flagged with an "\*". All MS and Reference spike recoveries were within limits. All RPD's were within limits.

The Laboratory blanks associated with these samples were free of contamination except the 05/26/10 and 05/27/10 had a low level hit for Acetone. All affected data has been flagged with a "B".

All samples were analyzed within required holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

**QUALIFIED SAMPLE RESULTS FORMS** 

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:WaterSample Name:4DLab Code:R1002703-001

Service Request: R1002703 Date Collected: 5/19/10 1125 Date Received: 5/20/10

> Units: μg/L Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|                                       |              |       |       | Dilution | Date      |               | Extraction Analysis |
|---------------------------------------|--------------|-------|-------|----------|-----------|---------------|---------------------|
| Analyte Name                          | Result Q     | MRL   | MDL   | Factor   | Extracted | Analyzed      | Lot Lot Note        |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U        | 1.0   | 0.14  | 1        | NA        | 5/26/10 16:17 |                     |
| 1,1,2,2-Tetrachloroethane             | 1.0 U        | 1.0   | 0.12  | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1,1,2-Trichloroethane                 | 1.0 U        | 1.0   | 0.11  | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1.1-Dichloroethane (1,1-DCA)          | 1.0 U        | 1.0   | 0.11  | 1        | NA        | 5/26/10 16:17 |                     |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U        | 1.0   | 0.17  | 1        | NA        | 5/26/10 16:17 |                     |
| 1,2,3-Trichlorobenzene                | 1.0 U        | 1.0   | 0.18  | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1.2.4-Trichlorobenzene                | 1.0 U        | 1.0   | 0.13  | 1        | NA        | 5/26/10 16:17 |                     |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U        | 1.0   | 0.34  | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1,2-Dibromoethane                     | 1.0 U        | 1.0   | 0.14  | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1.2-Dichloroethane                    | 1.0 U        | 1.0   | 0.057 | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1,2-Dichlorobenzene                   | 1.0 U        | 1.0   | 0.089 | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1,2-Dichloropropane                   | 1.0 U        | 1.0   | 0.15  | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1,3-Dichlorobenzene                   | 1.0 U        | 1.0   | 0.092 | 1        | NA        | 5/26/10 16:17 | 202273              |
| 1,4-Dichlorobenzene                   | 1.0 U        | 1.0   | 0.085 | 1        | NA        | 5/26/10 16:17 | 202273              |
| 2-Butanone (MEK)                      | 5.0 U        | 5.0   | 0.75  | 1        | NA        | 5/26/10 16:17 | 202273              |
| 2-Hexanone                            | 5.0 U        | 5.0   | 0.51  | 1        | NA        | 5/26/10 16:17 |                     |
| 4-Methyl-2-pentanone                  | 5.0 U        | 5.0   | 0.56  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Acetone                               | 5.0 1.6-BJ ( | J 5.0 | 0.69  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Benzene                               | 1.0 U        | 1.0   | 0.098 | 1        | NA        | 5/26/10 16:17 | 202273              |
| Bromochloromethane                    | 1.0 U        | 1.0   | 0.18  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Bromodichloromethane                  | 1.0 U        | 1.0   | 0.15  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Bromoform                             | 1.0 U        | 1.0   | 0.14  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Bromomethane                          | 1.0 U        | 1.0   | 0.12  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Carbon Disulfide                      | 1.0 U        | 1.0   | 0.16  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Carbon Tetrachloride                  | 1.0 U        | 1.0   | 0.12  | 1        | NA        | 5/26/10 16:17 | 7 202273            |
| Chlorobenzene                         | 1.0 U        | 1.0   | 0.14  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Chloroethane                          | 1.0 U        | 1.0   | 0.21  | 1        | NA        | 5/26/10 16:17 | 202273              |
| Chloroform                            | 1.0 U        | 1.0   | 0.15  | 1        | NA        | 5/26/10 16:17 | 7 202273            |
| Chloromethane                         | 1.0 U        | 1.0   | 0.12  | 1        | NA        | 5/26/10 16:17 | 7 202273            |
| cis-1,2-Dichloroethene                | 1.0 U        | 1.0   | 0.11  | 1        | NA        | 5/26/10 16:17 |                     |
| cis-1,3-Dichloropropene               | 1.0 U        | 1.0   | 0.079 | 1        | NA        | 5/26/10 16:17 | 7 202273            |
| Dibromochloromethane                  | 1.0 U        | 1.0   | 0.13  | 1        | NA        | 5/26/10 16:17 |                     |
| Ethylbenzene                          | 1.0 U        | 1.0   | 0.13  | 1        | NA        | 5/26/10 16:17 | 7 202273            |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/19/10 1125           Date Received:         5/20/10 |
|---------------------------------------|--|---|
| Sample Name:                          | 4D   | Units: µg/L   |
| Lab Code:                             | R1002703-001   | Basis: NA   |

# Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      |               | Extraction | v      |      |
|---|----------|-----|-------|----------|-----------|---------------|------------|--------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot    | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 5    |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 5    |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | }    |
| Toluenc                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 3    |
| trans-1.2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 3    |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 3    |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0,16  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 3    |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 3    |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 16:17 | 7          | 202273 | 3    |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 90   | 80-120            | 5/26/10 16:17      |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrast<br>GE MRFA/138165<br>Water | ructure, Inc. |        |                                     | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |  |
|---------------------------------------|---|---------------|--------|-------------------------------------|---|--------------------|--|
|                                       |   |               |        | ipounds (TIC)<br>Compounds by GC/MS |   |                    |  |
| Sample Name:<br>Lab Code:             | 4D<br>R1002703-001                                      |               |        |                                     | Units:<br>Basis:  |                    |  |
| Analytical Method:                    | CLP-VOA OLC02.1   |               |        |                                     |   |                    |  |
| CAS # Anal                            | yte Name  | RT            | Result | Q                                   |   |                    |  |
| · · · · · · · · · · · · · · · · · · · | No Tentatively Identified Compounds Detected.           |               |        |                                     |   |                    |  |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:WaterSample Name:DUPE ALab Code:R1002703-002

Service Request: R1002703 Date Collected: 5/19/10 Date Received: 5/20/10

> Units: µg/L Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| -                                     |        |     |     |       | Dilution | Date      |               | Extraction | -      |       |
|---------------------------------------|--------|-----|-----|-------|----------|-----------|---------------|------------|--------|-------|
| Analyte Name                          | Result | Q   | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        |        | Note  |
| 1,1,1-Trichloroethane (TCA)           | 1.0    | U   | 1.0 | 0.14  | 1        | NA        | 5/26/10 16:54 |            | 202273 |       |
| 1,1,2,2-Tetrachloroethane             | 1.0    |     | 1.0 | 0.12  | 1        | NA        | 5/26/10 16:54 |            | 202273 |       |
| 1,1,2-Trichloroethane                 | 1.0    | U   | 1.0 | 0.11  | 1        | NA        | 5/26/10 16:54 |            | 202273 | }<br> |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0    | U   | 1.0 | 0.11  | 1        | NA        | 5/26/10 16:54 |            | 202273 |       |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0    | U   | 1.0 | 0.17  | 1        | NA        | 5/26/10 16:54 |            | 202273 |       |
| 1,2,3-Trichlorobenzene                | 1.0    | U   | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:54 | ·          | 202273 | 3     |
| 1,2,4-Trichlorobenzene                | 1.0    | U   | 1.0 | 0.13  | 1        | NA        | 5/26/10 16:54 | ł          | 202273 |       |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0    | U   | 1.0 | 0.34  | 1        | NA        | 5/26/10 16:54 | ŀ          | 202273 |       |
| 1,2-Dibromoethane                     | 1.0    | U   | 1.0 | 0.14  | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| 1.2-Dichloroethane                    | 1.0    | U   | 1.0 | 0.057 | 1        | NA        | 5/26/10 16:54 | 1          | 202273 |       |
| 1,2-Dichlorobenzene                   | 1.0    |     | 1.0 | 0.089 | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| 1,2-Dichloropropane                   | 1.0    |     | 1.0 | 0.15  | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| 1,3-Dichlorobenzene                   | 1.0    | U   | 1.0 | 0.092 | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| 1,4-Dichlorobenzene                   | 1.0    |     | 1.0 | 0.085 | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| 2-Butanone (MEK)                      | 5.0    |     | 5.0 | 0.75  | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| 2-Hexanone                            | 5.0    | U   | 5.0 | 0.51  | 1        | NA        | 5/26/10 16:54 | 1          | 202273 |       |
| 4-Methyl-2-pentanone                  | 5.0    |     | 5.0 | 0.56  | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| Acetone                               | 5.0    | UUJ | 5.0 | 0.69  | 1        | NA        | 5/26/10 16:54 | 1          | 202273 | 3     |
| Benzene                               | 1.0    | U   | 1.0 | 0.098 | 1        | NA        | 5/26/10 16:54 | 1          | 202272 | 3     |
| Bromochloromethane                    | 1.0    | U   | 1.0 | 0.18  | 1        | NA        | 5/26/10 16:54 | 4          | 202273 | 3     |
| Bromodichloromethane                  | 1.0    | U   | 1.0 | 0.15  | 1        | NA        | 5/26/10 16:54 | 4          | 202273 | 3     |
| Bromoform                             | 1.0    | U   | 1.0 | 0.14  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| Bromomethane                          | 1.0    | U   | 1.0 | 0.12  | 1        | NA        | 5/26/10 16:54 | 4          | 202273 | 3     |
| Carbon Disulfide                      | 1.0    | U   | 1.0 | 0.16  | 1        | NA        | 5/26/10 16:54 | 4          | 202273 | 3     |
| Carbon Tetrachloride                  | 4.8    |     | 1.0 | 0.12  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| Chlorobenzene                         | 1.0    | U   | 1.0 | 0.14  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| Chloroethane                          | 1.0    | U   | 1.0 | 0.21  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| Chloroform                            | 1.0    | U   | 1.0 | 0.15  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| Chloromethane                         | 1.0    | U   | 1.0 | 0.12  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| cis-1,2-Dichloroethene                | 1.0    |     | 1.0 | 0.11  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| cis-1,3-Dichloropropene               | 1.0    | U   | 1.0 | 0.079 | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| Dibromochloromethane                  | 1.0    |     | 1.0 | 0.13  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |
| Ethylbenzene                          | 1.0    |     | 1.0 | 0.13  | 1        | NA        | 5/26/10 16:54 | 4          | 20227  | 3     |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703 |
|----------------|---|---------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10   |
| Sample Matrix: | Water                                     | Date Received: 5/20/10    |
| Sample Name:   | DUPE A                                    | Units: µg/L               |
| Lab Code:      | R1002703-002                              | Basis: NA                 |

# Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

| Analyte Name                            | Result Q | MRL | MDL   | Dilution<br>Factor | Date<br>Extracted |               | Extraction A<br>Lot | -      | is<br>Note |
|---|----------|-----|-------|--------------------|-------------------|---------------|---------------------|--------|------------|
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 16:54 |                     | 202273 |            |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1                  | NA                | 5/26/10 16:54 | <b>i</b> 1          | 202273 |            |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 16:54 | ٤                   | 202273 | ,          |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1                  | NA                | 5/26/10 16:54 | 1                   | 202273 |            |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1                  | NA                | 5/26/10 16:54 | 1                   | 202273 | I          |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1                  | NA                | 5/26/10 16:54 | 1                   | 202273 |            |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1                  | NA                | 5/26/10 16:54 | 4                   | 202273 | i          |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 16:54 | 4                   | 202273 | ,          |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1                  | NA                | 5/26/10 16:54 | 4                   | 202273 | ;          |
| Trichloroethene (TCE)                   | 10       | 1.0 | 0.16  | 1                  | NA                | 5/26/10 16:54 | 4                   | 202273 | \$         |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 16:54 | 4                   | 202273 | ;          |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1                  | NA                | 5/26/10 16:54 | 4                   | 202273 | J          |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed O | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 91   | 80-120            | 5/26/10 16:54      |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix:         | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |  |  |
|---|--|---|--------------------|--|--|
|   | Tentatively Identified Cor<br>Low Level Water Volatile Organic       |   |                    |  |  |
| Sample Name:<br>Lab Code:                     | DUPE A<br>R1002703-002   | Units:<br>Basis:  | μg/L<br>NA         |  |  |
| Analytical Method:                            | CLP-VOA OLC02.1  |   |                    |  |  |
| CAS # Anal                                    | yte Name RT Result   | Q   |                    |  |  |
| No Tentatively Identified Compounds Detected. |  |   |                    |  |  |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Service Request:R1002703Project:GE MRFA/138165Date Collected:5/19/10 1330Sample Matrix:WaterDate Received:5/20/10Sample Name:M-27DUnits:µg/LLab Code:R1002703-003Basis:NA

### Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|                                       |        |        |     |       | Dilution | Date      | Date          | <b>Extraction Analys</b> | sis  |
|---------------------------------------|--------|--------|-----|-------|----------|-----------|---------------|--------------------------|------|
| Analyte Name                          | Result | Q      | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot                  | Note |
| 1,1,1-Trichloroethane (TCA)           | 1.0    |        | 1.0 | 0.14  | 1        | NA        | 5/26/10 17:31 |                          |      |
| 1,1,2,2-Tetrachloroethane             | 1.0    |        | 1.0 | 0.12  | 1        | NA        | 5/26/10 17:31 |                          |      |
| 1,1,2-Trichloroethane                 | 1.0    | U      | 1.0 | 0.11  | 1        | NA        | 5/26/10 17:31 | 20227                    | 3    |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0    |        | 1.0 | 0.11  | 1        | NA        | 5/26/10 17:31 |                          |      |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0    |        | 1.0 | 0.17  | 1        | NA        | 5/26/10 17:31 |                          |      |
| 1,2,3-Trichlorobenzene                | 1.0    | U      | 1.0 | 0.18  | 1        | NA        | 5/26/10 17:31 | 20227                    | 3    |
| 1,2,4-Trichlorobenzene                | 1.0    | U      | 1.0 | 0.13  | 1        | NA        | 5/26/10 17:31 |                          |      |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0    | U      | 1.0 | 0.34  | 1        | NA        | 5/26/10 17:31 | 20227                    | 3    |
| 1,2-Dibromoethane                     | 1.0    | U      | 1.0 | 0.14  | 1        | NA        | 5/26/10 17:31 | 20227                    | 3    |
| 1.2-Dichloroethane                    | 1.0    | U      | 1.0 | 0.057 | 1        | NA        | 5/26/10 17:32 | 20227                    | 3    |
| 1,2-Dichlorobenzene                   | 1.0    | U      | 1.0 | 0.089 | 1        | NA        | 5/26/10 17:32 | l 20227                  | 3    |
| 1,2-Dichloropropane                   | 1.0    | U      | 1.0 | 0.15  | 1        | NA        | 5/26/10 17:32 | l 20227                  | 3    |
| 1,3-Dichlorobenzene                   | 1.0    | U      | 1.0 | 0.092 | 1        | NA        | 5/26/10 17:3  |                          |      |
| 1,4-Dichlorobenzene                   | 1.0    | U      | 1.0 | 0.085 | 1        | NA        | 5/26/10 17:32 |                          |      |
| 2-Butanone (MEK)                      | 5.0    | U      | 5.0 | 0.75  | 1        | NA        | 5/26/10 17:3  | 1 20227                  | 3    |
| 2-Hexanone                            | 5.0    |        | 5.0 | 0.51  | 1        | NA        | 5/26/10 17:3  |                          |      |
| 4-Methyl-2-pentanone                  | 5.0    |        | 5.0 | 0.56  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Acetone 5,0                           | 0.99   | -BF UJ | 5.0 | 0.69  | 1        | NA        | 5/26/10 17:3  | 1 20227                  | 3    |
| Benzene                               | 1.0    |        | 1.0 | 0.098 | 1        | NA        | 5/26/10 17:3  |                          |      |
| Bromochloromethane                    | 1.0    |        | 1.0 | 0.18  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Bromodichloromethane                  | 1.0    | U      | 1.0 | 0.15  | 1        | NA        | 5/26/10 17:3  | 1 20227                  | 3    |
| Bromoform                             | 1.0    |        | 1.0 | 0.14  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Bromomethane                          | 1.0    |        | 1.0 | 0.12  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Carbon Disulfide                      | 1.0    | U      | 1.0 | 0.16  | 1        | NA        | 5/26/10 17:3  | 1 20227                  | '3   |
| Carbon Tetrachloride                  | 4.2    |        | 1.0 | 0.12  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Chlorobenzene                         | 1.0    | U      | 1.0 | 0.14  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Chloroethane                          | 1.0    | U      | 1.0 | 0.21  | 1        | NA        | 5/26/10 17:3  | 1 20227                  | '3   |
| Chloroform                            | 1.0    |        | 1.0 | 0.15  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Chloromethane                         | 1.0    |        | 1.0 | 0.12  | 1        | NA        | 5/26/10 17:3  |                          |      |
| cis-1,2-Dichloroethene                | 1.0    | U      | 1.0 | 0.11  | 1        | NA        | 5/26/10 17:3  | 1 20227                  | '3   |
| cis-1,3-Dichloropropene               | 1.0    |        | 1.0 | 0.079 | 1        | NA        | 5/26/10 17:3  |                          |      |
| Dibromochloromethane                  | 1.0    |        | 1.0 | 0.13  | 1        | NA        | 5/26/10 17:3  |                          |      |
| Ethylbenzene                          | 1.0    | U      | 1.0 | 0.13  | 1        | NA        | 5/26/10 17:3  | 1 20227                  | 3    |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/19/10           Date Received:         5/20/10 |
|---------------------------------------|--|--|
| Sample Name:                          | M-27D  | Units: µg/L  |
| Lab Code:                             | R1002703-003   | Basis: NA  |

# Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

| Analyte Name                            | Result Q | MRL | MDL   | Dilution<br>Factor | Date<br>Extracted |               | Extraction<br>Lot | •      | is<br>Note |
|---|----------|-----|-------|--------------------|-------------------|---------------|-------------------|--------|------------|
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 17:31 | l                 | 202273 | ,          |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1                  | NA                | 5/26/10 17:31 | l                 | 202273 | j –        |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 17:31 | l                 | 202273 | )<br>      |
|   | 1.0 U    | 1.0 | 0.11  | 1                  | NA                | 5/26/10 17:31 | 1                 | 202273 | 3          |
| o-Xylene<br>Styrene                     | 1.0 U    | 1.0 | 0.096 | 1                  | NA                | 5/26/10 17:31 | 1                 | 202273 | 3          |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1                  | NA                | 5/26/10 17:32 | 1                 | 202273 | 3          |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1                  | NA                | 5/26/10 17:3  | 1                 | 202273 | 3          |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 17:3  | 1                 | 202273 | 3          |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1                  | NA                | 5/26/10 17:3  | 1                 | 202273 | 3          |
| Trichloroethene (TCE)                   | 9.3      | 1.0 | 0.16  | 1                  | NA                | 5/26/10 17:3  | 1                 | 202273 | 3          |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 17:3  | 1                 | 202273 | 3          |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1                  | NA                | 5/26/10 17:3  | 1                 | 202273 | 3          |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |
|----------------------|------|-------------------|--------------------|------|
| 4-Bromofluorobenzene | 94   | 80-120            | 5/26/10 17:31      |      |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water                      | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |
|---------------------------------------|---|---|--------------------|
|                                       | Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by G | C/MS  |                    |
| Sample Name:<br>Lab Code:             | M-27D<br>R1002703-003   | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1   |   |                    |
| CAS # Anal                            | lyte Name RT Result Q   |   |                    |
|                                       | No Tentatively Identified Compounds Detected.   |   |                    |

Analytical Report

Shaw Environmental & Infrastructure, Inc. **Client:** GE MRFA/138165 **Project:** Water Sample Matrix: Sample Name: M-24DR Lab Code: R1002703-005

Service Request: R1002703 **Date Collected:** 5/19/10 1045 Date Received: 5/20/10

> Units: µg/L Basis: NA

## Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

| Analyte Name         Result         Q         MRL         MDL         Factor         Extracted         Analyzed         Lot         Note           1,1,7:richloroethane         1.0         U         1.0         0.14         1         NA         5/27/10         15:44         202478           1,1,2:-Trichloroethane         1.0         U         1.0         0.11         1         NA         5/27/10         15:44         202478           1,1-Dichloroethane         1.0         U         1.0         0.11         1         NA         5/27/10         15:44         202478           1,2:3-Trichlorobenzene         1.0         U         1.0         0.13         1         NA         5/27/10         15:44         202478           1,2:Abromo-shelmorypane         1.0         U         1.0         0.34         1         NA         5/27/10         15:44         202478           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         5/27/10         15:44         202478           1,2-Dichloroethane         1.0         U         1.0         0.057         1         NA         5/27/10         15:44         202478           1,2-Dichl   |                                       |           |        |       | Dilution | Date      | Date          | Extraction | •      |      |
|---|---------------------------------------|-----------|--------|-------|----------|-----------|---------------|------------|--------|------|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | Analyte Name                          | Result Q  | MRL    | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot    | Note |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 1,1,1-Trichlorocthane (TCA)           | 1.0 U     | 1.0    | 0.14  | 1        | NA        | 5/27/10 15:44 |            | 202478 |      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 1,1,2,2-Tetrachloroethane             |           | 1.0    |       | 1        |           |               |            |        |      |
| 1.1-Dichloroethene (1,1-DCE)       1.0       U       1.0       0.17       1       NA       5/27/10       15:44       202478         1.2, 3-Trichlorobenzene       1.0       U       1.0       0.18       1       NA       5/27/10       15:44       202478         1.2, 1-Trichlorobenzene       1.0       U       1.0       0.13       1       NA       5/27/10       15:44       202478         1.2-Dibromos-achloropropane       1.0       U       1.0       0.14       1       NA       5/27/10       15:44       202478         1.2-Dichloroethane       1.0       U       1.0       0.057       1       NA       5/27/10       15:44       202478         1.2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/27/10       15:44       202478         1.2-Dichlorobenzene       1.0       U       1.0       0.057       1       NA       5/27/10       15:44       202478         1.3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/27/10       15:44       202478         2-Butanone       5.0       U       5.0       0.051       1       NA       5/27/10 <td>1,1,2-Trichloroethane</td> <td>1.0 U</td> <td>1.0</td> <td>0.11</td> <td>1</td> <td>NA</td> <td>5/27/10 15:44</td> <td></td> <td>202478</td> <td></td>  | 1,1,2-Trichloroethane                 | 1.0 U     | 1.0    | 0.11  | 1        | NA        | 5/27/10 15:44 |            | 202478 |      |
| 1.2,3-Trichlorobenzene1.0U1.00.181NA $5/27/10$ 15:442024781.2,4-Trichlorobenzene1.0U1.00.131NA $5/27/10$ 15:442024781.2-Dibromo-3-chloropropane1.0U1.00.341NA $5/27/10$ 15:442024781.2-Dibromoethane1.0U1.00.0571NA $5/27/10$ 15:442024781.2-Dichloroethane1.0U1.00.0571NA $5/27/10$ 15:442024781.2-Dichloroethane1.0U1.00.0571NA $5/27/10$ 15:442024781.2-Dichlorobenzene1.0U1.00.0921NA $5/27/10$ 15:442024781.3-Dichlorobenzene1.0U1.00.0921NA $5/27/10$ 15:442024781.3-Dichlorobenzene1.0U1.00.0921NA $5/27/10$ 15:442024782-Butanone5.0U5.00.511NA $5/27/10$ 15:442024782-Hexanone5.0U5.00.691NA $5/27/10$ 15:44202478Benzene1.0U1.00.0981NA $5/27/10$ 15:44202478Bromodichloromethane1.0U1.00.151NA $5/27/10$ 15:44202478Bromodichloromethane1.0U0.01.  | 1,1-Dichloroethane (1,1-DCA)          | 1.0 U     | 1.0    | 0.11  | 1        | NA        | 5/27/10 15:44 | ,          | 202478 |      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 1,1-Dichloroethene (1,1-DCE)          |           | 1.0    |       | 1        |           |               |            |        |      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | 1,2,3-Trichlorobenzene                | 1.0 U     | 1.0    | 0.18  | 1        | NA        | 5/27/10 15:44 | ł          | 202478 |      |
| $\begin{array}{c c} (DBCP) \\ 1,2-Dibromoethane & 1.0 U & 1.0 & 0.14 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 1,2-Dichloroothane & 1.0 U & 1.0 & 0.057 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 1,2-Dichlorobenzene & 1.0 U & 1.0 & 0.089 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 1,2-Dichlorobenzene & 1.0 U & 1.0 & 0.092 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 1,3-Dichlorobenzene & 1.0 U & 1.0 & 0.092 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 1,3-Dichlorobenzene & 1.0 U & 1.0 & 0.085 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 1,4-Dichlorobenzene & 1.0 U & 1.0 & 0.085 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 2-Butanone (MEK) & 5.0 U & 5.0 & 0.75 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 2-Hexanone & 5.0 U & 5.0 & 0.51 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ 4-Methyl-2-pentanone & 5.0 U & 5.0 & 0.56 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Acctone & 5_{\mathcal{O}} & 1_{\mathcal{A}} - \mathcal{B} + \mathcal{U} & 5.0 & 0.69 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Bromochloromethane & 1.0 U & 1.0 & 0.098 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Bromochloromethane & 1.0 U & 1.0 & 0.18 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Bromochloromethane & 1.0 U & 1.0 & 0.14 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Bromochloromethane & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Bromochloromethane & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Bromochloromethane & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.15 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.15 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.15 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.12 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1.0 & 0.13 & 1 & NA & 5/27/10 & 15:44 & 202478 \\ Chlorobenzene & 1.0 U & 1$ | 1,2,4-Trichlorobenzene                | 1.0 U     | 1.0    |       | 1        |           | 5/27/10 15:44 | ļ          | 202478 |      |
| 1,2-Dibromoethane1.0U1.00.141NA $5/27/10$ 15:442024781,2-Dichloroethane1.0U1.00.0571NA $5/27/10$ 15:442024781,2-Dichlorobenzene1.0U1.00.0891NA $5/27/10$ 15:442024781,2-Dichlorobenzene1.0U1.00.0151NA $5/27/10$ 15:442024781,3-Dichlorobenzene1.0U1.00.0921NA $5/27/10$ 15:442024781,4-Dichlorobenzene1.0U1.00.0851NA $5/27/10$ 15:442024782-Butanone (MEK)5.0U5.00.751NA $5/27/10$ 15:442024782-Hexanone5.0U5.00.561NA $5/27/10$ 15:442024782-Hexanone5.0U5.00.691NA $5/27/10$ 15:44202478Benzene1.0U1.00.0981NA $5/27/10$ 15:44202478Bromochloromethane1.0U1.00.151NA $5/27/10$ 15:44202478Bromodichloromethane1.0U1.00.141NA $5/27/10$ 15:44202478Bromodichloromethane1.0U1.00.121NA $5/27/10$ 15:44202478Carbon Disulfide1.0U1.00.121  |                                       | 1.0 U     | 1.0    | 0.34  | 1        | NA        | 5/27/10 15:44 | ļ          | 202478 |      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $  | . ,                                   |           | 1.0    | 0.14  | 1        | N7.4      | 5/07/10 15 44 |            | 202470 |      |
| 1,2-Dichlorobenzene       1.0 U       1.0 U       1.0 0.089       1       NA       5/27/10 15:44       202478         1,2-Dichloropropane       1.0 U       1.0 0.092       1       NA       5/27/10 15:44       202478         1,3-Dichlorobenzene       1.0 U       1.0 0.092       1       NA       5/27/10 15:44       202478         2-Butanone (MEK)       5.0 U       5.0 U       5.0 0.75       1       NA       5/27/10 15:44       202478         2-Hexanone       5.0 U       5.0 U       5.0 0.656       1       NA       5/27/10 15:44       202478         2-Hexanone       5.0 U       5.0 U       5.0 0.66       1       NA       5/27/10 15:44       202478         2-Hexanone       5.0 U       5.0 0.69       1       NA       5/27/10 15:44       202478         Acetone       5.0 U       1.0 U       1.0 0.098       1       NA       5/27/10 15:44       202478         Bromochloromethane       1.0 U       1.0 0.018       1       NA       5/27/10 15:44       202478         Bromodichloromethane       1.0 U       1.0 0.012       1       NA       5/27/10 15:44       202478         Bromoform       1.0 U       1.0 0.012       1       NA   | · · · · · · · · · · · · · · · · · · · |           |        |       |          |           |               |            |        |      |
| 1,2-Dichloropropane       1.0       U       1.0       0.15       1       NA       5/27/10       15:44       202478         1,3-Dichlorobenzene       1.0       U       1.0       0.092       1       NA       5/27/10       15:44       202478         1,4-Dichlorobenzene       1.0       U       1.0       0.085       1       NA       5/27/10       15:44       202478         2-Butanone (MEK)       5.0       U       5.0       0.75       1       NA       5/27/10       15:44       202478         2-Hexanone       5.0       U       5.0       0.56       1       NA       5/27/10       15:44       202478         4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/27/10       15:44       202478         Benzene       1.0       U       1.0       0.098       1       NA       5/27/10       15:44       202478         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/27/10       15:44       202478         Bromoform       1.0       U       1.0       0.12       1       NA       5/27/10       15:44       202478     <   | 1,2-Dichloroethane                    |           |        |       | 1        |           |               |            |        |      |
| 1.3-Dichlorobenzene1.0U1.00.0921NA $5/27/10$ 15:442024781.4-Dichlorobenzene1.0U1.00.0851NA $5/27/10$ 15:442024782-Butanone (MEK)5.0U5.00.751NA $5/27/10$ 15:442024782-Hexanone5.0U5.00.511NA $5/27/10$ 15:442024782-Hexanone5.0U5.00.561NA $5/27/10$ 15:44202478Acetone5.0U5.00.691NA $5/27/10$ 15:44202478Benzene1.0U1.00.0981NA $5/27/10$ 15:44202478Bromochloromethane1.0U1.00.181NA $5/27/10$ 15:44202478Bromodichloromethane1.0U1.00.141NA $5/27/10$ 15:44202478Bromodichloromethane1.0U1.00.141NA $5/27/10$ 15:44202478Bromodorm1.0U1.00.121NA $5/27/10$ 15:44202478Carbon Disulfide1.0U1.00.121NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.121NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.121NA $5/27/10$ 15:44  | ·                                     |           |        |       |          |           |               |            |        |      |
| 1,4-Dichlorobenzene1.0U1.00.0851NA $5/27/10$ 15:442024782-Butanone (MEK)5.0U5.00.751NA $5/27/10$ 15:442024782-Hexanone5.0U5.00.511NA $5/27/10$ 15:442024782-Hexanone5.0U5.00.561NA $5/27/10$ 15:442024784-Methyl-2-pentanone5.0U5.00.561NA $5/27/10$ 15:44202478Acetone $5_{00}$ 1.4 $1_{00}$ 0.981NA $5/27/10$ 15:44202478Benzene1.0U1.00.0981NA $5/27/10$ 15:44202478Bromochloromethane1.0U1.00.151NA $5/27/10$ 15:44202478Bromoform1.0U1.00.141NA $5/27/10$ 15:44202478Bromomethane1.0U1.00.121NA $5/27/10$ 15:44202478Carbon Disulfide1.0U1.00.161NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.121NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.141NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.121NA $5/27/10$ 15:44 <td>1,2-Dichloropropane</td> <td>1.0 U</td> <td>1.0</td> <td>0.15</td> <td>1</td> <td>NA</td> <td>5/27/10 15:44</td> <td>-</td> <td>202478</td> <td></td>   | 1,2-Dichloropropane                   | 1.0 U     | 1.0    | 0.15  | 1        | NA        | 5/27/10 15:44 | -          | 202478 |      |
| 2-Butanone (MEK) $5.0$ U $5.0$ $0.75$ 1NA $5/27/10$ $15:44$ $202478$ 2-Hexanone $5.0$ U $5.0$ $0.51$ 1NA $5/27/10$ $15:44$ $202478$ 4-Methyl-2-pentanone $5.0$ U $5.0$ $0.56$ 1NA $5/27/10$ $15:44$ $202478$ Acetone $5.0$ $1.4$ $DF$ $U$ $5.0$ $0.69$ 1NA $5/27/10$ $15:44$ $202478$ Benzene $1.0$ U $1.0$ $0.098$ 1NA $5/27/10$ $15:44$ $202478$ Bromochloromethane $1.0$ U $1.0$ $0.18$ 1NA $5/27/10$ $15:44$ $202478$ Bromodichloromethane $1.0$ $U$ $1.0$ $0.14$ 1NA $5/27/10$ $15:44$ $202478$ Bromoform $1.0$ $U$ $1.0$ $0.14$ 1NA $5/27/10$ $15:44$ $202478$ Bromomethane $1.0$ $U$ $1.0$ $0.14$ 1NA $5/27/10$ $15:44$ $202478$ Carbon Disulfide $1.0$ $U$ $1.0$ $0.12$ 1NA $5/27/10$ $15:44$ $202478$ Chlorobenzene $1.0$ $U$ $1.0$ $0.12$ $1$ NA $5/27/10$ $15:44$ $202478$ Chlorobenzene $1.0$ $U$ $1.0$ $0.14$ $1$ NA $5/27/10$ $15:44$ $202478$ Chlorobenzene $1.0$ $U$ $1.0$ $0.15$ $1$ NA $5/27/$  | 1,3-Dichlorobenzene                   | 1.0 U     | 1.0    | 0.092 | 1        | NA        | 5/27/10 15:44 | ł          | 202478 |      |
| 2-Hexanone5.0U5.00.511NA $5/27/10$ 15:442024784-Methyl-2-pentanone5.0U5.00.561NA $5/27/10$ 15:44202478Acetone $5_{20}$ 1.4 PF U 55.00.691NA $5/27/10$ 15:44202478Benzene1.0U1.00.0981NA $5/27/10$ 15:44202478Bromochloromethane1.0U1.00.181NA $5/27/10$ 15:44202478Bromochloromethane1.0U1.00.151NA $5/27/10$ 15:44202478Bromoform1.0U1.00.141NA $5/27/10$ 15:44202478Bromoform1.0U1.00.121NA $5/27/10$ 15:44202478Bromoform1.0U1.00.121NA $5/27/10$ 15:44202478Carbon Disulfide1.0U1.00.121NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.141NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.141NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.151NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.151NA $5/27/10$ 15:442   | 1,4-Dichlorobenzene                   | 1.0 U     | 1.0    | 0.085 | 1        | NA        | 5/27/10 15:44 | L          | 202478 |      |
| 4-Methyl-2-pentanone       5.0       U       5.0       0.56       1       NA       5/27/10 15:44       202478         Acetone       5.0       U       5.0       0.69       1       NA       5/27/10 15:44       202478         Benzene       1.0       U       1.0       0.098       1       NA       5/27/10 15:44       202478         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/27/10 15:44       202478         Bromochloromethane       1.0       U       1.0       0.18       1       NA       5/27/10 15:44       202478         Bromodichloromethane       1.0       U       1.0       0.15       1       NA       5/27/10 15:44       202478         Bromoform       1.0       U       1.0       0.14       1       NA       5/27/10 15:44       202478         Carbon Disulfide       1.0       U       1.0       0.12       1       NA       5/27/10 15:44       202478         Chlorobenzene       1.0       U       1.0       0.12       1       NA       5/27/10 15:44       202478         Chlorobenzene       1.0       U       1.0       0.14       1       N   | 2-Butanone (MEK)                      | 5.0 U     | 5.0    | 0.75  | 1        | NA        | 5/27/10 15:44 | ł          | 202478 |      |
| Acctone $5_{C}$ 1.4 DF $U_{1}$ 5.00.691NA $5/27/10$ 15:44202478Benzene1.0U1.00.0981NA $5/27/10$ 15:44202478Bromochloromethane1.0U1.00.181NA $5/27/10$ 15:44202478Bromodichloromethane1.0U1.00.151NA $5/27/10$ 15:44202478Bromodichloromethane1.0U1.00.141NA $5/27/10$ 15:44202478Bromomethane1.0U1.00.121NA $5/27/10$ 15:44202478Carbon Disulfide1.0U1.00.161NA $5/27/10$ 15:44202478Carbon Tetrachloride5.51.00.121NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.141NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.141NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.211NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.151NA $5/27/10$ 15:44202478Chlorobenzene1.0U1.00.151NA $5/27/10$ 15:44202478Chloroberthane1.0U1.00.151NA $5/27/10$ <t< td=""><td>2-Hexanone</td><td>5.0 U</td><td></td><td>0.51</td><td>1</td><td></td><td>5/27/10 15:44</td><td>ł</td><td>202478</td><td></td></t<>   | 2-Hexanone                            | 5.0 U     |        | 0.51  | 1        |           | 5/27/10 15:44 | ł          | 202478 |      |
| Benzene1.0U1.00.0981NA5/27/1015:44202478Bromochloromethane1.0U1.00.181NA5/27/1015:44202478Bromodichloromethane1.0U1.00.151NA5/27/1015:44202478Bromoform1.0U1.00.141NA5/27/1015:44202478Bromomethane1.0U1.00.141NA5/27/1015:44202478Carbon Disulfide1.0U1.00.161NA5/27/1015:44202478Carbon Tetrachloride <b>5.5</b> 1.00.121NA5/27/1015:44202478Chlorobenzene1.0U1.00.141NA5/27/1015:44202478Chlorobenzene1.0U1.00.141NA5/27/1015:44202478Chlorobenzene1.0U1.00.141NA5/27/1015:44202478Chlorobenzene1.0U1.00.211NA5/27/1015:44202478Chlorobenzene1.0U1.00.151NA5/27/1015:44202478Chloroberhane1.0U1.00.151NA5/27/1015:44202478Chloroberhane1.0U1.00.121NA5/27/1015:44202478Chloroberh  | 4-Methyl-2-pentanone                  | 5.0 U     | 5.0    | 0.56  | 1        | NA        | 5/27/10 15:44 | ļ.         | 202478 |      |
| Bromochloromethane1.0U1.00.181NA5/27/1015:44202478Bromodichloromethane1.0U1.00.151NA5/27/1015:44202478Bromoform1.0U1.00.141NA5/27/1015:44202478Bromomethane1.0U1.00.121NA5/27/1015:44202478Carbon Disulfide1.0U1.00.161NA5/27/1015:44202478Carbon Tetrachloride <b>5.5</b> 1.00.121NA5/27/1015:44202478Chlorobenzene1.0U1.00.141NA5/27/1015:44202478Chloroform0.25J1.00.151NA5/27/1015:44202478Chloroform0.25J1.00.121NA5/27/1015:44202478Chloroform0.25J1.00.121NA5/27/1015:44202478Chloroform0.25J1.00.121NA5/27/1015:44202478Chloroformethane1.0U1.00.111NA5/27/1015:44202478Chloropropene1.0U1.00.111NA5/27/1015:44202478cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/1015:44202478 <td< td=""><td>Acetone</td><td>50 1.4 By</td><td>イゴ 5.0</td><td>0.69</td><td>1</td><td>NA</td><td>5/27/10 15:44</td><td>ł</td><td>202478</td><td></td></td<>  | Acetone                               | 50 1.4 By | イゴ 5.0 | 0.69  | 1        | NA        | 5/27/10 15:44 | ł          | 202478 |      |
| Bromodichloromethane1.0U1.00.151NA5/27/1015:44202478Bromoform1.0U1.00.141NA5/27/1015:44202478Bromomethane1.0U1.00.121NA5/27/1015:44202478Carbon Disulfide1.0U1.00.161NA5/27/1015:44202478Carbon Tetrachloride <b>5.5</b> 1.00.121NA5/27/1015:44202478Chlorobenzene1.0U1.00.141NA5/27/1015:44202478Chlorobenzene1.0U1.00.211NA5/27/1015:44202478Chloroform <b>0.25</b> J1.00.151NA5/27/1015:44202478Chloroform <b>0.25</b> J1.00.121NA5/27/1015:44202478Chloroform <b>0.25</b> J1.00.121NA5/27/1015:44202478Chloroform0.25J1.00.121NA5/27/1015:44202478Chloroformethane1.0U1.00.111NA5/27/1015:44202478cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/1015:44202478Dibromochloromethane1.0U1.00.131NA5/27/1015:44202478 <td>Benzene</td> <td>1.0 U</td> <td>1.0</td> <td>0.098</td> <td>1</td> <td>NA</td> <td>5/27/10 15:44</td> <td>ļ</td> <td>202478</td> <td></td>   | Benzene                               | 1.0 U     | 1.0    | 0.098 | 1        | NA        | 5/27/10 15:44 | ļ          | 202478 |      |
| Bromoform1.0U1.00.141NA $5/27/10$ $15:44$ $202478$ Bromomethane1.0U1.00.121NA $5/27/10$ $15:44$ $202478$ Carbon Disulfide1.0U1.00.161NA $5/27/10$ $15:44$ $202478$ Carbon Tetrachloride <b>5.5</b> 1.00.121NA $5/27/10$ $15:44$ $202478$ Chlorobenzene1.0U1.00.141NA $5/27/10$ $15:44$ $202478$ Chloroethane1.0U1.00.211NA $5/27/10$ $15:44$ $202478$ Chloroform <b>0.25</b> J1.00.151NA $5/27/10$ $15:44$ $202478$ Chloromethane1.0U1.00.121NA $5/27/10$ $15:44$ $202478$ Chloromethane1.0U1.00.121NA $5/27/10$ $15:44$ $202478$ Chloromethane1.0U1.00.111NA $5/27/10$ $15:44$ $202478$ cis-1,2-Dichloroethene1.0U1.00.0791NA $5/27/10$ $15:44$ $202478$ cis-1,3-Dichloropropene1.0U1.00.0791NA $5/27/10$ $15:44$ $202478$ Dibromochloromethane1.0U1.00.131NA $5/27/10$ $15:44$ $202478$   | Bromochloromethane                    | 1.0 U     | 1.0    | 0.18  | 1        | NA        | 5/27/10 15:44 | Ļ          | 202478 |      |
| Bromomethane1.0U1.00.121NA $5/27/10$ $15:44$ $202478$ Carbon Disulfide1.0U1.00.161NA $5/27/10$ $15:44$ $202478$ Carbon Tetrachloride <b>5.5</b> 1.00.121NA $5/27/10$ $15:44$ $202478$ Chlorobenzene1.0U1.00.141NA $5/27/10$ $15:44$ $202478$ Chloroethane1.0U1.00.211NA $5/27/10$ $15:44$ $202478$ Chloroform <b>0.25</b> J1.00.151NA $5/27/10$ $15:44$ $202478$ Chloromethane1.0U1.00.121NA $5/27/10$ $15:44$ $202478$ cis-1,2-Dichloroethene1.0U1.00.111NA $5/27/10$ $15:44$ $202478$ cis-1,3-Dichloropropene1.0U1.00.0791NA $5/27/10$ $15:44$ $202478$ Dibromochloromethane1.0U1.00.0791NA $5/27/10$ $15:44$ $202478$  | Bromodichloromethane                  | 1.0 U     | 1.0    | 0.15  | 1        | NA        | 5/27/10 15:44 | ł          | 202478 |      |
| Carbon Disulfide1.0U1.00.161NA $5/27/10$ $15:44$ $202478$ Carbon Tetrachloride $5.5$ 1.00.121NA $5/27/10$ $15:44$ $202478$ Chlorobenzene1.0U1.00.141NA $5/27/10$ $15:44$ $202478$ Chloroethane1.0U1.00.211NA $5/27/10$ $15:44$ $202478$ Chloroform0.25J1.00.151NA $5/27/10$ $15:44$ $202478$ Chloromethane1.0U1.00.121NA $5/27/10$ $15:44$ $202478$ cis-1,2-Dichloroethene1.0U1.00.111NA $5/27/10$ $15:44$ $202478$ cis-1,3-Dichloropropene1.0U1.00.0791NA $5/27/10$ $15:44$ $202478$ Dibromochloromethane1.0U1.00.131NA $5/27/10$ $15:44$ $202478$   | Bromoform                             | 1.0 U     | 1.0    | 0.14  | 1        | NA        | 5/27/10 15:44 | Ļ          | 202478 |      |
| Carbon Tetrachloride5.51.00.121NA $5/27/10$ $15:44$ $202478$ Chlorobenzene1.0U1.00.141NA $5/27/10$ $15:44$ $202478$ Chloroethane1.0U1.00.211NA $5/27/10$ $15:44$ $202478$ Chloroform0.25J1.00.151NA $5/27/10$ $15:44$ $202478$ Chloromethane1.0U1.00.121NA $5/27/10$ $15:44$ $202478$ cis-1,2-Dichloroethene1.0U1.00.111NA $5/27/10$ $15:44$ $202478$ cis-1,3-Dichloropropene1.0U1.00.0791NA $5/27/10$ $15:44$ $202478$ Dibromochloromethane1.0U1.00.131NA $5/27/10$ $15:44$ $202478$   | Bromomethane                          |           |        |       | 1        |           |               |            | 202478 |      |
| Chlorobenzene1.0U1.00.141NA5/27/1015:44202478Chloroethane1.0U1.00.211NA5/27/1015:44202478Chloroform0.25J1.00.151NA5/27/1015:44202478Chloromethane1.0U1.00.121NA5/27/1015:44202478cis-1,2-Dichloroethene1.0U1.00.111NA5/27/1015:44202478cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/1015:44202478Dibromochloromethane1.0U1.00.131NA5/27/1015:44202478   | Carbon Disulfide                      | 1.0 U     | 1.0    | 0.16  | 1        | NA        | 5/27/10 15:44 | ļ          | 202478 |      |
| Chloroethane1.0U1.00.211NA5/27/1015:44202478Chloroform0.25J1.00.151NA5/27/1015:44202478Chloromethane1.0U1.00.121NA5/27/1015:44202478cis-1,2-Dichloroethene1.0U1.00.111NA5/27/1015:44202478cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/1015:44202478Dibromochloromethane1.0U1.00.131NA5/27/1015:44202478  | Carbon Tetrachloride                  | 5.5       | 1.0    | 0.12  | 1        | NA        | 5/27/10 15:44 | ļ          | 202478 |      |
| Chloroform0.25J1.00.151NA5/27/1015:44202478Chloromethane1.0U1.00.121NA5/27/1015:44202478cis-1,2-Dichloroethene1.0U1.00.111NA5/27/1015:44202478cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/1015:44202478Dibromochloromethane1.0U1.00.131NA5/27/1015:44202478  | Chlorobenzene                         |           |        |       | 1        |           |               |            |        |      |
| Chloromethane1.0U1.00.121NA5/27/1015:44202478cis-1,2-Dichloroethene1.0U1.00.111NA5/27/1015:44202478cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/1015:44202478Dibromochloromethane1.0U1.00.131NA5/27/1015:44202478   | Chloroethane                          | 1.0 U     | 1.0    | 0.21  | 1        | NA        | 5/27/10 15:44 | ļ          | 202478 |      |
| cis-1,2-Dichloroethene1.0U1.00.111NA5/27/10 15:44202478cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/10 15:44202478Dibromochloromethane1.0U1.00.131NA5/27/10 15:44202478   | Chloroform                            | 0.25 J    | 1.0    |       | 1        |           | 5/27/10 15:44 | Ļ          | 202478 |      |
| cis-1,3-Dichloropropene1.0U1.00.0791NA5/27/1015:44202478Dibromochloromethane1.0U1.00.131NA5/27/1015:44202478  | Chloromethane                         | 1.0 U     | 1.0    | 0.12  | 1        | NA        | 5/27/10 15:44 | Ļ          | 202478 |      |
| Dibromochloromethane 1.0 U 1.0 0.13 I NA 5/27/10 15:44 202478   | cis-1,2-Dichloroethene                | 1.0 U     | 1.0    | 0.11  | 1        | NA        | 5/27/10 15:44 | ļ          | 202478 |      |
|   |                                       |           |        |       | 1        |           |               |            | 202478 |      |
| Ethylbenzene         1.0         U         1.0         0.13         1         NA         5/27/10         15:44         202478   |                                       |           |        |       | 1        |           |               |            |        |      |
|   | Ethylbenzene                          | 1.0 U     | 1.0    | 0.13  | 1        | NA        | 5/27/10 15:44 | ļ          | 202478 |      |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/19/10 1045           Date Received:         5/20/10 |
|---------------------------------------|--|---|
| Sample Name:                          | M-24DR   | Units: μg/L   |
| Lab Code:                             | R1002703-005   | Basis: NA   |

## Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | is   |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 15:44 | ł          | 202478  |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/27/10 15:44 | 1          | 202478  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 15:44 | 1          | 202478  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 15:44 | 1          | 202478  |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/27/10 15:44 | 1          | 202478  | ;    |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 15:44 | 1          | 202478  | ;    |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/27/10 15:44 | 1          | 202478  | 3    |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 15:44 | 4          | 202478  | 3    |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/27/10 15:44 | 4          | 202478  | 3    |
| Trichloroethene (TCE)                   | 18       | 1.0 | 0.16  | 1        | NA        | 5/27/10 15:44 | 4          | 202478  | 3    |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 15:44 | 4          | 202478  | 3    |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 15:44 | 4          | 202478  | 3    |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |  |
|----------------------|------|-------------------|------------------|---|------|--|
| 4-Bromofluorobenzene | 90   | 80-120            | 5/27/10 15:44    |   |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix:   | Project: GE MRFA/138165 |    |        |   |                  | R1002703<br>5/19/10<br>5/20/10<br>5/27/10 1544 |  |  |  |
|---|-------------------------|----|--------|---|------------------|--|--|--|--|
| Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |                         |    |        |   |                  |  |  |  |  |
| Sample Name:<br>Lab Code:   | M-24DR<br>R1002703-005  |    |        |   | Units:<br>Basis: |  |  |  |  |
| Analytical Method:  | CLP-VOA OLC02.1         |    |        |   |                  |  |  |  |  |
| CAS # Anal  | yte Name                | RT | Result | Q |                  |  |  |  |  |
| No Tentatively Identified Compounds Detected.   |                         |    |        |   |                  |  |  |  |  |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Service Request:R1002703Project:GE MRFA/138165Date Collected:5/19/10 0930Sample Matrix:WaterDate Received:5/20/10Sample Name:M-25DUnits:µg/LLab Code:R1002703-006Basis:NA

## Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

| ·                                     |               |      |      | Dilution | Date      | Date          | Extraction A | alysi | is   |
|---------------------------------------|---------------|------|------|----------|-----------|---------------|--------------|-------|------|
| Analyte Name                          | Result Q      | MRL  | MDL  | Factor   | Extracted | Analyzed      | Lot          | Lot   | Note |
| 1,1,1-Trichloroethane (TCA)           | 5.0 U         | 5.0  | 0.71 | 5        | NA        | 5/26/10 18:43 |              | 2273  |      |
| 1,1,2,2-Tetrachloroethane             | 5.0 U         | 5.0  | 0.60 | 5        | NA        | 5/26/10 18:43 |              | 2273  |      |
| 1,1,2-Trichloroethane                 | 5.0 U         | 5.0  | 0.55 | 5        | NA        | 5/26/10 18:43 | 20           | 2273  |      |
| 1,1-Dichloroethane (1,1-DCA)          | 5.0 U         | 5.0  | 0.55 | 5        | NA        | 5/26/10 18:43 |              | 2273  |      |
| 1,1-Dichloroethene (1,1-DCE)          | 5.0 U         | 5.0  | 0.86 | 5        | NA        | 5/26/10 18:43 |              | 2273  |      |
| 1,2,3-Trichlorobenzene                | 5.0 U         | 5.0  | 0.90 | 5        | NA        | 5/26/10 18:43 | 20           | 02273 | 8    |
| 1,2,4-Trichlorobenzene                | 5.0 U         | 5.0  | 0.65 | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 5.0 U         | 5.0  | 1.8  | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 1,2-Dibromoethane                     | 5.0 U         | 5.0  | 0.71 | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 1,2-Dichloroethane                    | 5.0 U         | 5.0  | 0.29 | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 1,2-Dichlorobenzene                   | 5.0 U         | 5.0  | 0.45 | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 1,2-Dichloropropane                   | 5.0 U         | 5.0  | 0.75 | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 1,3-Dichlorobenzene                   | 5.0 U         | 5.0  | 0.46 | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 1,4-Dichlorobenzene                   | 5.0 U         | 5.0  | 0.43 | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 2-Butanone (MEK)                      | 25 U          | 25   | 3.8  | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| 2-Hexanone                            | 25 U          | 25   | 2.6  | 5        | NA        | 5/26/10 18:43 |              | )2273 |      |
| 4-Methyl-2-pentanone                  | 25 U          | 25   | 2.9  | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| · ·                                   | 25 47 BJ U    | 5 25 | 3.5  | 5        | NA        | 5/26/10 18:43 | 20           | )2273 | 3    |
| Benzene                               | 5.0 U         | 5.0  | 0.49 | 5        | NA        | 5/26/10 18:43 | 2            | 02273 | 3    |
| Bromochloromethane                    | 5.0 U         | 5.0  | 0.90 | 5        | NA        | 5/26/10 18:43 |              | )2273 |      |
| Bromodichloromethane                  | 5.0 U         | 5.0  | 0.75 | 5        | NA        | 5/26/10 18:43 | 2            | )2273 | 3    |
| Bromoform                             | 5.0 U         | 5.0  | 0.71 | 5        | NA        | 5/26/10 18:43 |              | )2273 |      |
| Bromomethane                          | 5.0 U         | 5.0  | 0.60 | 5        | NA        | 5/26/10 18:43 |              | 02273 |      |
| Carbon Disulfide                      | 5.0 U         | 5.0  | 0.80 | 5        | NA        | 5/26/10 18:43 | 2            | )2273 | 3    |
| Carbon Tetrachloride                  | 35            | 5.0  | 0.60 | 5        | NA        | 5/26/10 18:43 | 2            | 02273 | 3    |
| Chlorobenzene                         | 5.0 U         | 5.0  | 0.71 | 5        | NA        | 5/26/10 18:43 |              | 02273 |      |
| Chloroethane                          | 5.0 U         | 5.0  | 1.1  | 5        | NA        | 5/26/10 18:43 | 2            | )227: | 3    |
| Chloroform                            | <b>3.</b> 0 J | 5.0  | 0.75 | 5        | NA        | 5/26/10 18:43 |              | )2273 |      |
| Chloromethane                         | 5.0 U         | 5.0  | 0.60 | 5        | NA        | 5/26/10 18:43 |              | 02273 |      |
| cis-1,2-Dichloroethene                | 5.0 U         | 5.0  | 0.55 | 5        | NA        | 5/26/10 18:43 | 2            | 02273 | 3    |
| cis-1,3-Dichloropropene               | 5.0 U         | 5.0  | 0.40 | 5        | NA        | 5/26/10 18:43 |              | 02273 |      |
| Dibromochloromethane                  | 5.0 U         | 5.0  | 0.65 | 5        | NA        | 5/26/10 18:43 |              | 02273 |      |
| Ethylbenzene                          | 5.0 U         | 5.0  | 0.65 | 5        | NA        | 5/26/10 18:43 | 3 2          | 02273 | 3    |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703    |
|----------------|---|------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10 0930 |
| Sample Matrix: | Water                                     | Date Received: 5/20/10       |
| Sample Name:   | M-25D                                     | Units: µg/L                  |
| Lab Code:      | R1002703-006                              | <b>Basis:</b> NA             |

# Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|   |        |   |     |      | Dilution | Date      | Date          | Extraction | Analysi | is   |
|---|--------|---|-----|------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result | Q | MRL | MDL  | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 5.0    | U | 5.0 | 0.90 | 5        | NA        | 5/26/10 18:43 | }          | 202273  |      |
| m,p-Xylenes                             | 5.0    | U | 5.0 | 1.1  | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 5.0    | U | 5.0 | 0.80 | 5        | NA        | 5/26/10 18:43 | }          | 202273  |      |
| o-Xylene                                | 5.0    | U | 5.0 | 0.55 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Styrene                                 | 5.0    | U | 5.0 | 0.48 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Tetrachloroethene (PCE)                 | 5.0    | U | 5.0 | 0.75 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Toluene                                 | 5.0    | U | 5.0 | 0.49 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| trans-1,2-Dichloroethene                | 5.0    | U | 5.0 | 0.80 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| trans-1,3-Dichloropropene               | 5.0    | U | 5.0 | 0.30 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Trichloroethene (TCE)                   | 76     |   | 5.0 | 0.80 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Trichlorofluoromethane (CFC 11)         | 5.0    | U | 5.0 | 0.90 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |
| Vinyl Chloride                          | 5.0    | U | 5.0 | 0.71 | 5        | NA        | 5/26/10 18:43 | 3          | 202273  |      |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 95   | 80-120            | 5/26/10 18:43      |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix:   | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |  |  |  |  |  |  |
|---|--|---|--------------------|--|--|--|--|--|--|
| Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |  |   |                    |  |  |  |  |  |  |
| Sample Name:<br>Lab Code:   | M-25D<br>R1002703-006  | Units:<br>Basis:  | • =                |  |  |  |  |  |  |
| Analytical Method:  | CLP-VOA OLC02.1  |   |                    |  |  |  |  |  |  |
| CAS # Anal  | lyte Name RT Result Q  |   |                    |  |  |  |  |  |  |
| No Tentatively Identified Compounds Detected.   |  |   |                    |  |  |  |  |  |  |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Service Request:R1002703Project:GE MRFA/138165Date Collected:5/19/10 1000Sample Matrix:WaterDate Received:5/20/10Sample Name:M-29Units:µg/LLab Code:R1002703-007Basis:NA

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                                       |        | •   |       | MDI  | Dilution | Date      |               | Extraction Analy | ysis<br>t Note |
|---------------------------------------|--------|-----|-------|------|----------|-----------|---------------|------------------|----------------|
| Analyte Name                          | Result | Q   | MRL   | MDL  |          | Extracted | Analyzed      |                  |                |
| 1,1,1-Trichloroethane (TCA)           | 4.2    |     | 2.0   | 0.28 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,1,2,2-Tetrachloroethane             | 2.0    |     | 2.0   | 0.24 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,1,2-Trichloroethane                 | 2.0    | U   | 2.0   | 0.22 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,1-Dichloroethane (1,1-DCA)          | 2.0    | U   | 2.0   | 0.22 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,1-Dichloroethene (1,1-DCE)          | 2.0    |     | 2.0   | 0.34 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,2,3-Trichlorobenzene                | 2.0    | U   | 2.0   | 0.36 | 2        | NA        | 5/26/10 19:33 | 3 2022           | 73             |
| 1,2,4-Trichlorobenzene                | 2.0    | U   | 2.0   | 0.26 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 2.0    | U   | 2.0   | 0.68 | 2        | NA        | 5/26/10 19:33 | 3 2022           | 73             |
| 1,2-Dibromoethane                     | 2.0    | U   | 2.0   | 0.28 | 2        | NA        | 5/26/10 19:33 | 3 2022           | 73             |
| 1,2-Dichloroethane                    | 2.0    | U   | 2.0   | 0.12 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,2-Dichlorobenzene                   | 2.0    | U   | 2.0   | 0.18 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,2-Dichloropropane                   | 2.0    | U   | 2.0   | 0.30 | 2        | NA        | 5/26/10 19:33 | 3 2022           | 73             |
| 1,3-Dichlorobenzene                   | 2.0    |     | 2.0   | 0.19 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 1,4-Dichlorobenzene                   | 2.0    |     | 2.0   | 0.17 | 2        | NA        | 5/26/10 19:33 |                  |                |
| 2-Butanone (MEK)                      | 10     | U   | 10    | 1.5  | 2        | NA        | 5/26/10 19:33 | 3 2022           | 73             |
| 2-Hexanone                            | 10     |     | 10    | 1.1  | 2        | NA        | 5/26/10 19:33 |                  |                |
| 4-Methyl-2-pentanone                  | 10     |     | 10    | 1.2  | 2        | NA        | 5/26/10 19:33 |                  |                |
| Acetone                               | 10 3.7 | -BJ | uJ 10 | 1.4  | 2        | NA        | 5/26/10 19:33 | 3 2022           | 73             |
| Benzene                               | 2.0    |     | 2.0   | 0.20 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Bromochloromethane                    | 2.0    |     | 2.0   | 0.36 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Bromodichloromethane                  | 2.0    | U   | 2.0   | 0.30 | 2        | NA        | 5/26/10 19:33 | 3 2022           | .73            |
| Bromoform                             | 2.0    |     | 2.0   | 0.28 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Bromomethane                          | 2.0    |     | 2.0   | 0.24 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Carbon Disulfide                      | 2.0    | U   | 2.0   | 0.32 | 2        | NA        | 5/26/10 19:33 | 3 2022           | .73            |
| Carbon Tetrachloride                  | 28     |     | 2.0   | 0.24 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Chlorobenzene                         | 2.0    |     | 2.0   | 0.28 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Chloroethane                          | 2.0    | U   | 2.0   | 0.42 | 2        | NA        | 5/26/10 19:33 | 3 2022           | .73            |
| Chloroform                            | 2.8    |     | 2.0   | 0.30 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Chloromethane                         | 2.0    |     | 2.0   | 0.24 | 2        | NA        | 5/26/10 19:33 |                  |                |
| cis-1,2-Dichloroethene                | 2.0    | U   | 2.0   | 0.22 | 2        | NA        | 5/26/10 19:33 |                  | .73            |
| cis-1,3-Dichloropropene               | 2.0    |     | 2.0   | 0.16 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Dibromochloromethane                  | 2.0    |     | 2.0   | 0.26 | 2        | NA        | 5/26/10 19:33 |                  |                |
| Ethylbenzene                          | 2.0    | U   | 2.0   | 0.26 | 2        | NA        | 5/26/10 19:3  | 3 2022           | .13            |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/19/10 1000           Date Received:         5/20/10 |
|---------------------------------------|--|---|
| Sample Name:                          | M-29   | Units: μg/L   |
| Lab Code:                             | R1002703-007   | Basis: NA   |

## Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|   |          |     |      | Dilution | Date      | Date          | Extraction Analysis |
|---|----------|-----|------|----------|-----------|---------------|---------------------|
| Analyte Name                            | Result Q | MRL | MDL  | Factor   | Extracted | Analyzed      | Lot Lot No          |
| Hexachlorobutadiene                     | 2.0 U    | 2.0 | 0.36 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| m,p-Xylenes                             | 2.0 U    | 2.0 | 0.44 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| Dichloromethane (Methylene<br>Chloride) | 2.0 U    | 2.0 | 0.32 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| o-Xylene                                | 2.0 U    | 2.0 | 0.22 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| Styrene                                 | 2.0 U    | 2.0 | 0.20 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| Tetrachloroethene (PCE)                 | 2.0 U    | 2.0 | 0.30 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| Toluene                                 | 2.0 U    | 2.0 | 0.20 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| trans-1,2-Dichloroethene                | 2.0 U    | 2.0 | 0.32 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| trans-1,3-Dichloropropene               | 2.0 U    | 2.0 | 0.12 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| Trichloroethene (TCE)                   | 21       | 2.0 | 0.32 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| Trichlorofluoromethane (CFC 11)         | 2.0 U    | 2.0 | 0.36 | 2        | NA        | 5/26/10 19:33 | 3 202273            |
| Vinyl Chloride                          | 2.0 U    | 2.0 | 0.28 | 2        | NA        | 5/26/10 19:33 | 3 202273            |

|                      |      | Control | Date          |      |  |
|----------------------|------|---------|---------------|------|--|
| Surrogate Name       | %Rec | Limits  | Analyzed Q    | Note |  |
| 4-Bromofluorobenzene | 92   | 80-120  | 5/26/10 19:33 |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrast<br>GE MRFA/138165<br>Water | ructure, Inc. |          |                                    | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |
|---------------------------------------|---|---------------|----------|------------------------------------|---|--------------------|
|                                       |   |               |          | pounds (TIC)<br>Compounds by GC/MS |   |                    |
| Sample Name:<br>Lab Code:             | M-29<br>R1002703-007                                    |               |          |                                    | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1   |               |          |                                    |   |                    |
| CAS # Anal                            | yte Name  | RT            | Result   | Q                                  |   |                    |
|                                       | No Tentatively Identified                               | Compounds D   | etected. |                                    |   |                    |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: |         |
|----------------|---|------------------|---------|
| Project:       | GE MRFA/138165                            | Date Collected:  |         |
| Sample Matrix: | Water                                     | Date Received:   | 5/20/10 |
| Sample Name:   | TRIP BLANK                                | Units:           | 10      |
| Lab Code:      | R1002703-008                              | Basis:           |         |

### Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|                                       |          |     |       | Dilution | Date      | Date          | <b>Extraction Analysi</b> | <b>S</b> |
|---------------------------------------|----------|-----|-------|----------|-----------|---------------|---------------------------|----------|
| Analyte Name                          | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot                   | Note     |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:10 |                           |          |
| 1,1,2-Trichloroethane                 | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,2,3-Trichlorobenzene                | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,2,4-Trichlorobenzene                | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,2-Dibromoethane                     | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,2-Dichloroethane                    | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,2-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.089 | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,2-Dichloropropane                   | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,3-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 1,4-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.085 | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 2-Butanone (MEK)                      | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 2-Hexanone                            | 5.0 U    | 5.0 | 0.51  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| 4-Methyl-2-pentanone                  | 5.0 U    | 5.0 | 0.56  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| Acetone                               | 2.3 BJ J | 5.0 | 0.69  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| Benzene                               | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 20:10 |                           |          |
| Bromochloromethane                    | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:10 |                           |          |
| Bromodichloromethane                  | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| Bromoform                             | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:10 |                           |          |
| Bromomethane                          | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:10 |                           |          |
| Carbon Disulfide                      | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| Carbon Tetrachloride                  | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:10 |                           |          |
| Chlorobenzene                         | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| Chloroethane                          | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| Chloroform                            | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:10 |                           |          |
| Chloromethane                         | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:10 |                           |          |
| cis-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |
| cis-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.079 | 1        | NA        | 5/26/10 20:10 |                           | -        |
| Dibromochloromethane                  | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:10 |                           |          |
| Ethylbenzene                          | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:10 | 202273                    |          |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. | Service Request: R1002703     |
|----------------|---|-------------------------------|
| Project:       | GE MRFA/138165                            | Date Collected: 5/19/10       |
| Sample Matrix: | Water                                     | <b>Date Received:</b> 5/20/10 |
| Sample Name:   | TRIP BLANK                                | Units: µg/L                   |
| Lab Code:      | R1002703-008                              | Basis: NA                     |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| Analyte Name                            | Result Q | MRL | MDL   | Dilution<br>Factor | Date<br>Extracted |               | Extraction<br>Lot | •      | is<br>Note |
|---|----------|-----|-------|--------------------|-------------------|---------------|-------------------|--------|------------|
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| Toluene                                 | 0.13 J   | 1.0 | 0.098 | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1                  | NA                | 5/26/10 20:10 | )                 | 202273 |            |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed | Q | Note |          |
|----------------------|------|-------------------|------------------|---|------|----------|
| 4-Bromofluorobenzene | 92   | 80-120            | 5/26/10 20:10    |   |      | <u> </u> |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrast<br>GE MRFA/138165<br>Water | tructure, Inc. |          |                                    | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/19/10<br>5/20/10 |
|---------------------------------------|---|----------------|----------|------------------------------------|---|--------------------|
|                                       |   | •              |          | pounds (TIC)<br>Compounds by GC/MS |   |                    |
| Sample Name:<br>Lab Code:             | TRIP BLANK<br>R1002703-008                              |                |          |                                    | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1   |                |          |                                    |   |                    |
| CAS # Anal                            | yte Name  | RT             | Result   | Q                                  |   |                    |
|                                       | No Tentatively Identified                               | Compounds D    | etected. |                                    |   |                    |

Analytical Report

Shaw Environmental & Infrastructure, Inc. **Client:** GE MRFA/138165 **Project:** Sample Matrix: Water COOLER BLANK Sample Name: Lab Code: R1002703-009

Service Request: R1002703 Date Collected: 5/20/10 Date Received: 5/20/10

Units: µg/L Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

## Analytical Method: CLP-VOA OLC02.1

|                                       |          |     |       | Dilution | Date      |               | Extraction |        |      |
|---------------------------------------|----------|-----|-------|----------|-----------|---------------|------------|--------|------|
| Analyte Name                          | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        |        | Note |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 |            | 202478 |      |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:45 |            | 202478 |      |
| 1,1,2-Trichloroethane                 | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:45 |            | 202478 |      |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:45 |            | 202478 |      |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/27/10 18:45 |            | 202478 |      |
| 1,2,3-Trichlorobenzene                | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 |            | 202478 | 3    |
| 1,2,4-Trichlorobenzene                | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/27/10 18:45 | i          | 202478 |      |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/27/10 18:45 |            | 202478 |      |
| 1,2-Dibromoethane                     | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | j          | 202478 | 3    |
| 1,2-Dichloroethane                    | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 3    |
| 1,2-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.089 | 1        | NA        | 5/27/10 18:45 |            | 202478 |      |
| 1,2-Dichloropropane                   | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 3    |
| 1,3-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 3    |
| 1,4-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.085 | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 8    |
| 2-Butanone (MEK)                      | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 8    |
| 2-Hexanone                            | 5.0 U    | 5.0 | 0.51  | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 8    |
| 4-Methyl-2-pentanone                  | 5.0 U    | 5.0 | 0.56  | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 8    |
| Acetone                               | 5.0 UUJ  | 5.0 | 0.69  | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 8    |
| Benzene                               | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 8    |
| Bromochloromethane                    | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 | 5          | 202478 |      |
| Bromodichloromethane                  | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:45 | 5          | 202478 | 8    |
| Bromoform                             | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | 5          | 20247  | 8    |
| Bromomethane                          | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:45 | 5          | 20247  | 8    |
| Carbon Disulfide                      | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | 5          | 20247  | 8    |
| Carbon Tetrachloride                  | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:45 | 5          | 20247  | 8    |
| Chlorobenzene                         | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | 5          | 20247  | 8    |
| Chloroethane                          | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/27/10 18:45 | 5          | 20247  | 8    |
| Chloroform                            | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:4: | 5          | 20247  | 8    |
| Chloromethane                         | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/27/10 18:4: | 5          | 20247  | 8    |
| cis-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:4: | 5          | 20247  | 8    |
| cis-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.079 | 1        | NA        | 5/27/10 18:4: | 5          | 20247  |      |
| Dibromochloromethane                  | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/27/10 18:4: |            | 20247  |      |
| Ethylbenzene                          | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/27/10 18:4: | 5          | 20247  | 8    |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/20/10           Date Received:         5/20/10 |
|---------------------------------------|--|--|
| Sample Name:                          | COOLER BLANK   | Units: µg/L  |
| Lab Code:                             | R1002703-009   | Basis: NA  |

### Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | <b>Extraction Analysis</b> | S    |
|---|----------|-----|-------|----------|-----------|---------------|----------------------------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot Lot                    | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/27/10 18:45 | 5 202478                   |      |

|                      |      | Control | Date          |      |  |
|----------------------|------|---------|---------------|------|--|
| Surrogate Name       | %Rec | Limits  | Analyzed Q    | Note |  |
| 4-Bromofluorobenzene | 96   | 80-120  | 5/27/10 18:45 |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infra<br>GE MRFA/138165<br>Water | astructure, Inc |  | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/20/10 |
|---------------------------------------|---|-----------------|--|---|--------------------|
|                                       |   | •               | tified Compounds (TIC)<br>e Organic Compounds by GC/MS |   |                    |
| Sample Name:<br>Lab Code:             | COOLER BLANK<br>R1002703-009                          |                 |  | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1                                       |                 |  |   |                    |
| CAS # Anal                            | yte Name  | RT              | Result Q   |   |                    |
|                                       | No Tentatively Identifie                              | d Compounds 1   | Detected.  |   |                    |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.ServiceProject:GE MRFA/138165DateSample Matrix:WaterDateSample Name:14DLab Code:R1002703-010

 Service Request:
 R1002703

 Date Collected:
 5/20/10 0850

 Date Received:
 5/21/10

Units: µg/L Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| -                                     |          |     |       | Dilution | Date      |               | Extraction                            | •      |      |
|---------------------------------------|----------|-----|-------|----------|-----------|---------------|---------------------------------------|--------|------|
| Analyte Name                          | Result Q | MRL | MDL   | Factor   | Extracted | -             | Lot                                   |        | Note |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 1,1,2-Trichloroethane                 | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 1,2,3-Trichlorobenzene                | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:46 | · · · · · · · · · · · · · · · · · · · | 202273 | 3    |
| 1,2,4-Trichlorobenzene                | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 1,2-Dibromoethane                     | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:46 | ,<br>,                                | 202273 | 3    |
| 1,2-Dichloroethane                    | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/26/10 20:46 | )                                     | 202273 |      |
| 1,2-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.089 | 1        | NA        | 5/26/10 20:46 | 5                                     | 202273 | 3    |
| 1,2-Dichloropropane                   | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:46 | 5                                     | 202273 | 3    |
| 1,3-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/26/10 20:46 | 5                                     | 202273 | 3    |
| 1,4-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.085 | 1        | NA        | 5/26/10 20:46 | 5                                     | 202273 | 3    |
| 2-Butanone (MEK)                      | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/26/10 20:46 | 5                                     | 202273 | 3    |
| 2-Hexanone                            | 5.0 U    | 5.0 | 0.51  | 1        | NA        | 5/26/10 20:46 |                                       | 202273 |      |
| 4-Methyl-2-pentanone                  | 5.0 U    | 5.0 | 0.56  | 1        | NA        | 5/26/10 20:46 | 5                                     | 202273 | 3    |
| Acetone                               | 5.0 UU(  | 5.0 | 0.69  | 1        | NA        | 5/26/10 20:46 | 5                                     | 202273 | 3    |
| Benzene                               | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 20:46 | 5                                     | 20227  | 3    |
| Bromochloromethane                    | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:46 | 5                                     | 20227  | 3    |
| Bromodichloromethane                  | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:46 | 6                                     | 20227  | 3    |
| Bromoform                             | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:46 | 5                                     | 20227  | 3    |
| Bromomethane                          | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:46 | 5                                     | 20227  | 3    |
| Carbon Disulfide                      | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:40 | 5                                     | 20227  | 3    |
| Carbon Tetrachloride                  | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:40 | 5                                     | 20227  | 3    |
| Chlorobenzene                         | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:40 | 5                                     | 20227  | 3    |
| Chloroethane                          | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/26/10 20:40 | 5                                     | 20227  | 3    |
| Chloroform                            | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:40 | 5                                     | 20227  | 3    |
| Chloromethane                         | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 20:40 |                                       | 20227  |      |
| cis-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:40 |                                       | 20227  |      |
| cis-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.079 | 1        | NA        | 5/26/10 20:40 | 5                                     | 20227  | 3    |
| Dibromochloromethane                  | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:40 |                                       | 20227  |      |
| Ethylbenzene                          | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 20:40 |                                       | 20227  |      |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/20/10 0850           Date Received:         5/21/10 |
|---------------------------------------|--|---|
| Sample Name:                          | 14D  | Units: μg/L   |
| Lab Code:                             | R1002703-010   | Basis: NA   |

# Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | IS   |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:46 | )          | 202273  |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  | ;    |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 20:46 | 5          | 202273  | 5    |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 20:46 | 6          | 202273  | ;    |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 20:46 | 5          | 202273  | 3    |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:46 | 5          | 202273  | 3    |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 20:40 | 5          | 202273  | 3    |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 20:40 | 5          | 202273  | 3    |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 20:40 | 5          | 202273  | 3    |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 20:40 | 5          | 202273  | 3    |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 94   | 80-120            | 5/26/10 20:46      |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water   | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/21/10 |
|---------------------------------------|--|---|--------------------|
|                                       | Tentatively Identified Compour<br>Low Level Water Volatile Organic Com | ids (TIC)<br>pounds by GC/MS  |                    |
| Sample Name:<br>Lab Code:             | 14D<br>R1002703-010  | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1  |   |                    |
| CAS # Anal                            | lyte Name RT Result Q  |   |                    |
| <u></u>                               | No Tentatively Identified Compounds Detected.                          |   |                    |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/20/10 0920           Date Received:         5/21/10 |
|---------------------------------------|--|---|
| Sample Name:                          | 11D  | Units: µg/L   |
| Lab Code:                             | R1002703-011   | Basis: NA   |

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                                       |                     |        |     |       | Dilution | Date      | Date          | Extraction | -      |      |
|---------------------------------------|---------------------|--------|-----|-------|----------|-----------|---------------|------------|--------|------|
| Analyte Name                          | Result              | Q      | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        |        | Note |
| 1,1,1-Trichloroethane (TCA)           | 1.0                 | U      | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 |            | 202273 |      |
| 1,1,2,2-Tetrachloroethane             | 1.0                 |        | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 |            | 202273 |      |
| 1,1,2-Trichloroethane                 | 1.0                 | U      | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 |            | 202273 |      |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0                 | U      | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 |            | 202273 |      |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0                 |        | 1.0 | 0.17  | 1        | NA        | 5/26/10 21:23 |            | 202273 |      |
| 1,2,3-Trichlorobenzene                | 1.0                 | U      | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 | ;<br>      | 202273 |      |
| 1,2,4-Trichlorobenzene                | 1.0                 | U      | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:23 |            | 202273 |      |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0                 | U      | 1.0 | 0.34  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 |      |
| 1,2-Dibromoethane                     | 1.0                 | U      | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| 1.2-Dichloroethane                    | 1.0                 | U      | 1.0 | 0.057 | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| 1,2-Dichlorobenzene                   | 1.0                 | U      | 1.0 | 0,089 | 1        | NA        | 5/26/10 21:23 | 3          | 202273 |      |
| 1,2-Dichloropropane                   | 1.0                 | U      | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| 1,3-Dichlorobenzene                   | 1.0                 | U      | 1.0 | 0.092 | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| 1,4-Dichlorobenzene                   | 1.0                 | U      | 1.0 | 0.085 | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| 2-Butanone (MEK)                      | 5.0                 | U      | 5.0 | 0.75  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| 2-Hexanone                            | 5.0                 | U      | 5.0 | 0.51  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 |      |
| 4-Methyl-2-pentanone                  | 5.0                 | U      | 5.0 | 0.56  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 |      |
|                                       | 5.0 <del>0.73</del> | -BJ UJ | 5.0 | 0.69  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Benzene                               | 1.0                 |        | 1.0 | 0.098 | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Bromochloromethane                    | 1.0                 | U      | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Bromodichloromethane                  | 1.0                 | U      | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Bromoform                             | 1.0                 | U      | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Bromomethane                          | 1.0                 | U      | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Carbon Disulfide                      | 1.0                 | U      | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Carbon Tetrachloride                  | 11                  |        | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Chlorobenzene                         | 1.0                 | U      | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Chloroethane                          | 1.0                 | U      | 1.0 | 0.21  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Chloroform                            | 1.3                 |        | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Chloromethane                         | 1.0                 | U      | 1.0 | 0.12  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| cis-1,2-Dichloroethene                | 1.0                 | U      | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| cis-1,3-Dichloropropene               | 1.0                 | U      | 1.0 | 0.079 | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |
| Dibromochloromethane                  | 1.0                 |        | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:23 |            | 202273 |      |
| Ethylbenzene                          | 1.0                 |        | 1.0 | 0.13  | 1        | NA        | 5/26/10 21:23 | 3          | 202273 | 3    |

#### **Comments:**

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/20/10 0920           Date Received:         5/21/10 |
|---------------------------------------|--|---|
| Sample Name:                          | 11D  | Units: μg/L   |
| Lab Code:                             | R1002703-011   | Basis: NA   |

# Low Level Water Volatile Organic Compounds by GC/MS

# Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | S        |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|----------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note     |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  |          |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  |          |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  |          |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | I.       |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | ł        |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  |          |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | 5        |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | <b>;</b> |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | 5        |
| Trichloroethene (TCE)                   | 1.5      | 1.0 | 0.16  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | 3        |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | 3        |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 21:23 | 3          | 202273  | 3        |

|                      | 0 ( <b>D</b> | Control | Date          | 0 | Note |      |
|----------------------|--------------|---------|---------------|---|------|------|
| Surrogate Name       | %Rec         | Limits  | Analyzed      | V | Note | <br> |
| 4-Bromofluorobenzene | 91           | 80-120  | 5/26/10 21:23 |   |      |      |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/21/10 |
|---------------------------------------|--|---|--------------------|
|                                       | Tentatively Identified Compo   | ounds (TIC)   |                    |
|                                       | Low Level Water Volatile Organic Co                                  | ompounds by GC/MS   |                    |
| Sample Name:                          | 11D  | Units:  | μg/L               |
| Lab Code:                             | R1002703-011   | Basis:  | NA                 |
| Analytical Method:                    | CLP-VOA OLC02.1  |   |                    |
| CAS # Anal                            | vte Name RT Result Q   | 2   |                    |
|                                       | No Tentatively Identified Compounds Detected.                        |   |                    |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Project:GE MRFA/138165Sample Matrix:WaterSample Name:DGC-4SLab Code:R1002703-012

 Service Request:
 R1002703

 Date Collected:
 5/20/10 1010

 Date Received:
 5/21/10

Units: µg/L Basis: NA

# Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| Anarytical Wethou. CEI - VOI          |          |                     |     |       | Dilution | Date | Date          | <b>Extraction Analysis</b> |
|---------------------------------------|----------|---------------------|-----|-------|----------|------|---------------|----------------------------|
| Analyte Name                          | Result   | Q                   | MRL | MDL   | Factor   |      | Analyzed      | Lot Lot Note               |
| 1,1,1-Trichloroethane (TCA)           | 1.0      | U                   | 1.0 | 0.14  | 1        | NA   | 5/26/10 21:59 |                            |
| 1,1,2,2-Tetrachloroethane             | 1.0      | U                   | 1.0 | 0.12  | 1        | NA   | 5/26/10 21:59 |                            |
| 1,1,2-Trichloroethane                 | 1.0      | U                   | 1.0 | 0.11  | 1        | NA   | 5/26/10 21:59 |                            |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0      | U                   | 1.0 | 0,11  | 1        | NA   | 5/26/10 21:59 |                            |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0      | U                   | 1.0 | 0.17  | 1        | NA   | 5/26/10 21:59 |                            |
| 1,2,3-Trichlorobenzene                | 1.0      | U                   | 1.0 | 0.18  | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 1.2.4-Trichlorobenzene                | 1.0      | U                   | 1.0 | 0.13  | 1        | NA   | 5/26/10 21:59 |                            |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) |          | U                   | 1.0 | 0.34  | 1        | NA   | 5/26/10 21:59 |                            |
| 1,2-Dibromoethane                     | 1.0      | U                   | 1.0 | 0.14  | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 1.2-Dichloroethane                    | 1.0      | U                   | 1.0 | 0.057 | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 1.2-Dichlorobenzene                   |          | Ū                   | 1.0 | 0.089 | 1        | NA   | 5/26/10 21:59 |                            |
| 1,2-Dichloropropane                   |          | Ū                   | 1.0 | 0.15  | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 1,3-Dichlorobenzene                   | 1.0      | U U                 | 1.0 | 0.092 | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 1,4-Dichlorobenzene                   |          | Ū                   | 1.0 | 0.085 | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 2-Butanone (MEK)                      |          | U                   | 5.0 | 0.75  | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 2-Hexanone                            | 5.0      | ) U                 | 5.0 | 0.51  | 1        | NA   | 5/26/10 21:59 | 202273                     |
| 4-Methyl-2-pentanone                  | 5.0      | U                   | 5.0 | 0.56  | 1        | NA   | 5/26/10 21:59 |                            |
| Acetone                               | 5.0 0.94 | ⊢ <del>B</del> J UJ | 5.0 | 0.69  | 1        | NA   | 5/26/10 21:59 | 202273                     |
| Benzene                               | 1.0      | ) U                 | 1.0 | 0.098 | 1        | NA   | 5/26/10 21:59 | 202273                     |
| Bromochloromethane                    |          | ) U                 | 1.0 | 0.18  | 1        | NA   | 5/26/10 21:59 | 9 202273                   |
| Bromodichloromethane                  |          | ) U                 | 1.0 | 0.15  | 1        | NA   | 5/26/10 21:59 | 202273                     |
| Bromoform                             | 1.0      | ) U                 | 1.0 | 0.14  | 1        | NA   | 5/26/10 21:59 | 9 202273                   |
| Bromomethane                          |          | ) U                 | 1.0 | 0.12  | 1        | NA   | 5/26/10 21:59 | 9 202273                   |
| Carbon Disulfide                      | 1.0      | ) U                 | 1.0 | 0.16  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| Carbon Tetrachloride                  | 1.0      | ) U                 | 1.0 | 0.12  | 1        | NA   | 5/26/10 21:59 | 9 202273                   |
| Chlorobenzene                         | 1.0      | ) U                 | 1.0 | 0.14  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| Chloroethane                          | 1.0      | ) U                 | 1.0 | 0.21  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| Chloroform                            | 1.0      | ) U                 | 1.0 | 0.15  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| Chloromethane                         |          | ) U                 | 1.0 | 0.12  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| cis-1,2-Dichloroethene                | 1.0      | ) U                 | 1.0 | 0.11  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| cis-1,3-Dichloropropene               | 1.(      | ) U                 | 1.0 | 0.079 | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| Dibromochloromethane                  |          | ) U                 | 1.0 | 0.13  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |
| Ethylbenzene                          |          | ) U                 | 1.0 | 0.13  | 1        | NA   | 5/26/10 21:5  | 9 202273                   |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/20/10 1010           Date Received:         5/21/10 |
|---------------------------------------|--|---|
| Sample Name:                          | DGC-4S   | Units: µg/L   |
| Lab Code:                             | R1002703-012   | Basis: NA   |

# Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| Analyte Name                            | Result Q | MRL | MDL   | Dilution<br>Factor | Date<br>Extracted |               | Extraction<br>Lot | -      | s<br>Note |
|---|----------|-----|-------|--------------------|-------------------|---------------|-------------------|--------|-----------|
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 21:59 |                   | 202273 |           |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1                  | NA                | 5/26/10 21:59 | )                 | 202273 |           |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 21:59 | )                 | 202273 |           |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1                  | NA                | 5/26/10 21:59 | )                 | 202273 |           |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1                  | NA                | 5/26/10 21:59 | )                 | 202273 |           |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1                  | NA                | 5/26/10 21:59 | 7                 | 202273 |           |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1                  | NA                | 5/26/10 21:59 | 9                 | 202273 |           |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 21:59 | 9                 | 202273 |           |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1                  | NA                | 5/26/10 21:59 | 9                 | 202273 |           |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1                  | NA                | 5/26/10 21:59 | 9                 | 202273 |           |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1                  | NA                | 5/26/10 21:59 | 9                 | 202273 | 5         |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1                  | NA                | 5/26/10 21:59 | 9                 | 202273 | <b>.</b>  |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed O | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 92   | 80-120            | 5/26/10 21:59      |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water                          | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/21/10 |
|---------------------------------------|---|---|--------------------|
|                                       | Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |   |                    |
| Sample Name:<br>Lab Code:             | DGC-4S<br>R1002703-012  | Units:<br>Basis:  |                    |
| Analytical Method:                    | CLP-VOA OLC02.1   |   |                    |
| CAS # Anal                            | yte Name RT Result Q  |   |                    |
|                                       | No Tentatively Identified Compounds Detected.   | <u> </u>  |                    |

Analytical Report

Client:Shaw Environmental & Infrastructure, Inc.Service Request:R1002703Project:GE MRFA/138165Date Collected:5/20/10 1045Sample Matrix:WaterDate Received:5/21/10Sample Name:DGC-3SUnits:μg/LLab Code:R1002703-013Basis:NA

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|                              |         |       |     |               | Dilution | Date      |                                | Extraction Analy |      |
|------------------------------|---------|-------|-----|---------------|----------|-----------|--------------------------------|------------------|------|
| Analyte Name                 | Result  | Q     | MRL | MDL           | Factor   | Extracted | Analyzed                       |                  | Note |
| 1,1,1-Trichloroethane (TCA)  | 1.0     | U     | 1.0 | 0.14          | 1        | NA        | 5/26/10 22:36                  |                  |      |
| 1,1,2,2-Tetrachloroethane    | 1.0     |       | 1.0 | 0.12          | 1        | NA        | 5/26/10 22:36                  |                  |      |
| 1,1,2-Trichloroethane        | 1.0     | U     | 1.0 | 0.11          | 1        | NA        | 5/26/10 22:36                  |                  |      |
| 1.1-Dichlorocthane (1,1-DCA) | 1.0     | U     | 1.0 | 0.11          | 1        | NA        | 5/26/10 22:36                  |                  |      |
| 1,1-Dichloroethene (1,1-DCE) | 1.0     | U     | 1.0 | 0.17          | 1        | NA        | 5/26/10 22:36                  |                  |      |
| 1,2,3-Trichlorobenzene       | 1.0     | U     | 1.0 | 0.18          | 1        | NA        | 5/26/10 22:36                  | 2022             | 73   |
| 1,2,4-Trichlorobenzene       | 1.0     | U     | 1.0 | 0.13          | 1        | NA        | 5/26/10 22:36                  |                  |      |
| 1,2-Dibromo-3-chloropropane  | 1.0     | U     | 1.0 | 0.34          | 1        | NA        | 5/26/10 22:36                  | 5 2022           | 73   |
| (DBCP)                       | 1.0     | TI    | 1.0 | 0.14          | 1        | NA        | 5/26/10 22:36                  | 5 2022           | 73   |
| 1,2-Dibromoethane            |         |       |     |               |          |           | 5/26/10 22:36                  |                  |      |
| 1,2-Dichloroethane           | 1.0     |       | 1.0 | 0.057         | 1        | NA        | 5/26/10 22:30                  |                  |      |
| 1,2-Dichlorobenzene          | 1.0     |       | 1.0 | 0.089<br>0.15 | 1<br>1   | NA<br>NA  | 5/26/10 22:30                  |                  |      |
| 1,2-Dichloropropane          | 1.0     |       | 1.0 |               |          |           |                                |                  |      |
| 1,3-Dichlorobenzene          | 1.0     |       | 1.0 | 0.092         | 1        | NA        | 5/26/10 22:36                  |                  |      |
| 1,4-Dichlorobenzene          | 1.0     |       | 1.0 | 0.085         | 1        | NA        | 5/26/10 22:30<br>5/26/10 22:30 |                  |      |
| 2-Butanone (MEK)             |         | U     | 5.0 | 0.75          | 1        | NA        |                                |                  |      |
| 2-Hexanone                   |         | U     | 5.0 | 0.51          | 1        | NA        | 5/26/10 22:30                  |                  |      |
| 4-Methyl-2-pentanone         |         | U     | 5.0 | 0.56          | 1        | NA        | 5/26/10 22:30                  |                  |      |
| Acetone                      | 5.0 1.5 | -BFUJ | 5.0 | 0.69          | 1        | NA        | 5/26/10 22:30                  |                  |      |
| Benzene                      |         | U     | 1.0 | 0.098         | 1        | NA        | 5/26/10 22:30                  |                  |      |
| Bromochloromethane           |         | U     | 1.0 | 0.18          | 1        | NA        | 5/26/10 22:30                  |                  |      |
| Bromodichloromethane         | 1.0     | U     | 1.0 | 0.15          | 1        | NA        | 5/26/10 22:30                  |                  |      |
| Bromoform                    |         | U     | 1.0 | 0.14          | 1        | NA        | 5/26/10 22:30                  |                  |      |
| Bromomethane                 |         | U     | 1.0 | 0.12          | 1        | NA        | 5/26/10 22:30                  |                  |      |
| Carbon Disulfide             | 1.0     | U     | 1.0 | 0.16          | 1        | NA        | 5/26/10 22:3                   | 6 2022           | 73   |
| Carbon Tetrachloride         | 1.0     | U     | 1.0 | 0,12          | 1        | NA        | 5/26/10 22:3                   |                  |      |
| Chlorobenzene                | 1.0     | U     | 1.0 | 0.14          | 1        | NA        | 5/26/10 22:3                   |                  |      |
| Chloroethane                 | 1.0     | U     | 1.0 | 0.21          | 1        | NA        | 5/26/10 22:3                   | 6 2022           | 73   |
| Chloroform                   | 1.0     | U     | 1.0 | 0.15          | 1        | NA        | 5/26/10 22:3                   |                  |      |
| Chloromethane                | 1.0     | U     | 1.0 | 0.12          | 1        | NA        | 5/26/10 22:3                   |                  |      |
| cis-1,2-Dichloroethene       | 1.0     | U     | 1.0 | 0.11          | 1        | NA        | 5/26/10 22:3                   | 6 2022           | 73   |
| cis-1,3-Dichloropropene      |         | U     | 1.0 | 0.079         | 1        | NA        | 5/26/10 22:3                   |                  |      |
| Dibromochloromethane         |         | U     | 1.0 | 0.13          | 1        | NA        | 5/26/10 22:3                   |                  |      |
| Ethylbenzene                 | 1.0     | U     | 1.0 | 0.13          | 1        | NA        | 5/26/10 22:3                   | 6 2022           | 73   |
| Ethylbenzene                 | 1.0     | U     | 1.0 | 0.13          | 1        | NA        | 5/26/10/22:3                   | 0 2022           | 13   |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/20/10 1045           Date Received:         5/21/10 |
|---------------------------------------|--|---|
| Sample Name:                          | DGC-3S   | Units: µg/L   |
| Lab Code:                             | R1002703-013   | Basis: NA   |

# Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | S    |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 22:36 |            | 202273  |      |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 22:36 | )          | 202273  |      |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 22:36 | 5          | 202273  |      |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 22:30 | ó          | 202273  | 5    |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 22:36 | <u>ó</u>   | 202273  | 3    |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 22:36 | 5          | 202273  | 3    |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 22:30 | 5          | 202273  | 3    |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 22:30 | 5          | 202273  | 3    |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 22:30 | ó          | 202273  | 3    |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Note |  |
|----------------------|------|-------------------|--------------------|------|--|
| 4-Bromofluorobenzene | 91   | 80-120            | 5/26/10 22:36      |      |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix:   | Shaw Environmental & Infrast<br>GE MRFA/138165<br>Water | ructure, Inc. |          |   | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/21/10 |  |  |  |  |  |
|---|---|---------------|----------|---|---|--------------------|--|--|--|--|--|
| Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |   |               |          |   |   |                    |  |  |  |  |  |
| Sample Name:<br>Lab Code:   | DGC-3S<br>R1002703-013                                  |               |          |   | Units:<br>Basis:  |                    |  |  |  |  |  |
| Analytical Method:  | CLP-VOA OLC02.1   |               |          |   |   |                    |  |  |  |  |  |
| CAS # Anal  | yte Name  | RT            | Result   | Q |   |                    |  |  |  |  |  |
|   | No Tentatively Identified                               | Compounds I   | etected. |   |   |                    |  |  |  |  |  |

Analytical Report

Shaw Environmental & Infrastructure, Inc. Client: GE MRFA/138165 **Project:** Water Sample Matrix: Trip Blank Sample Name: R1002703-014 Lab Code:

Service Request: R1002703 Date Collected: 5/20/10 Date Received: 5/21/10

> Units: µg/L Basis: NA

### Low Level Water Volatile Organic Compounds by GC/MS

### Analytical Method: CLP-VOA OLC02.1

| Analytical Method. CEL VOIL C         |          |     |       | Dilution | Date      | Date          | Extraction |        |          |
|---------------------------------------|----------|-----|-------|----------|-----------|---------------|------------|--------|----------|
| Analyte Name                          | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        |        | Note     |
| 1,1,1-Trichloroethane (TCA)           | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 23:12 |            | 202273 |          |
| 1,1,2,2-Tetrachloroethane             | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 23:12 |            | 202273 |          |
| 1,1,2-Trichloroethane                 | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 23:12 |            | 202273 |          |
| 1,1-Dichloroethane (1,1-DCA)          | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 23:12 |            | 202273 |          |
| 1,1-Dichloroethene (1,1-DCE)          | 1.0 U    | 1.0 | 0.17  | 1        | NA        | 5/26/10 23:12 |            | 202273 |          |
| 1,2,3-Trichlorobenzene                | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 23:12 |            | 202273 | <b>;</b> |
| 1,2,4-Trichlorobenzene                | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 23:12 |            | 202273 |          |
| 1,2-Dibromo-3-chloropropane<br>(DBCP) | 1.0 U    | 1.0 | 0.34  | 1        | NA        | 5/26/10 23:12 |            | 202273 |          |
| 1,2-Dibromoethane                     | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 23:12 |            | 202273 | 3        |
| 1,2-Dichloroethane                    | 1.0 U    | 1.0 | 0.057 | 1        | NA        | 5/26/10 23:12 | 2          | 202273 |          |
| 1.2-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.089 | 1        | NA        | 5/26/10 23:12 | 2          | 202273 |          |
| 1,2-Dichloropropane                   | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| 1,3-Dichlorobenzene                   | 1.0 U    | 1.0 | 0.092 | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| 1,4-Dichlorobenzene                   | 1.0 U    | 1.0 | 0,085 | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| 2-Butanone (MEK)                      | 5.0 U    | 5.0 | 0.75  | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| 2-Hexanone                            | 5.0 U    | 5.0 | 0.51  | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| 4-Methyl-2-pentanone                  | 5.0 U    | 5.0 | 0.56  | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| Acetone                               | 1.4 BJ J | 5.0 | 0.69  | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| Benzene                               | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Bromochloromethane                    | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| Bromodichloromethane                  | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 23:12 | 2          | 202273 | 3        |
| Bromoform                             | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Bromomethane                          | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Carbon Disulfide                      | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Carbon Tetrachloride                  | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Chlorobenzene                         | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Chloroethane                          | 1.0 U    | 1.0 | 0.21  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Chloroform                            | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| Chloromethane                         | 1.0 U    | 1.0 | 0.12  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| cis-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |
| cis-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.079 | 1        | NA        | 5/26/10 23:12 |            | 20227  |          |
| Dibromochloromethane                  | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 23:12 |            | 20227  |          |
| Ethylbenzene                          | 1.0 U    | 1.0 | 0.13  | 1        | NA        | 5/26/10 23:12 | 2          | 20227  | 3        |

Analytical Report

| Client:<br>Project:<br>Sample Matrix: | Shaw Environmental & Infrastructure, Inc.<br>GE MRFA/138165<br>Water | Service Request:         R1002703           Date Collected:         5/20/10           Date Received:         5/21/10 |
|---------------------------------------|--|--|
| Sample Name:                          | Trip Blank   | Units: μg/L  |
| Lab Code:                             | R1002703-014   | Basis: NA  |

# Low Level Water Volatile Organic Compounds by GC/MS

#### Analytical Method: CLP-VOA OLC02.1

|   |          |     |       | Dilution | Date      | Date          | Extraction | Analysi | is   |
|---|----------|-----|-------|----------|-----------|---------------|------------|---------|------|
| Analyte Name                            | Result Q | MRL | MDL   | Factor   | Extracted | Analyzed      | Lot        | Lot     | Note |
| Hexachlorobutadiene                     | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 5    |
| m,p-Xylenes                             | 1.0 U    | 1.0 | 0.22  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| Dichloromethane (Methylene<br>Chloride) | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | }    |
| o-Xylene                                | 1.0 U    | 1.0 | 0.11  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| Styrene                                 | 1.0 U    | 1.0 | 0.096 | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| Tetrachloroethene (PCE)                 | 1.0 U    | 1.0 | 0.15  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| Toluene                                 | 1.0 U    | 1.0 | 0.098 | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| trans-1,2-Dichloroethene                | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| trans-1,3-Dichloropropene               | 1.0 U    | 1.0 | 0.060 | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| Trichloroethene (TCE)                   | 1.0 U    | 1.0 | 0.16  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| Trichlorofluoromethane (CFC 11)         | 1.0 U    | 1.0 | 0.18  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |
| Vinyl Chloride                          | 1.0 U    | 1.0 | 0.14  | 1        | NA        | 5/26/10 23:12 | 2          | 202273  | 3    |

| Surrogate Name       | %Rec | Control<br>Limits | Date<br>Analyzed Q | Q Note |  |
|----------------------|------|-------------------|--------------------|--------|--|
| 4-Bromofluorobenzene | 88   | 80-120            | 5/26/10 23:12      |        |  |

Analytical Report

| Client:<br>Project:<br>Sample Matrix:   | Shaw Environmental & Infras<br>GE MRFA/138165<br>Water | structure, Inc |           | Service Request:<br>Date Collected:<br>Date Received:<br>Date Analyzed: | 5/20/10<br>5/21/10 |  |  |  |  |  |  |
|---|--|----------------|-----------|---|--------------------|--|--|--|--|--|--|
| Tentatively Identified Compounds (TIC)<br>Low Level Water Volatile Organic Compounds by GC/MS |  |                |           |   |                    |  |  |  |  |  |  |
| Sample Name:<br>Lab Code:   | Trip Blank<br>R1002703-014                             |                |           | Units:<br>Basis:  |                    |  |  |  |  |  |  |
| Analytical Method:  | CLP-VOA OLC02.1  |                |           |   |                    |  |  |  |  |  |  |
| CAS # Anal  | yte Name   | RT             | Result Q  |   |                    |  |  |  |  |  |  |
|   | No Tentatively Identified                              | I Compounds 1  | Detected. |   |                    |  |  |  |  |  |  |

### Columbia Analytical Services

### METALS -1-INORGANIC ANALYSIS DATA SHEET

|                            | INORGANIC ANALYSIS DATA SHEET | SAMPLE NO.   |
|----------------------------|-------------------------------|--------------|
|                            |                               | 13D          |
| Contract: R1002703         |                               |              |
| Lab Code: Case No          | SAS No.:                      | SDG NO.: 4D  |
| Matrix (soil/water): WATER | Lab Sample ID:                | R1002703-004 |
| Level (low/med): LOW       | Date Received:                | 5/20/2010    |
|                            |                               |              |

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | С | Q | м |
|-----------|----------|---------------|---|---|---|
| 7440-47-3 | Chromium | 3.4           | J |   | P |

| Color Before: | COLORLESS | Clarity Before: | CLEAR                                 | Texture:   |  |
|---------------|-----------|-----------------|---------------------------------------|------------|--|
| Color After:  | COLORLESS | Clarity After:  | CLEAR                                 | Artifacts: |  |
| Comments:     | <u></u>   |                 | · · · · · · · · · · · · · · · · · · · | ·          |  |
|               |           |                 | <u>.</u>                              |            |  |

### Columbia Analytical Services

### METALS -1-INORGANIC ANALYSIS DATA SHEET

|                            | INORGANIC ANALYSIS DATA SHEET | SAMPLE NO.   |
|----------------------------|-------------------------------|--------------|
|                            |                               | DUPE A       |
| Contract: R1002703         |                               |              |
| Lab Code: Case No          | SAS No.:                      | SDG NO.: 4D  |
| Matrix (soil/water): WATER | Lab Sample ID:                | R1002703-002 |
| Level (low/med): LOW       | Date Received:                | 5/20/2010    |
|                            |                               |              |

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | С | Q | м |
|-----------|----------|---------------|---|---|---|
| 7440-47-3 | Chromium | 0.861         | J |   | P |

| Color Before: | COLORLESS | Clarity Before:                       | CLEAR | Texture:   |   |
|---------------|-----------|---------------------------------------|-------|------------|---|
| Color After:  | COLORLESS | Clarity After:                        | CLEAR | Artifacts: | _ |
| Comments:     |           |                                       |       |            |   |
|               |           | · · · · · · · · · · · · · · · · · · · |       |            |   |

### Columbia Analytical Services

### METALS -1-INORGANIC ANALYSIS DATA SHEET

|                            | INURGANIC ANALYSIS DATA SI | HEEI SAMPLE NO.    |
|----------------------------|----------------------------|--------------------|
|                            |                            | м-27D              |
| Contract: R1002703         |                            |                    |
| Lab Code: Case No          | SAS No.:                   | SDG NO.: 4D        |
| Matrix (soil/water): WATER | Lab Sampl                  | e ID: R1002703-003 |
| Level (low/med): LOW       | Date Rece                  | sived: 5/20/2010   |

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte  | Concentration | c | Q | м |
|-----------|----------|---------------|---|---|---|
| 7440-47-3 | Chromium | 1.1           | J |   | P |

| Color Before: | COLORLESS                             | Clarity Before: | CLEAR                                 | Texture:   |
|---------------|---------------------------------------|-----------------|---------------------------------------|------------|
| Color After:  | COLORLESS                             | Clarity After:  | CLEAR                                 | Artifacts: |
| Comments:     |                                       |                 |                                       |            |
|               | · · · · · · · · · · · · · · · · · · · |                 | · · · · · · · · · · · · · · · · · · · |            |

Analytical Report

| Client:                   | Shaw Environmental & Infrastructure, Inc. | <b>Service Request:</b> R1002703 |
|---------------------------|---|----------------------------------|
| Project:                  | GE MRFA/138165                            | <b>Date Collected:</b> 5/19/10   |
| Sample Matrix:            | Water                                     | <b>Date Received:</b> 5/20/10    |
| Sample Name:<br>Lab Code: | DUPE A<br>R1002703-002                    | Basis: NA                        |

#### Chromium, Hexavalent (Colorimetric)

| Analyte Name         | Method | Result Q | Units | MRL   | Dilution Date<br>Factor Extracted | Date<br>Analyzed |
|----------------------|--------|----------|-------|-------|-----------------------------------|------------------|
| Chromium, Hexavalent | 7196A  | 0.010 U  | mg/L  | 0.010 | 1 NA                              | 5/20/10 10:41    |

Analytical Report

| Client:                   | Shaw Environmental & Infrastructure, Inc. |
|---------------------------|---|
| Project:                  | GE MRFA/138165                            |
| Sample Matrix:            | Water                                     |
| Sample Name:<br>Lab Code: | M-27D<br>R1002703-003                     |

 Service Request:
 R1002703

 Date Collected:
 5/19/10 1330

 Date Received:
 5/20/10

Basis: NA

#### Chromium, Hexavalent (Colorimetric)

| Analyte Name         | Method | Result Q | Units | MRL   | Dilution Date<br>Factor Extracte | Date<br>ed Analyzed |
|----------------------|--------|----------|-------|-------|----------------------------------|---------------------|
| Chromium, Hexavalent | 7196A  | 0.010 U  | mg/L  | 0.010 | 1 NA                             | 5/20/10 10:41       |

Analytical Report

| Client:        | Shaw Environmental & Infrastructure, Inc. |
|----------------|---|
| Project:       | GE MRFA/138165                            |
| Sample Matrix: | Water                                     |
| Sample Name:   | 13D                                       |
| Lab Code:      | R1002703-004                              |

 Service Request:
 R1002703

 Date Collected:
 5/19/10 1215

 Date Received:
 5/20/10

Basis: NA

#### Chromium, Hexavalent (Colorimetric)

| Analyte Name         | Method | Result Q | Units | MRL   | Dilution<br>Factor | Date<br>Extracted | Date<br>Analyzed |
|----------------------|--------|----------|-------|-------|--------------------|-------------------|------------------|
| Chromium, Hexavalent | 7196A  | 0.010 U  | mg/L  | 0.010 | 1                  | NA                | 5/20/10 10:41    |