Fax: 518.783.8397

FINAL SEMI-ANNUAL O&M REPORT REMEDIAL WORK ELEMENTS I, II AND IV REPORTING PERIOD JANUARY 1THROUGH JUNE 30, 2009

Malta Rocket Fuel Area Site Malta, New York

August 5, 2009

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.

Brian Neumann, PG, CPG

Mare E. F.

Men Mullin

Project Manager

Jennifer Flanagan Project Scientist

Tenny Floragar

Marc E. Flanagan

Lead Operator/Project Geologist

TABLE OF CONTENTS _____

1.0	INTRODUCTION	1
2.0	O&M OF REMEDIAL WORK ELEMENT I (DRINKING WATER)	2
2.1	Remote Telemetry/Programmable Logic Controller	2
2.2		3
2	2.2.1 Recovery Well Pump Inspection	
2	2.2.2 100,000 Gallon Reservoir Inspection	
2	2.2.3 Air Stripper Tower Inspection	4
2.3		
2	2.3.1 Water Flow Measurements	4
2	2.3.2 Blower Air Pressure	5
2.4	· · · · · · · · · · · · · · · · · · ·	
	2.4.1 Sample Collection	
2	2.4.2 VOC Analytical Results	5
3.0	O&M OF REMEDIAL WORK ELEMENT II (GROUNDWATER)	7
3.1	Sample Collection	7
3.2		
3.3		
3.4	Comparison of Observed VOC Concentrations to Simulation Results	9
4.0	INSTITUTIONAL CONTROLS	10
5.0	SUMMARY	11
5.1 5.2	Drinking WaterEarly Warning Monitoring System (EWMS)	

LIST OF TABLES

- 1 Maintenance Checklist
- 2 Equipment Log
- 3 Process Operating Report
- 4 Summary of Drinking Water Sampling Program, Preservatives, Holding Times and Containers
- 5 May 2009 Water Quality Analytical Results
- 6 Summary of Water Quality Analytical Results, Monitoring Wells DGC-3S, DGC-4S, and 13S
- 7 Summary of Water Quality Analytical Results, Monitoring Wells M-27S, M-27D, M-33S and M-33I
- 8 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 (May 2009) Carbon Tetrachloride Concentrations at Well M-27D

LIST OF APPENDICES_____

- A. Laboratory Data, Influent/Effluent Water Samples, February 13, 2009
- B. Laboratory Data, Groundwater Samples May 12 and 13, 2009 and Laboratory Data, Influent/Effluent Water Samples, May 13, 2009
- C. Data Validation Reports
- D. Air Stripper Flow Data

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:

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

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, 2009.

2.0 O&M OF REMEDIAL WORK ELEMENT I (Drinking Water)

According to the provisions of the <u>Operation and Maintenance Manual, Remedial Work Element 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 27, February 13, March 9, April 15, May 13, and June 3, 2009.

The groundwater treatment system is comprised of a packed tower air stripper. System influent and effluent samples were collected during the February 13 and May 13, 2008 site visits to document adherence to the treatment system discharge objectives. Analytical results from these sample events, including validated analytical results and chain of custody forms, are provided in **Appendices A** and **B**. The validation summary is included in **Appendix C**.

During the reporting period, recovery well RW-2D operated at a daily average flow rate of approximately 0.820 gallons per minute (gpm) (**Appendix D**). As a result of the limited use of the test station, the system's flow rate is less than historically recorded. Early in March 2008 operation of recovery well RW-1D was discontinued due to damage of the pump discharge piping. Details are provided in later sections of this report.

Review of the analytical results for influent and effluent treatment system samples collected in February and May 2009 confirm that during the reporting period, the system's effluent water quality was compliant with the chemical specific effluent requirements presented in the O&M manual. Air stripper blower pressure readings, as well as the effluent water quality data, demonstrate that the air stripper's packing material does not need cleaning or replacement. Additional discussions regarding air stripper flow, air stripper blower pressure readings and water quality sampling are presented below.

2.1 Remote Telemetry/Programmable Logic Controller

To ensure that the system operates continuously, system operating parameters are visually monitored during each of the monthly site visits and on a continual basis by a Remote Telemetry Unit (RTU). During the reporting period, the RTU notified key project personnel of alarm conditions via facsimile and voice messaging.

On January 6, 2009 Shaw received a call from the remote telemetry system identifying low building temperature. Shaw's operator responded to the call and learned the building's furnace was not operating due to no heating oil. The property owner was notified, oil was delivered and the furnace was restarted. During the short period when the furnace was not operating, the property owner used propane heaters to keep the building warm and system remained operational.

On June 3, 2009 a low air stripper blower amperage alarm occurred. The alarm was the result of the blower switch being turned off. Immediately following the low air stripper blower amperage alarm the operating recovery well was automatically turned off. Shaw was then notified of the alarm condition via the remote telemetry system. Shaw mobilized to the site and returned the switch to the "on" position.

The alarm conditions identified by the RTU during the reporting period confirmed the proper operation of the system and the RTU's effectiveness in notifying project personnel of alarm conditions.

2.2 Visual System Inspection

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

Recovery well pump RW-2D was inspected during the May 13, 2009 site visit. Shaw personnel utilized confined space entry procedures to enter well vault and disconnect water supply piping. All system piping and electrical power supplies were locked and tagged out during maintenance

and inspection activities. The pump and associated down well pipe casing were removed by hand. The pump and discharge piping were inspected for corrosion, loose or damaged parts and other signs of wear or damage that would indicate a potential for pump failure.

A light accumulation of debris was observed on the pump intake. Water and a clean cloth were used to remove the debris. No other issues were observed with the pump and it was subsequently re-installed. Following re-installation, the pump was restarted and associated piping was inspected for leaks.

2.2.2 100,000 Gallon Reservoir Inspection

The annual inspection of the 100,000 gallon reservoir was performed on May 13, 2009. 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.

2.2.3 Air Stripper Tower Inspection

Shaw accessed the top section of the air stripper tower on May 13, 2009. The protective cover was removed to allow access to the tower demister and spray nozzle. The demister pad was in good condition with no buildup of any material or precipitate. The spray nozzle was in good condition and did not require cleaning beyond a wipe down. The air stripper tower packing was inspected at the top of the column and determined to be in good condition. No evidence of precipitate accumulation or clogging was observed from the top of the air stripper column.

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: 0.7282 gpm System Avg: 0.7282 gpm Average daily water flow data as recorded by the on-site data logger are provided in **Appendix D**. Information obtained from the data logger indicates an average daily water flow rate of 0.820 gpm for the reporting period. The average water flow rate calculated from field observations (0.7282) is statistically the same to the average daily water flow rate calculated from the data logger (0.820), 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. Readings collected during monthly O&M site visits from the pressure gauge installed to monitor the air stripper back pressure are provided in **Table 3**. Pressure readings ranged from 3.20 to 3.60 inches of water column during the current period. The pressure readings were well within the acceptable range of readings that are specified in the *Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, IT Corporation, Inc., January 15, 2002*. Pressure readings will continue to be monitored in the future to ensure proper system performance.

2.4 Water Quality Data

2.4.1 Sample Collection

Samples of the drinking water system influent and effluent were collected on February 13 and May 13, 2009 and analyzed by Columbia Analytical Laboratories, Inc., of Rochester, New York. Influent and effluent water samples were analyzed for volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method Contract Laboratory Program (CLP) OLC-02, modified to include hexachlorobutadiene, 1,2,3-trichlorobenzene and trichlorofluoromethane as summarized in **Table 4**.

The validated analytical results for the February 13 and May 13, 2009 samples are provided in **Appendices A** and **B**. All validation was performed by Data Validation Services, Inc. of North Creek, New York. Validation reports are included in **Appendix C**.

2.4.2 VOC Analytical Results

The drinking water system effluent sampling results for carbon tetrachloride indicated detections during the February and May sampling events at estimated concentrations of 0.4µg/l and

 $0.19\mu g/l$, respectively. TCE were detected at estimated concentrations of $0.5\mu g/l$ and $0.27\mu g/l$ within the effluent samples collected during the February and May monitoring events. The results for the February and May events qualified as estimated value by the laboratory because the observed concentrations are less than the laboratory method reporting limit. In each case the estimated results are below the performance standards and drinking water quality standards.

The influent concentrations for TCE and carbon tetrachloride observed during this reporting period were similar to the influent concentrations for these compounds observed during the previous reporting period. The drinking water system influent and effluent sample results for TCE and carbon tetrachloride are summarized in the table below.

Analyte	Date Sampled	ate Sampled Influent (µg/l)		Performance Standard (µg/l)
Carbon	February 13, 2009	50	0.4 J	5
Tetrachloride	May 13, 2009	32	0.19 J	5
TCE	February 13, 2009	65	0.5 J	5
	May 13, 2009	50	0.27 J	5

Note: ND = not detected

The air stripper influent chloroform concentrations are similar to the chloroform air stripper influent concentrations observed during the previous reporting period. Chloroform was detected at concentrations of $7 \mu g/l$ and $5.4 \mu g/l$ in the February 13, 2009 and May 13, 2009 air stripper influent samples, respectively. Chloroform was not detected in the air stripper effluent samples collected on February 13, 2009 and May 13, 2009. The drinking water system influent and effluent sample results for chloroform are summarized below.

Analyte	Date Sampled	Influent (µg/l)	Effluent (µg/l)	Criteria (µg/l)	
Chloroform	February 13, 2009	7	ND	70	
	May 13, 2009	5.4	ND	70	

Note: ND = not detected

Based upon analytical data collected during this reporting period, the drinking water system's removal efficiency was greater than 99 percent for all volatile organic analytes.

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-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 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 Superfund site, United States Environmental Protection Agency (EPA), September 24, 2004 (Five Year Review Report) including a table titled <u>"Proposed Modifications to Groundwater and 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.</u>

In accordance with communications between the Luther Forest Development Corporation and the USEPA, monitoring wells M-24S, M-24D, M-33I and M-33S were decommissioned. Monitoring well M-24DR was installed at a new location approved by the USEPA and will be sampled as part of the continued Remedial Work Element II – Groundwater Monitoring Program. **Figure 1** shows the location of the replacement well M-24DR.

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 2009 semi-annual EWMS sampling event are summarized in **Table 5**. 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 6**, **7**, and **8**.

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 2009 at wells 13D and 27D indicated concentrations of 7.1 µg/l and 0.88 µg/l, respectively. These concentrations are below the New York State Ground Water Standard (NYSGWS) of 50 µg/l.

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

3.3 VOC Analytical Results

Carbon tetrachloride was detected in monitoring wells M-24DR, M-25D, M-27D M-29D, 13D and 11D at concentrations of 16 μ g/l, 52 μ g/l, 7.6 μ g/l, 30 μ g/l, 1.1 μ g/l and 11 μ 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 1.4 μ g/l and 2.5 μ g/l, respectively. In addition chloroform was detected at estimated concentrations in monitoring wells M-24DR, M-25D, M-27D and 13D at concentrations of 0.68 μ g/l, 3.8 μ g/l, 0.30 μ g/l, and 0.15 μ g/l, respectively.

TCE was detected in monitoring wells in M-24DR, M-25D, M-27D, M-29D and 11D at concentrations of 49 μ g/l, 93 μ g/l, 11 μ g/l, 11 μ g/l and 1.6 μ g/l respectively. Trichlorofluoromethane was also detected in monitoring well M-27D at an estimated concentration of 0.15 μ g/l. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 3.4 μ g/l. TCE, trichlorofluoromethane and 1,1,1-trichloroethane were not detected at the remainder of the monitoring well locations during this reporting period.

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.

4.0 INSTITUTIONAL CONTROLS

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

5.1 Drinking Water

The drinking water treatment system is operating effectively. The treatment equipment will continue to be monitored as necessary to ensure the continued operation of all components and to maintain a reliable source of water for the Test Station. All of the treatment system effluent samples collected as part of the performance monitoring during the current period were compliant with the performance standards.

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 µg/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 M-29D, 13D and 11D at concentrations of 16 μg/l, 52 μg/l, 7.6 μg/l, 30 μg/l, 1.1 μg/l and 11 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 29D at concentrations of 1.4 μg/l and 2.5 μg/l, respectively. In addition chloroform was detected at estimated concentrations in monitoring wells M-24DR, M-25D, M-27D and 13D at concentrations of 0.68 μg/l, 3.8 μg/l, 0.30 μg/l, and 0.15 μg/l, respectively.
- TCE was detected in monitoring wells in M-24DR, M-25D, M-27D, M-29D and 11D at concentrations of 49 μ g/l, 93 μ g/l, 11 μ g/l, 11 μ g/l and 1.6 μ g/l respectively. Trichlorofluoromethane was also detected in monitoring well M-27D at an estimated concentration of 0.15 μ g/l. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 3.4 μ g/l. TCE, trichlorofluoromethane and 1,1,1-trichloroethane were not detected at the remainder of the monitoring well locations during this reporting period. The NYSGWS for TCE, trichlorofluoromethane and 1,1,1-trichloroethane is 5 μ 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	Item	Action	Frequency	Comments
Well Pump 1D	Pump bowls	Check for signs of iron fouling & impeller wear	Annually	More frequently if problems occur
Well Pump 2D	Pump bowls	Check for signs of iron fouling & impeller 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 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 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 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	Item	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 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 probe float for free range of motion. Remove and inspect for buildup of minerals if resistance is detected.	Monthly	Adjust frequency depending on operating experience
Misc. Guys, Hardware etc.		Inspect	Annually	Adjust frequency depending on operating experience
System Interlocks	Settling Tank High Level	Check for proper operation. System should alarm after pre-set delay period.	Monthly	Adjust frequency depending on operating experience
	Blower Low Pressure			
	Blower Low Amps			
	Building Low Temperature			

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

Date	Operator	Operational Status of System	Work Performed
01/06/09	Brian Neumann	Arrival – OK Departure – OK	Alarm response. System interlock testing performed – all OK. Building was cold, no oil in tank for heater. Site contact was notified.
01/27/09	Brian Neumann	Arrival - OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK.
02/13/09	Marc Flanagan	Arrival – OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK. Collected system samples for VOAs.
03/09/09	Brian Neumann	Arrival – OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK.
04/06/09	Marc Flanagan	Arrival –OK Departure – OK	Arrive on site to develop M-24DR.
04/15/09	Brian Neumann	Arrival – Not OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK.
05/13/09	Marc Flanagan	Arrival – OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK. Collected system samples for VOAs and quarterly groundwater samples.
06/03/09	Marc Flanagan	Arrival - Not OK Departure – OK	Alarm Response. Blower in "off" position upon arrival. Complete monthly O&M visit. System interlock testing performed – all OK.

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

1	2	3					4				5	
DATE	TIME			OWLINE 1	D			WATI	ER FLOWLII		PROBLEMS OR COMMENTS	
		1D LINE	1D LINE	ELAPSED	TOTAL	AVG FLOW	2D LINE	2D LINE	ELAPSED	TOTAL	AVG FLOW	
		FLOW	TOTALIZER	TIME	FLOW	THIS	FLOW	TOTALIZER	TIME	FLOW	THIS	
		METER RDG(GPM)	RDG(GAL)	(DAYS)	THIS PERIOD	PERIOD (GPM)	METER RDG(GPM)	RDG(GAL)	(DAYS)	THIS	PERIOD	
		RDG(GIW)			(GAL)	(GFWI)	KDG(GFM)			PERIOD (GAL)	(GPM)	

12/10/2008	9:10	0.0	4,703,000	21	NA	NA	6.0	6,970,300	21	NA		Recorded in previous report, replicated here for calculation purposes.
12/ 10/ 2000	7.10	0.0	4,7 00,000	21	, NA	11/7	0.0	0,970,300	21	IVA	IVA	ioi calculation purposes.
1/27/2009	13:30	0.0	4,703,000	48	0	0.00	8.5	7,015,800	48	45,500	0.66	RW-1 is on LOTO
2/13/2009	8:15	0.0	4,703,000	17	0	0.00	5.6	7,031,600	17	15,800	0.65	RW-1 is on LOTO
3/9/2009	11:05	0.0	4,703,000	24	0	0.00	6.0	7,054,100	24	22,500	0.65	RW-1 is on LOTO
4/15/2009	10:20	0.0	4,703,000	37	0	0.00	7.0	7,088,900	37	34,800	0.65	RW-1 is on LOTO
5 /10 /0000	T.00	0.0	4 500 000	•	_							
5/13/2009	7:20	0.0	4,703,000	28	0	0.00	6.4	7,113,200	28	24,300	0.60	RW-1 is on LOTO
6/3/2009	9:00	0.0	4,703,000	21	0	0.00	6.5	7,153,800	21	40,600	1.34	RW-1 is on LOTO
Summary		_		100	_	0.0000			4==		0.55	
NR = Not Reco			· wre	175	0	0.0000			175	183,500	0.7282	

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?	
1/27/2009	13:30	12 - 13	Yes	No	Yes-3.6	Monthly O&M visit. Interlock checks OK. RW-1 remains LOTO.
2/13/2009	8:15	12 - 13	Yes	Yes	Yes-3.6	Monthly O&M visit. Interlock checks OK. RW-1 remains LOTO. Quarterly system samples collected.
3/9/2009	11:05	12 - 13	Yes	No	Yes-3.5	Monthly O&M visit. Interlock checks OK. RW-1 remains LOTO.
4/15/2009	10:20	12-13	Yes	No	Yes-3.2	Monthly O&M visit. Interlock checks OK. RW-1 remains LOTO.
5/13/2009	7:20	12-13	Yes	Yes	Yes-3.2	Monthly O&M visit. Interlock checks OK. RW-1 remains LOTO. Quarterly system samples collected.
6/3/2009	9:00	12 - 13	Yes	No	Yes-3.2	Monthly O&M visit. Interlock checks OK. RW-1 remains LOTO. Blower was in OFF position upon arrival.

Notes:

LOTO = Lock Out Tag Out

TABLE 4
SUMMARY OF DRINKING WATER SAMPLING PROGRAM, PRESERVATIVES, HOLDING TIMES AND CONTAINERS
MALTA ROCKET FUEL AREA SITE

Sample	Sampling Frequency	Sample Matrix	Analytical Parameters	Analytical Method Reference ¹	Sample Preservation	Holding Times ²	Containers
Influent	1 per quarter	Water	CLP OLC VOCs	USEPA CLP OLCO2	Hcl, Cool, <4°C	14 days	3 - 40 ml glass vials with teflon septa and plastic screw caps
Effluent	1 per quarter	Water	CLP OLC VOCs	USEPA CLP OLCO2	Hcl, Cool, <4°C	14 days	3 - 40 ml glass vials with teflon septa and plastic screw caps

Notes:

- 1. USEPA CLP OLCO2 analysis modified to include hexachlorobutadiene, 1,2,3 trichlorobenzene and trichlorofluoromethane to match the EWMS ground water analyses.
- 2. Holding times begin at the time of sample collection.

TABLE 5 MAY 2009 WATER QUALITY ANALYTICAL RESULTS SEMI-ANNUAL SAMPLING

Remedial

	Remediai											
	Action						DUPE A			DUPE B		
Compound	Objective	DGC-3S	DGC-4S	4D	11D	13D	(13D)	14 D	M-24DR	(M-24DR)	M-25D	M-27D
Acetone	50	5 UJ	1.9 J	5 UJ	2.8 J	. 5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	7.3 J	5 UJ
Carbon Disulfide	None*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	11	1.1	1.3	1 U	16	14	52	7.6
Chloroform	7	1 U	1 U	1 U	1.4	0.15 J	0.19 J	1 U	0.68 J	0.65 J	3.8 J	0.30 J
2-Butanone	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	25 UJ	5 UJ
Trichloroethene	5	1 U	1 U	1 U	1.6	1 U	1 U	1 U	49	49	93	11
Trichlorofluoromethane	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	0.15 J
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U
1,1-Dichloroethene	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Chromium	50*	NA	NA	NA	NA	7.1	9.3	NA	NA	NA	NA	0.88
Hexavalent Chromium	50*	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	NA	10 U

Field Parameters

pH	 5.91	7.33	9.37	7.17	7.37	 7.10	8.06	 7.59	6.98
Temperature (celsius)	 7.68	9.63	8.98	9.43	9.88	 8.96	8.94	 9.53	9.12
Conductivity (umhos/cm)	 0.04	0.167	0.083	0.308	0.244	 0.224	0.206	 0.345	0.185
Dissolved Oxygen	 7.9	3.73	6.84	8.0	0.0	 10.76	9.90	 5.5	9.8
Turbidity (NTUs)	 159	104	184	20.9	179	 9.8	25.8	 20.8	62.0
Depth To Water (feet)	 11.88	5.59	34.85	27.28	34.25	 40.95	34.45	 27.35	35.95
Ground Water Elevation (feet)	 193.92	200.21	291.65	292.4	295.02	 300.42	286.12	 287.11	268.32

Notes:

- 1. All analytical concentrations are in µg/l (micrograms per liter (ppb)).
- 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.
- 7. D Indentifies all compounds analyzed at a secondary dilution factor.
- 8. NM Not measured due to equipment malfunction.
- 9. NP Not promulgated.

TABLE 5 MAY 2009 WATER QUALITY ANALYTICAL RESULTS SEMI-ANNUAL SAMPLING

	Remedial											
	Action		Trip	Trip	Trip	Cooler						
Compound	Objective	M-29D	Blank	Blank	Blank	Blank	SW-A	SW-B	SW-D	SW-E	SW-F	SW-G
Acetone	50	4.4 J	3.2 J	5 UJ	5 UJ	5 UJ	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	2 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	30	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
Chloroform	7	2.5	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
2-Butanone	5	10 UJ	5 UJ	5 UJ	5 UJ	5 UJ	NA	NA	NA	NA	NA	NA
Trichloroethene	5	11	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	50*	2 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	5	3.4	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NP	2 U	1 U	1 U	1 U	1 U	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

Field	Param	eters
-------	-------	-------

рН	 7.07	 		 NA	NA	NA	NA	NA	NA
Temperature (celsius)	 10.39	 		 NA	NA	NA	NA	NA	NA
Conductivity (umhos/cm)	 0.284	 	40.00	 NA	NA	NA	NA	NA	NA
Dissolved Oxygen	 8.4	 		 NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	 8.7	 		 NA	NA	NA	NA	NA	NA
Depth To Water (feet)	 42.78	 		 NA	NA	NA	NA	NA	NA
Ground Water Elevation (feet)	 291.88	 		 NA	NA	NA	NA	NA	NA

Notes:

- 1. All analytical concentrations are in µg/l (micrograms per liter (ppb)).
- 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.
- 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	NΛ	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	NΛ	NA	NA	NΛ	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	no data	no data	no datu	no data	no data	no data	no data	no data	no data	no data	no data
Carbon Disulfide	None*	**										
Chromium	50*						~ *					
138												
					I	····			1			·
Benzene	0.7*	NA	NA	NA	NA NA	NΛ	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA NA	NA	NA	NΛ	NA	NA	NA	NA	NA NA	NA
Carbon Tetrachloride	5	NA	NΛ	NA	NΛ	NA	NA	NA	NA	NA	NΛ	NA
Chloroform	7	NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Friehlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NΛ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
lexavalent Chromium	50*	NA	NA	NA	NA	NΑ	NA	NA	NA.	NA	NA	

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.

 $V = {\rm Estimated}$ 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.

	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
Chromium	50*	**				ND/0.5Vdp NA	ND NA	ND 15.9	ND 11.9 E	ND ND/ND*	ND ND/ND*	ND/ND dp ND/ND dp
DGC-4S Carbon Disulfide	None*				I	ND/0.5Vdp				T		
***									•			
138	· · · · · · · · · · · · · · · · · · ·											~~~
Benzene	0.7*	NA	NA	NA	NA	2	0.7/0,6 Jdp	ı	ND	ND	ND	ND
Carbon Disulfide	None*	NA 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	6.1	9
Chloroform	7	NA NA	ND	ND	ND	ND	0.8/0.9 Jdp	ND	0,4 J	0,3 J	ND	ND
Trichloroethene	5	NA	ND	ND	ND	ND	ND	0.4 J	0.9	0.6	ND	0,6
Trichlorofluoromethane	5*	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0,5
Chromium	50*	NA	NA	NA	NA	336 V	NA NA	269/261**	316 E/562 E**	282/498**	504/512**	179/172**
Hexavalent Chromium	50*	NA	NA	NΛ	NA	NA.	NA.	280	486/302**	260/310**	NA	287

Notes:

Units are µg/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.

** = Filtered Sample.

	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	NΛ	NA	NΛ	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	NΛ	NA	NA	NA	NA	NA
DGC-4S Carbon Disulfide	None*	4 V	ND	0.3 J	0.2J	ND	ND ND	ND V/ND V dp	ND	ND	ND	ND
				¥*****								
Chromium	50*	8.6 B	48.1/ND*	ND	3.3В	ND	31,2/ND*	ND/ND dp	5.6 B	ND	NA NA	NA NA
13S 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	NA NA
Carbon Tetrachloride	5	16 V	15	10	17	18	20/9 dp	9	9	9	NA NA	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	NA NA
Trichloroethene	5	1 V	2	0.6	ND	2	2/1 dp	0.8	1	0.9	NA NA	NA NA
Trichlorofluoromethane	5*	0.9 V	2	0.5	ND	2	2/1 dp	0.9	1	ND	NA NA	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 = The reported value is less than the CRQL/CRDL but greater than the IDL.

dp = Duplicate sample.

 $\mathbf{E} = \mathbf{E}$ stimated 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.

	Remedial											
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	NΛ	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NΛ	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NΛ	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide Chromium	None* 50*	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA
138												
Benzene	0.7*	NA	NA	1U	IU	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	1U	10	NA	NA	NA	NΛ	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	1U	8	NA	NA	NA	NΛ	NA.	NA	NA
Chloroform	7	NA	NA	10	ıU	NA	NA	NA	NA	NΑ	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NΛ	NA	NA	NA	NA	NA	NΑ
Prichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NΛ
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:

Units are µg/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.

 $\mathbf{E} = \mathbf{E}$ stimated 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.

	Remedial											
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*	NΛ	ÑΛ	NA	NA	NA	NA	NA	NΛ	NA	NA	NΛ
Chromium	50*	NA	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
Carbon Disulfide Chromium	None* 50*	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA	ND NA
13S												
Benzene	0.7*	NA	NA	NA	NA	NA	NA.	NA.	NS	NS	NS	NS
Carbon Disulfide	None*	NΛ	NA	NA	NA	NA	NA NA	NA.	NS	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:

Units are µg/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.

Wells / Compounds	Remedial Action					
DGC-3S	Objective	5/14/2007	10/16/2007	5/15/2008	10/13/2008	5/13/2009
Benzene	0.7*	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA
Carbon Disulfide Chromium	None* 50*	ND NA	ND NA	ND NA	ND NA	ND NA
~~~~~			···			
13S Benzene	0.7*	NS	NS	NS	NS	NS
Carbon Disulfide	None*	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS
Trichlorofluoromethane	5*	NS	NS	NS	NS	NS
Chromium	50*	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS

### Notes:

Units are µg/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.

 $\mathbf{E} = \mathbf{E}$ stimated 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.

# TABLE 7 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - MAY 2009 SEMI-ANNUAL SAMPLING

### Remedial

### Action

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												
M-27S	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
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											-		
VOCs	-	not sampled	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

### Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

J = Estimated concentration.

dp = Duplicate sample.

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

 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.

### TABLE 7 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - MAY 2009 SEMI-ANNUAL SAMPLING

### Remedial

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	NDJ/NDJ dp	ND	ND/0.11Jdp	ND	NA I	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 do	ND	ND .	NA
Carbon Tetrachforide	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
M-27D													
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

M-33S													
VOCs	-	ND	ND	ND	8.0 J	ND	ND	ND	ND	ND	ND	ND	ND
										***************************************			

ND

M-33I														
VOCs	-	ND	ND	ND	4,1 J	ND	Ì							

Notes:

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

ND/ND dp

ND/ND dp

ND

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

ND

J = Estimated concentration.

 $dp = Duplicate\ sample.$ 

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

D = Indentifies compound analyzed at a secondary dilution factor.

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

ND / ND dp

ND

ND / ND dp

ND

ND

ND

** = Filtered Sample.

Hexavalent Chromium

# TABLE 7 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS M-27S, M-27D, M-33S, M-33I JUNE 1992 - MAY 2009 SEMI-ANNUAL SAMPLING

### Remedial

### Action

Objective	10/2005	5/23/2006	10/16/2006	5/14/2007	10/16/2007	5/14/2008	10/13/2008	5/13/2009
None*	NA	NΛ	NA	NA	NA	NA	NA	NA
5	NA	NA	NA	NA	NA	NA	NA	NA
50*	NA	NA	NA	NΛ	NA .	NA	NΛ	NA
50*	NA	NA	NA	NΛ	NΛ	NA	NA	NA
5	13	22	12	15	10	11	9	7.6
7	ND	2	0.76J	2	0.7J	ND	0.6 J	0.30 J
5	ND	ND	ND	ND	ND	ND	ND	ND
5	24	16	21	15	14	13	11	11
5*	1.0	1 J	1.0	U.9J	0.81	0.6J	0.3 J	0.15 J
50*	1.6 B	2.7	1.7 BJ	ND	ND	ND	0.810	0.88
50*	ND	ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	
-	ND	ND	ND	ND	ND	NA	ND	
	None* 5 50* 50* 50* 5 7 5 5 5 5 5 5 5 7	None*   NA	None*	None*	None*   NA	None*   NA	None*   NA	None*   NA

### Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

J = Estimated concentration.

dp = Duplicate sample.

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

D = Indentifies compound analyzed at a secondary dilution factor.

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

### TABLE 8 SUMMARY OF WATER QUALITY ANALYTICAL RESULTS MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D JUNE 1992 - MAY 2009 SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial 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	5/13/200
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11D													
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J
Carbon Tetrachloride	5	ND	6	4.6	13	14	15	12	12	13	11	10	11
Chloroform	7	ND	3	ND	4.0	3.0	4.0	3.0	3	2	ND	2	1.4
Trichloroethene	5	93	7	ND	0.8 J	0.9J	1.3	2.0	ı	1	1	2	1.6
M-24D													
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Carbon Tetrachloride	5	10	0.7	0.59 J	10	10	II	11	10	9	9	10	
Chloroform	7	ND	ND	ND	0.6 J	0.5J	0.5 J	0.44 J	0.4 J	0.4 J	ND	0.3 J	
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
M-24DR								····	***************************************				**********
Acetone	50		**										ND
Carbon Tetrachloride	5	••	••				·						16
Chloroform	7		++										0.68 J
Trichloroethene	5				**		**			-			49
M-25D													.,
Acetone	50	ND	ND R	ND	ND	ND	49 D*	25 ID	ND				
Carbon Tetrachloride	5	48	27R	86,8 D	81 D	91		25 JD	ND	ND	ND	ND	7.3 J
Chloroform	7	ND	3R	8.7	8.0	9.0	76 D* 8 D*	71 D 7 D	60	65	56	52	52
Trichloroethene	5	31	8R	16.1	35 D	37	28 D*	22 D	7	6 34	ND 52	4 79 D	3.8 J
							202	22.0				/9 D	93
M-29D													
Acetone	50	ND	ND R	ND	ND	ND	16 D*	ND	ND	ND	ND	ND	4.4 J
Carbon Tetrachloride	5	79	84	10.8	38 D	37	39 D*	33 D	32	34	33	32	30
Chloroform		ND	14	ND	4.0	5.0	5 D*	4 D	3	3	ND	2	2.5
Trichloroethene	5	19	24	6.0	14	13	14 D*	12 D	11	11	11	10	11
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
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

Units are  $\mu g/I$  (ppb) unless otherwise stated.  $D^* = \text{Concentration determined from a sample dilution.}$ 

Only detected compounds are listed.

J = Estimated concentration.

See Remedial Investigation report for additional (V = Estimated concentration: due to variance to quality

NA = Not analyzed.

control limits.

ND = Not detected.

- - = Not sampled: well installed in March, 2009.

NS = Not sampled.

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

B = The reported value is less than the CRQL/CF* Based on NYSDEC Final Combined Regulatory Impact and Environmental

dp = Duplicate sample.

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

E = Estimated concentration: due to interference. for comparison purposes only.

R = Analysis rejected

** = Filtered Sample.

# **FIGURES**

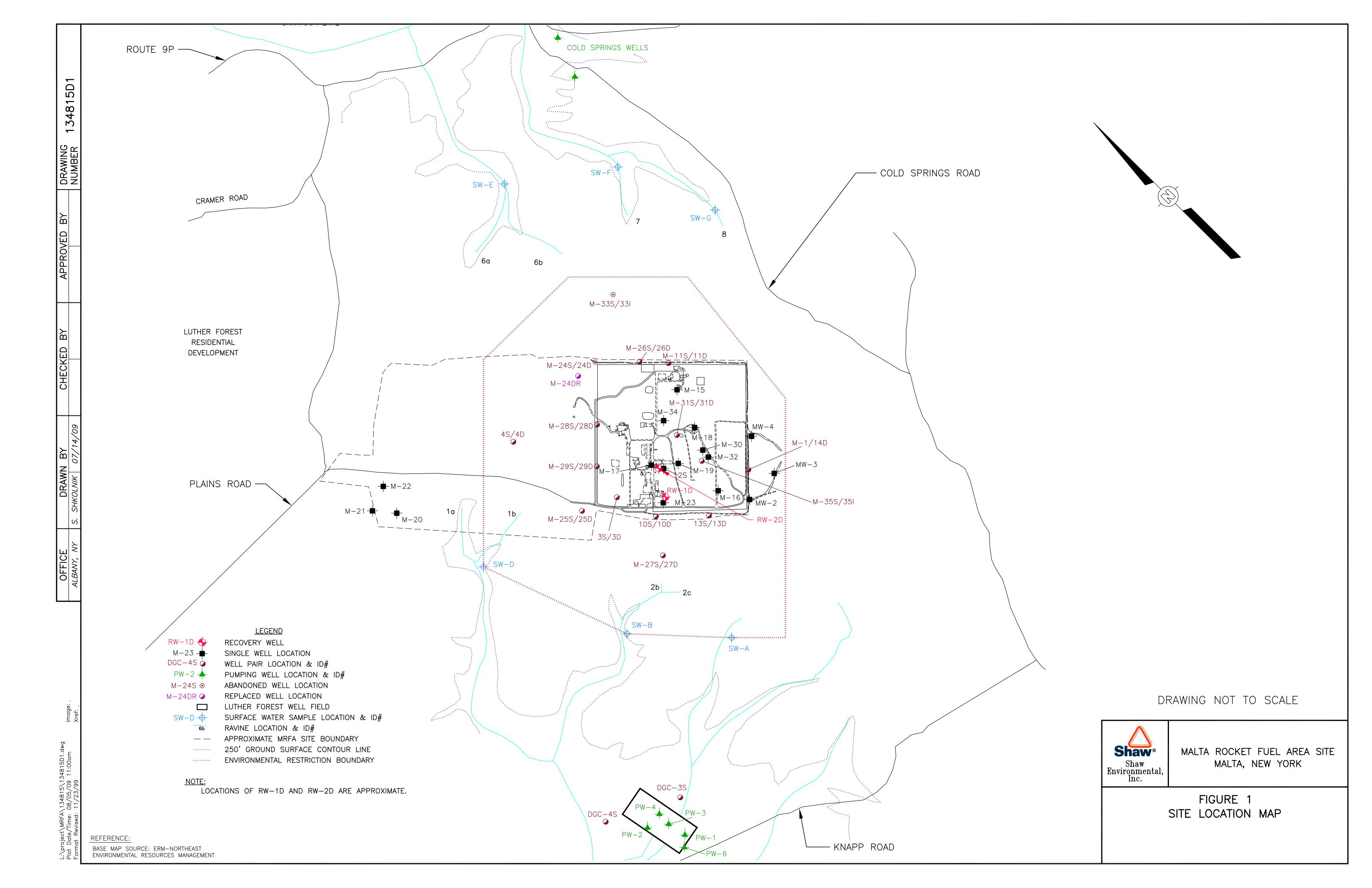


FIGURE 2
WELL M-27D CARBON TETRACHLORIDE CONCENTRATIONS

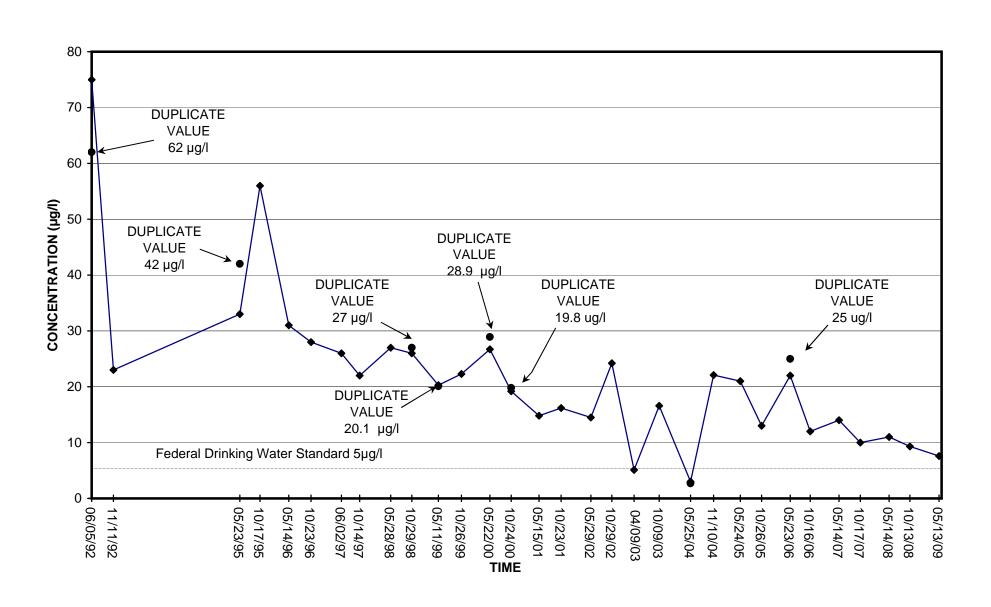
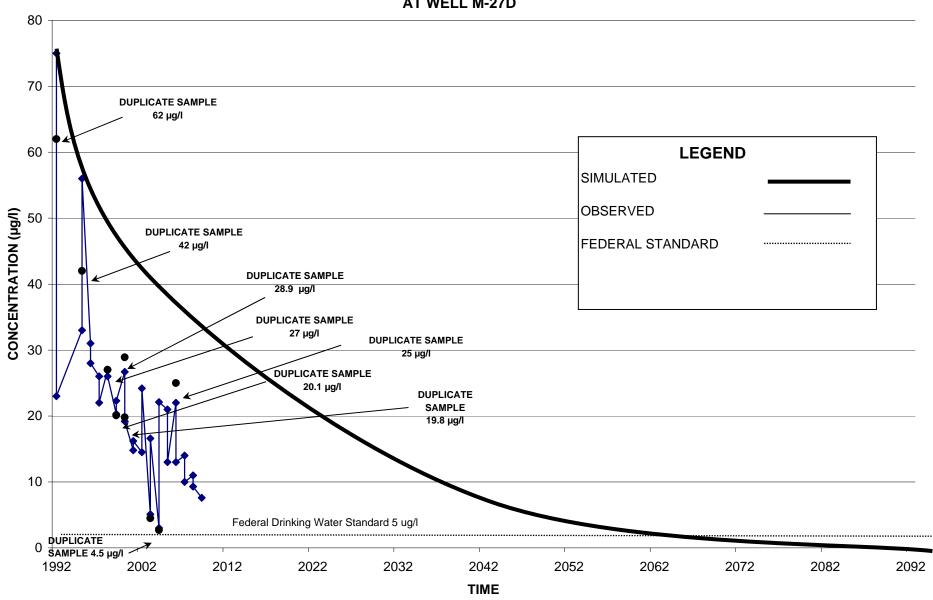


FIGURE 3
SIMULATED VERSUS OBSERVED (MAY 2009)
CARBON TETRACHLORIDE CONCENTRATIONS
AT WELL M-27D



## APPENDIX A

# LABORATORY DATA, INFLUENT/EFFLUENT WATER SAMPLES

FEBRUARY 13, 2009

## QUALIFIED SAMPLE RESULTS FORMS

## **1A VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MDEA INE

Lab Name:	CAS/R	ОСН			Contract:	SHAW	MRFA-INF	L
Lab Code:	10145	C:	ase No.:	R09-833	SAS No	.: S	DG No.: MRFA-	INF
Matrix: (soil/v	water)	WATER			Lab	Sample ID:	R0900833-001 1	.0
Sample wt/vo	ol:	25.0	_ (g/ml)	ML	Lab	File ID:	W4318.D	
Level: (low/n	ned)	LOW	_		Dat	e Received:	2/17/09	
% Moisture: r	not dec.				Dat	e Analyzed:	2/19/09	
GC Column:	DB-VF	RX ID: 0	.18 (m	nm)	Dilu	tion Factor:	1.0	
Soil Extract V	/olume:		(uL)		Soil	Aliquot Volu	me:	(uL

## **CONCENTRATION UNITS:**

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	Ü
75-69-4	Trichlorofluoromethane	1	Ü
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	UUJ
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	1	Ü
156-60-5	trans-1,2-Dichloroethene	1	Ü
75-34-3	1,1-Dichloroethane	1	Ū
156-59-2	cis-1,2-Dichloroethene	1	Ü
78-93-3	2-Butanone	5	Ü
74-97-5	Bromochloromethane	1	Ü
67-66-3	Chloroform	7	
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	Ŭ
56-23-5	Carbon Tetrachloride	50 52	-É
71-43-2	Benzene	1	Ū
79-01-6	Trichloroethene	65 <del>65</del>	E-
78-87-5	1,2-Dichloropropane	1	Ū
75-27-4	Bromodichloromethane	1	Ŭ
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-Pentanone	5	Ü
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	Ü
79-00-5	1,1,2-Trichloroethane	1	Ü
127-18-4	Tetrachloroethene	1	U
591-78-6	2-Hexanone	5	Ü
124-48-1	Dibromochloromethane	1	Ü
106-93-4	1,2-Dibromoethane	1	Ü
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	(m+p) Xylene	1	U
1330-20-7	o-Xylene	1	Ü
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
75-25-2	Bromoform	1	U
541-73-1	1,3-Dichlorobenzene	1	U

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MRFA-INFL

Lab Name:	CAS/R	OCH			Contract:	SHAW		_
Lab Code:	10145		Case No.: R09-	833	SAS No	.: S	BDG No.: MRFA	-INF
Matrix: (soil/	water)	WATE	R		Lab	Sample ID:	R0900833-001	1.0
Sample wt/vo	oi:	25.0	(g/ml) <u>ML</u>		Lab	File ID:	W4318.D	
Level: (low/n	ned)	LOW			Dat	e Received:	2/17/09	-
% Moisture: ı	not dec.				Dat	e Analyzed:	2/19/09	-
GC Column:	DB-VF	RX_ID:	0.18 (mm)		Dilu	ıtion Factor:	1.0	-
Soil Extract V	/olume:		(uL)		Soil	Aliquot Volu	ıme:	_ (uL
				CON	CENTRAT	ION LINUTO.		

## **CONCENTRATION UNITS:**

COMPOUND	(ug/L or ug/Kg)	UG/L		Q
				Q
1,4-Dichloroben	zene		1	11
		1	<del>-</del> <del> </del>	
		1	UUJ	
		1	11	
			1	<del>- U</del>
			1	- 11
	1,2-Dichloroben 1,2-Dibromo-3-c 1,2,4-Trichlorob Hexachlorobuta	1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene 1,2,3-Trichlorobenzene	1,2-Dichlorobenzene 1,2-Dibromo-3-chloropropane 1,2,4-Trichlorobenzene Hexachlorobutadiene	1,2-Dichlorobenzene11,2-Dibromo-3-chloropropane11,2,4-Trichlorobenzene1Hexachlorobutadiene1

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAS/Re	OCH	Contract: SHAW	MIKFA-INFL
Lab Code: 10145	Case No.: R09-833	SAS No.: SI	DG No.: MRFA-INF
Matrix: (soil/water)	WATER	Lab Sample ID:	R0900833-001 1.0
Sample wt/vol:	25.0 (g/ml) ML	Lab File ID:	W4318.D
Level: (low/med)	LOW	Date Received:	2/17/09
% Moisture: not dec.		Date Analyzed:	2/19/09
GC Column: DB-VF	RX ID: <u>0.18</u> (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volun	ne: (uL)
	СО	NCENTRATION UNITS:	
Number TICs found:	0 (ug	/L or ug/Kg) UG/L	
CAS NO.	COMPOUND NAME	RT ES	T. CONC. Q

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

DIRFA-DUPE A

Lab Name:	CAS/R	OCH			Contract:	SHAW		
Lab Code:	10145		Case No.:	R09-833	SAS No	.:s	DG No.: MRFA-IN	1F
Matrix: (soil/\	water)	WATER	₹		Lat	Sample ID:	R0900833-002 1.0	)
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lab	File ID:	W4316.D	
Level: (low/r	ned)	LOW			Dat	e Received:	2/17/09	
% Moisture:	not dec.				Dat	e Analyzed:	2/19/09	
GC Column:	DB-VI	RX ID:	<u>0.18</u> (m	nm)	Dilu	ition Factor:	1.0	
Soil Extract \	/olume:		(uL)		Soi	l Aliquot Volu	me:	(uL

## **CONCENTRATION UNITS:**

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	Ü
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	Ū
75-69-4	Trichlorofluorom	nethane	1	Ü
75-35-4	1,1-Dichloroethe		1	Ü
67-64-1	Acetone		5	υu
75-15-0	Carbon Disulfide	3	1	Ü
75-09-2	Methylene Chlor	ride	1	Ü
156-60-5	trans-1,2-Dichlo		1	Ū
75-34-3	1,1-Dichloroetha		1	Ü
156-59-2	cis-1,2-Dichloroe		1	Ü
78-93-3	2-Butanone		5	Ü
74-97-5	Bromochlorome	thane	1	Ü
67-66-3	Chloroform		1	Ü
107-06-2	1,2-Dichloroetha	ine	1	Ŭ
71-55-6	1,1,1-Trichloroet		1	Ŭ
56-23-5	Carbon Tetrachl		0.3	J
71-43-2	Benzene		1	Ŭ
79-01-6	Trichloroethene		0.4	J
78-87-5	1,2-Dichloroprop	ane	1	Ü
75-27-4	Bromodichlorom		1	Ü
10061-01-5	cis-1,3-Dichlorop		1	Ü
108-10-1	4-Methyl-2-Penta		5	Ü
108-88-3	Toluene		1	Ü
10061-02-6	trans-1,3-Dichlor	opropene	1	Ü
79-00-5	1,1,2-Trichloroet		1	Ü
127-18-4	Tetrachloroethen		1	Ü
591-78-6	2-Hexanone	· · · · · · · · · · · · · · · · · · ·	5	Ü
124-48-1	Dibromochloromo	ethane	1	Ü
106-93-4	1,2-Dibromoetha		1	Ü
108-90-7	Chlorobenzene		1	Ü
100-41-4	Ethylbenzene		1	Ü
1330-20-7	(m+p) Xylene		1	U
1330-20-7	o-Xylene		1	U
100-42-5	Styrene		1	Ü
79-34-5	1,1,2,2-Tetrachio	roethane	1	Ü
75-25-2	Bromoform	roca lai le	1	U
541-73 <b>-</b> 1	1,3-Dichlorobenz	000	1	U

**VOLATILE ORGANICS ANALYSIS DATA SHEET** 

EPA SAMPLE NO.

DIRFA-DUPE A

Lab Name:	CAS/R	OCH			Contract:	SHAW	_	· · · · · · · · · · · · · · · · · · ·	
Lab Code:	10145	Ca	se No.:	R09-833	SAS No	.: S	DG No.:	MRFA-I	NF
Matrix: (soil/	water)	WATER			Lab	Sample ID:	R09008	33-002 1	.0
Sample wt/v	ol:	25.0	(g/ml)	ML	Lab	File ID:	W4316.	D	
Level: (low/r	med)	LOW			Dat	e Received:	2/17/09		
% Moisture:	not dec.				Dat	e Analyzed:	2/19/09		
GC Column:	DB-VI	<u>RX</u> ID: <u>0.</u>	18 (m	ım)	Dilu	ition Factor:	1.0		
Soil Extract \	√olume:		(uL)		Soil	Aliquot Volu	me:		(uL)
				COI	NCENTRAT	ION UNITS:			
01011									

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L		Q	
106-46-7	1,4-Dichlorober	nzene		1	U	
95-50-1	1,2-Dichlorober		1	U		
96-12-8	1,2-Dibromo-3-	1,2-Dibromo-3-chloropropane				
120-82-1		1,2,4-Trichlorobenzene				
87-68-3	Hexachlorobuta	diene		1	Ū	
87-61-6	1,2,3-Trichlorob	enzene		1	U	

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RO	OCH			Contract:	SHAV	٧	DIRF	A-DUF	'E A
Lab Code:	10145	Ca	se No.: R	09-833	SAS No	.:	S	DG No.:	MRFA	-INF
Matrix: (soil/v	vater)	WATER			Lat	Samp	ole ID:	R09008	33-002	1.0
Sample wt/vo	ol:	25.0	(g/ml) <u>M</u>	IL	Lat	File II	D:	W4316.	D	
Levei: (low/n	ned)	LOW	_		Dat	e Rec	eived:	2/17/09		_
% Moisture: r	not dec.				Dat	e Anal	yzed:	2/19/09		
GC Column:	DB-VF	<u>RX</u> ID: <u>0.</u>	18 (mm)	)	Dilu	ition F	actor:	1.0		
Soil Extract V	/olume:		_ (uL)		Soi	l Aliquo	ot Volu	me:		_ (uL)
				CON	CONCENTRATION UNITS:					
Number TICs	found:	0		(ug/l	or ug/Kg)	U	G/L			
CAS NO.		COMPOL	IND NAME			RT	ES	T. CONC	).	Q

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MRFA-EFFLUENT

Lab Name:	CAS/RO	DCH	·		Contract:	SHAW		
Lab Code:	10145		Case No.:	R09-833	SAS No	.: 8	SDG No.: MRFA-II	NF
Matrix: (soil/v	vater)	WATER	₹		Lab	Sample ID:	R0900833-003 1.	.0
Sample wt/vo	oi:	25.0	(g/ml)	ML	Lab	File ID:	W4312.D	
Level: (low/n	ned)	LOW			Dat	e Received:	2/17/09	
% Moisture: r	not dec.				Dat	e Analyzed:	2/19/09	
GC Column:	DB-VF	RX ID:	<u>0.18</u> (m	nm)	Dilu	ition Factor:	1.0	
Soil Extract V	olume:	······································	(uL)		Soil	Aliquot Volu	ıme:	(uL

## **CONCENTRATION UNITS:**

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	Ŭ
74-83-9	Bromomethane	1	Ū
75-00-3	Chloroethane	1	Ü
75-69-4	Trichlorofluoromethane	1	Ü
75-35-4	1,1-Dichloroethene	1	Ū
67-64-1	Acetone	5	Ua
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	Ū
156-59-2	cis-1,2-Dichloroethene	1	U
78-93-3	2-Butanone	5	Ü
74-97-5	Bromochloromethane	1	Ū
67-66-3	Chloroform	1	Ü
107-06-2	1,2-Dichloroethane	1	Ū
71-55-6	1,1,1-Trichloroethane	1	Ü
56-23-5	Carbon Tetrachloride	0.4	J
71-43-2	Benzene	1	Ū
79-01-6	Trichloroethene	0.5	J
78-87-5	1,2-Dichloropropane	1	Ü
75-27-4	Bromodichloromethane	1	Ū
10061-01-5	cis-1,3-Dichloropropene	1	Ū
108-10-1	4-Methyl-2-Pentanone	5	Ū
108-88-3	Toluene	1	Ü
10061-02-6	trans-1,3-Dichloropropene	1	Ü
79-00-5	1,1,2-Trichloroethane	1	Ū
127-18-4	Tetrachloroethene	1	Ū
591-78-6	2-Hexanone	5	Ü
124-48-1	Dibromochloromethane	1	Ū
106-93-4	1,2-Dibromoethane	1	Ŭ
108-90-7	Chlorobenzene	1	Ü
100-41-4	Ethylbenzene	1	Ü
1330-20-7	(m+p) Xylene	1	Ü
1330-20-7	o-Xylene	1	U
100-42-5	Styrene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
75-25-2	Bromoform	1	U
541-73-1	1,3-Dichlorobenzene	1	U

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

MRFA-EFFLUENT

Lab Name:	CAS/RC	OCH			Contract:	SHAW	[			
Lab Code:	10145	Cas	se No.:	R09-833	SAS No	o. <b>:</b>	SDG	No.:	MRFA-	INF
Matrix: (soil/\	water)	WATER	_		Lal	o Sample II	): <u>R</u>	09008	33-003 1	.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lal	File ID:	W	/4312.[	<b>)</b>	
Level: (low/r	ned)	LOW	_		Da	te Receive	d: <u>2/</u>	17/09		
% Moisture:	not dec.				Da	te Analyze	d: <u>2</u> /	19/09		
GC Column:	DB-VF	RX ID: <u>0.1</u>	<u>8</u> (m	m)	Dile	ution Facto	r: <u>1.</u>	0		
Soil Extract \	/olume:		_ (uL)		Soi	I Aliquot Vo	olume	e:		(uL)
				COI	NCENTRAT	ION UNITS	<b>S</b> :			
CAS NO	<b>)</b> .	COMPO	DUND	(ug/	L or ug/Kg)	UG/L		_	Q	

OAO NO.	OCIVIF OCIAD	(ug/L or ug/Ng)	UG/L		Q
106-46-7	1,4-Dichlorober	zene		1	U
95-50-1	1,2-Dichlorober	zene		1	U
96-12-8	1,2-Dibromo-3-	chloropropane		1	UKT
120-82-1	1,2,4-Trichlorob	enzene		1	U
87-68-3	Hexachlorobuta	diene		1	U
87-61-6	1,2,3-Trichlorob	enzene		1	U

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	СН			Contract:	SHA	W	MRFA	-EFFLL	JENT
Lab Code:	10145		Case No.:	R09-833	_ SAS No	.:	SI	DG No.:	MRFA	-INF
Matrix: (soil/	water)	WATER	<u> </u>		Lat	Sam	ple ID:	R09008	33-003	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lat	File I	D:	W4312.	D	
Level: (low/r	ned)	LOW			Da	te Rec	eived:	2/17/09		
% Moisture:	not dec.				Dat	te Ana	lyzed:	2/19/09		-
GC Column:	DB-VF	X ID:	0.18 (m	ım)	Dilt	ution F	actor:	1.0		-
Soil Extract \	/olume:		(uL)		Soi	l Aliqu	ot Volur	me:		_ (uL)
				COI	NCENTRAT	ION U	NITS:			
Number TICs	s found:	0		(ug/	L or ug/Kg)	<u>u</u>	IG/L			
CAS NO.		COMPO	NAM DNUC	ИE		RT	ES	T. CONC	<b>)</b> .	Q

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

TRIP BLANK

Lab Name:	CAS/RC	CH			Contract:	SHAW	IRIP BLANK	
Lab Code:	10145		Case No.:	R09-833	SAS No	.: S	DG No.: MRFA-INF	:
Matrix: (soil/w	vater)	WATER	?		Lab	Sample ID:	R0900833-004 1.0	-
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lab	File ID:	W4314.D	-
Level: (low/m	ned)	LOW	•		Dat	e Received:	2/17/09	
% Moisture: n	not dec.				Dat	e Analyzed:	2/19/09	
GC Column:	DB-VR	X ID:	<u>0.18</u> (m	ım)	Dilu	tion Factor:	1.0	
Soil Extract V	olume: _		(uL)		Soil	Aliquot Volu	me: (u	L

## **CONCENTRATION UNITS:**

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L		Q
74-87-3	Chloromethane			1	U
75-01-4	Vinyl Chloride			<u>'</u>	Ü
74-83-9	Bromomethane			1	U
75-00-3	Chloroethane			1	Ü
75-69-4	Trichlorofluorome	thane		1	Ü
75-35-4	1,1-Dichloroether			1	Ü
67-64-1	Acetone			2	J
75-15-0	Carbon Disulfide			1	U
75-09-2	Methylene Chloric	de		1	Ü
156-60-5	trans-1,2-Dichloro			1	U
75-34-3	1,1-Dichloroethan			1	Ü
156-59-2	cis-1,2-Dichloroet			1	U
78-93-3	2-Butanone			5	U
74-97-5	Bromochlorometh	ane		1	Ü
67-66-3	Chloroform			1	U
107-06-2	1,2-Dichloroethan	е		1	U
71-55-6	1,1,1-Trichloroeth			1	U
56-23-5	Carbon Tetrachlor	ide		1	U
71-43-2	Benzene			1	U
79-01-6	Trichloroethene			1	Ü
78-87-5	1,2-Dichloropropa	ne		1	U
75-27-4	Bromodichloromet			1	Ü
10061-01-5	cis-1,3-Dichloropro	opene		1	<del>U</del>
108-10-1	4-Methyl-2-Pentan	ione		5	Ü
108-88-3	Toluene			1	Ü
10061-02-6	trans-1,3-Dichloro	propene		1	Ü
79-00-5	1,1,2-Trichloroetha			1	U
127-18-4	Tetrachloroethene			1	Ü
591-78-6	2-Hexanone			5	U
124-48-1	Dibromochloromet	hane		1	U
106-93-4	1,2-Dibromoethane			1	Ü
108-90-7	Chlorobenzene			1	U
100-41-4	Ethylbenzene			1	Ü
1330-20-7	(m+p) Xylene			1	Ü
1330-20-7	o-Xylene			1	U
100-42-5	Styrene			1	U
79-34-5	1,1,2,2-Tetrachloro	ethane		1	U
75-25-2	Bromoform			1	U
541-73-1	1,3-Dichlorobenzer	i		1	U

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

TRIP BLANK

Lab Name:	CAS/RC	OCH			Contract:	SHAW	_		
Lab Code:	10145	<del></del>	Case No.:	R09-833	SAS No	.: S	DG No.:	MRFA-	INF
Matrix: (soil/v	vater)	WATER	₹		Lat	Sample ID:	R09008	33-004	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lat	File ID:	W4314.	D	
Level: (low/n	ned)	LOW			Dat	e Received:	2/17/09		
% Moisture: r	not dec.				Dat	e Analyzed:	2/19/09		
GC Column:	DB-VR	X ID:	<u>0.18</u> (m	nm)	Dilu	ition Factor:	1.0		
Soil Extract V	olume:		(uL)		Soi	Aliquot Volu	ıme:		(uL)
CAS NO		CON	/POUND		NCENTRAT	ION UNITS:		•	
	<b>'.</b>	CON	バーしいいし	LUOVI	OF HO/KO)	UG/I		<u> </u>	

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
106-46-7	1,4-Dichlorober	zene	1	U
95-50-1	1,2-Dichlorober	zene	1	Ū
96-12-8	1,2-Dibromo-3-	chloropropane	1	UUS
120-82-1	1,2,4-Trichlorob		1	U
87-68-3	Hexachlorobuta	diene	1	Ü
87-61-6	1,2,3-Trichlorob	enzene	1	Ŭ

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	CH			Contract:	SHA	N	TRI	P BLAN	1K
Lab Code:	10145	Ca	se No.: R0	9-833	SAS No	D.:	SD	G No.:	MRFA	-INF
Matrix: (soil/v	water)	WATER	_		La	b Sam	ole ID: F	R09008	33-004	1.0
Sample wt/vo	ol:	25.0	(g/ml) MI	-	La	b File I	D: V	V4314.I	 )	
Level: (low/n	ned)	LOW	<del></del>		Da	te Rec	eived: 2	2/17/09		•
% Moisture: r	not dec.				Da	te Ana	yzed: 2	/19/09		•
GC Column:	DB-VR	X ID: 0.	18_ (mm)		Dil	ution F	actor: 1	.0		
Soil Extract V	olume:		_ (uL)		So	il Alique	ot Volum	e:		(uL)
				CON	CENTRAT	ION U	NITS:			
Number TICs	found:	0	_	(ug/L	. or ug/Kg)	<u>U</u>	G/L			
CAS NO.		COMPOU	ND NAME			RT	EST.	CONC	•	Q.

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

COOLER BLK

Lab Name:	CAS/RO	CH			Contract:	SHAW	L			
Lab Code:	10145		Case No.:	R09-833	SAS No	.:	SDG	No.:	MRFA-	INF
Matrix: (soil/v	vater)	WATER	₹		Lat	Sample ID	): <u>R</u> (	9008	33-005 1	.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lat	File ID:	W	4336.[	<u> </u>	
Level: (low/n	ned)	LOW			Dat	te Received	l: <u>2/</u>	17/09		
% Moisture: r	not dec.				Dat	te Analyzed	: 2/2	23/09		
GC Column:	DB-VF	RX ID:	<u>0.18</u> (m	nm)	Dilu	ution Factor	: <u>1.0</u>	0		
Soil Extract V	/olume:		(uL)		Soi	l Aliquot Vo	lume	:		(uL

## **CONCENTRATION UNITS:**

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	<del></del>	Q
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		1	U
75-35-4	1,1-Dichloroethene		1	U
67-64-1	Acetone		5	UUJ
75-15-0	Carbon Disulfide		1	U
75-09-2	Methylene Chloride		1	U
156-60-5	trans-1,2-Dichloroethene		1	U
75-34-3	1,1-Dichloroethane		1	U
156-59-2	cis-1,2-Dichloroethene		1	U
78-93-3	2-Butanone	ś	5	U
74-97-5	Bromochloromethane		1	U
67-66-3	Chloroform		1	U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon Tetrachloride		1	U
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		1	U
78-87-5	1,2-Dichloropropane		1	U
75-27-4	Bromodichloromethane		1	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-10-1	4-Methyl-2-Pentanone		5	U
108-88-3	Toluene		1	U
10061-02-6	trans-1,3-Dichloropropene		1	U
79-00-5	1,1,2-Trichloroethane		1	U
127-18-4	Tetrachloroethene		1	U
591-78-6	2-Hexanone		5	U
124-48-1	Dibromochloromethane		1	U
106-93-4	1,2-Dibromoethane		1	U
108-90-7	Chlorobenzene		1	U
100-41-4	Ethylbenzene		1	U
1330-20-7	(m+p) Xylene		1	U
1330-20-7	o-Xylene		1	U
100-42-5	Styrene		1	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
75-25-2	Bromoform		1	U
541-73-1	1,3-Dichlorobenzene		1	U

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

EPA SAMPLE NO.

COOLER BLK

Lab Name:	CAS/RO	OCH			Contract:	SHAW	L			
Lab Code:	10145	Cas	se No.: R	09-833	SAS No	.:	SDG	No.:	MRFA-	INF
Matrix: (soil/v	water)	WATER	-		Lat	Sample II	D: <u>R0</u>	9008	33-005 1	.0
Sample wt/vo	oi:	25.0	(g/ml) <u>N</u>	/L	Lat	File ID:	W	4336.[	D	
Level: (low/n	ned)	LOW	_		Dat	e Receive	d: <u>2/1</u>	7/09		
% Moisture: ı	not dec.		·		Dat	e Analyze	d: <u>2/2</u>	23/09		
GC Column:	DB-VF	RX ID: 0.1	8 (mm	)	Dilu	ıtion Facto	r: <u>1.0</u>	)		
Soil Extract V	/olume:		_ (uL)		Soi	l Aliquot Vo	olume:			(uL)
				CON	CENTRAT	ION UNITS	S:			
CAS NO	).	COMPO	DUND	(ug/l	or ug/Kg)	UG/L		_	Q	
										<del></del>

106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U 143
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

		ILIVIA	HAFFI IDCIALIE	LD COMPO	COMP CONDS				
Lab Name:	CAS/RO	ОСН		Contract:	SHAW		600	LER B	3LK
Lab Code:	10145	Ca	ase No.: R09-83	3 SAS No	).:	_ SD	G No.:	MRFA	-INF
Matrix: (soil/v	vater)	WATER	<del></del>	Lal	b Sample	D: I	R090083	33-005	1.0
Sample wt/vo	ol:	25.0	(g/ml) ML	Lal	b File ID:	· <u>\</u>	W4336.E	)	
Level: (low/n	ned)	LOW		Da	te Receiv	/ed: 2	2/17/09		_
% Moisture: ı	not dec.			Da	te Analyz	ed: 2	2/23/09		
GC Column:	DB-VF	<u> </u>	.18 (mm)	Dile	ution Fac	tor:	1.0		_
Soil Extract V	/olume:		(uL)	Soi	il Aliquot	Volum	ne:		(uL)
Number TICs	s found:	0		ONCENTRAT g/L or ug/Kg)					
CAS NO.			UND NAME		RT	EST	CONC		Q

## APPENDIX B

LABORATORY DATA, GROUNDWATER SAMPLES
(MAY 12 AND 13, 2009)
AND
LABORATORY DATA, INFLUENT/EFFLUENT WATER
SAMPLES (MAY 13, 2009)

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name: Water

Lab Code:

DUPE A R0902679-001 Service Request: R0902679

Date Collected: 5/12/09

Date Received: 5/13/09

Units: ug/L

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 Analysis</b>	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot Lot 1	Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.081	1	NA	5/14/09 13:39		
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	1	NA	5/14/09 13:39		
1,1,2-Trichloroethane	1.0 U	1.0	0.12	1	NA	5/14/09 13:39	153654	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.12	1	NA	5/14/09 13:39		
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.11	1	NA	5/14/09 13:39		
1,2,3-Trichlorobenzene	1.0 U	1.0	0.060	1	NA	5/14/09 13:39	153654	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.048	1	NA	5/14/09 13:39		
1,2-Dibromo-3-chloropropane	1.0 ひひて	1.0	0.25	1	NA	5/14/09 13:39	153654	
(DBCP) 1,2-Dibromoethane	1.0 U	1.0	0.13	1	NA	5/14/09 13:39	153654	
1,2-Dichloroethane	1.0 U	1.0	0.17	1	NA	5/14/09 13:39	153654	
1,2-Dichlorobenzene	1.0 U	1.0	0.079	1	NA	5/14/09 13:39	153654	
1,2-Dichloropropane	1.0 U	1.0	0.10	1	NA	5/14/09 13:39	153654	
1,3-Dichlorobenzene	1.0 U	1.0	0.062	1	NA	5/14/09 13:39	153654	
1,4-Dichlorobenzene	1.0 U	1.0	0.075	1	NA	5/14/09 13:39		
2-Butanone (MEK)	5.0 UUJ	5.0	1.5	1	NA	5/14/09 13:39	153654	
2-Hexanone	5.0 U	5.0	1.1	1	NA	5/14/09 13:39		
4-Methyl-2-pentanone	5.0 U	5.0	0.53	1	NA	5/14/09 13:39		
Acetone	5,012-J-UJ	5.0	0.97	1	NA	5/14/09 13:39	153654	
Benzene	1.0 U	1.0	0.057	1	NA	5/14/09 13:39		
Bromochloromethane	1.0 U	1.0	0.10	1	NA	5/14/09 13:39		
Bromodichloromethane	1.0 U	1.0	0.050	1	NA	5/14/09 13:39	153654	
Bromoform	1.0 U	1.0	0.083	1	NA	5/14/09 13:39		
Bromomethane	1.0 U	1.0	0.42	1	NA	5/14/09 13:39		
Carbon Disulfide	1.0 U	1.0	0.20	1	NA	5/14/09 13:39	153654	
Carbon Tetrachloride	1.3	1.0	0.073	1	NA	5/14/09 13:39	•	
Chlorobenzene	1.0 U	1.0	0.087	1	NA	5/14/09 13:39		
Chloroethane	1.0 U	1.0	0.093	1	NA	5/14/09 13:39	153654	
Chloroform	0.19 J	1.0	0.12	1	NA	5/14/09 13:39		
Chloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 13:39		
cis-1,2-Dichloroethene	1.0 U	1.0	0.10	1	NA	5/14/09 13:39		
cis-1,3-Dichloropropene	1.0 U	1.0	0.069	1	NA	5/14/09 13:39		
Dibromochloromethane	1.0 U	1.0	0.13	1		5/14/09 13:39		
Ethylbenzene	1.0 U	1.0	0.057	1	NA	5/14/09 13:39	153654	

Comments:

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Water

Lab Code:

DUPE A

R0902679-001

Service Request: R0902679

Date Collected: 5/12/09
Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction A Lot	•	s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/14/09 13:39	)	153654	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/14/09 13:39	)	153654	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/14/09 13:39	)	153654	·
o-Xylene	1.0 U	1.0	0.075	1	NA	5/14/09 13:39	)	153654	
Styrene	1.0 U	1.0	0.054	1	NA	5/14/09 13:39	)	153654	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	. 1	NA	5/14/09 13:39	)	153654	
Toluene	1.0 U	1.0	0.049	1	NA	5/14/09 13:39	)	153654	,
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/14/09 13:39	)	153654	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	. 1	NA	5/14/09 13:39	)	153654	
Trichloroethene (TCE)	1.0 U	1.0	0.077	1	NA	5/14/09 13:39	)	153654	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/14/09 13:39	)	153654	
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/14/09 13:39	)	153654	

Surrogate Name	%F	Control Rec Limits	Date Analyzed	Q	Note	
4-Bromofluorobenzene	100	80-120	5/14/09 13:39			

Comments:	

00011

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	CH			Contract:	SHAW	1		UPE A	<b>,</b>
Lab Code:	10145		Case No.:	R09-2679	SAS No	.:	s	DG No.:	DUPE	-A
Matrix: (soil/w	ater)	WATE	₹		Lat	Sampl	e ID:	R090267	79-001	1.0
Sample wt/vol	<b>:</b>	25.0	(g/ml)	ML	Lab	File ID	:	W5582.E	)	
Level: (low/m	ed)	LOW			Dat	e Rece	ived:	5/13/09		_
% Moisture: n	ot dec.		***		Dat	e Analy	zed:	5/14/09		_
GC Column:	DB-VR	X ID:	<u>0.18</u> (m	ım)	Dilu	tion Fa	ctor:	1.0		-
Soil Extract Vo	olume:		(uL)		Soil	Aliquot	Volur	ne:		_ (uL)
				CON	CENTRATI	ON UN	ITS:			
Number TICs	found:	0		(ug/L	or ug/Kg)	UG	/L	<del></del>		
CAS NO.		COMP	OUND NAM	1E		RT	EST	T. CONC.		Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code: 13D R0902679-002 Service Request: R0902679

Date Collected: 5/12/09 1345

Date Received: 5/13/09

Units: μg/L Basis: NA

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

Analytical Method: CLP-VOA OLC02.1

Analytical Method: CLF-VOA	JLC02.1				75.17 d.	D-4-	Doto	Extraction Analysi	:.
Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	_	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.081	1	NA	5/14/09 14:22		
1,1,2,2-Tetrachloroethane	1.0		1.0	0.15	1	NA	5/14/09 14:22		
1,1,2-Trichloroethane	1.0		1.0	0.12	1	NA	5/14/09 14:22	153654	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.12	1	NA	5/14/09 14:22		
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.11	1	NA	5/14/09 14:22		
1,2,3-Trichlorobenzene	1.0		1.0	0.060	1	NA	5/14/09 14:22	153654	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.048	1	NA	5/14/09 14:22		
1,2-Dibromo-3-chloropropane	1.0	UUT	1.0	0.25	1	NA	5/14/09 14:22	153654	
(DBCP) 1,2-Dibromoethane	1.0	υ	1.0	0.13	11	NA	5/14/09 14:22		
1,2-Dichloroethane	1.0	U	1.0	0.17	1	NA	5/14/09 14:22		
1,2-Dichlorobenzene	1.0	U	1.0	0.079	1	NA	5/14/09 14:22		
1,2-Dichloropropane	1.0	U	1.0	0.10	1	NA	5/14/09 14:22	153654	
1,3-Dichlorobenzene	1.0	U	1.0	0.062	1	NA	5/14/09 14:22		
1.4-Dichlorobenzene	1.0		1.0	0.075	1	NA	5/14/09 14:22		
2-Butanone (MEK)	5.0	UUJ	5.0	1.5	1	NA	5/14/09 14:22	153654	
2-Hexanone	5.0	U	5.0	1.1	1	NA	5/14/09 14:22		
4-Methyl-2-pentanone	5.0	U	5.0	0.53	1	NA	5/14/09 14:22		
Acetone	5.0	บนป	5.0	0.97	1	NA	5/14/09 14:22		
Benzene	1.0	U ·	1.0	0.057	1	NA	5/14/09 14:22		
Bromochloromethane	1.0	U	1.0	0.10	1	NA	5/14/09 14:22		
Bromodichloromethane	1.0	U	1.0	0.050	1	NA	5/14/09 14:22	***************************************	
Bromoform	1.0	U	1.0	0.083	1	NA	5/14/09 14:22		
Bromomethane	1.0	U	1.0	0.42	1	NA	5/14/09 14:22		
Carbon Disulfide	1.0		1.0	0.20	1	NA	5/14/09 14:22	153654	
Carbon Tetrachloride	1.1		1.0	0.073	1	NA	5/14/09 14:22		
Chlorobenzene	1.0	U	1.0	0.087	1	NA	5/14/09 14:22		
Chloroethane	1.0	U	1.0	0.093	1	NA	5/14/09 14:22	153654	
Chloroform	0.15	J	1.0	0.12	1	NA	5/14/09 14:22	153654	
Chloromethane	1.0		1.0	0.13	1		5/14/09 14:22	153654	
cis-1,2-Dichloroethene	1.0	U	1.0	0.10	1	NA	5/14/09 14:22	153654	
cis-1,3-Dichloropropene	1.0	U	1.0	0.069	I		5/14/09 14:22	153654	
Dibromochloromethane	1.0		1.0	0.13	1		5/14/09 14:22	153654	
Ethylbenzene	1.0		1.0	0.057	1	NA	5/14/09 14:22	153654	

Comments:

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code:

13D

R0902679-002

Service Request: R0902679

Date Collected: 5/12/09 1345

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysi Lot	s Note
Hexachlorobutadiene	1.0	U	1.0	0.12	1	NA	5/14/09 14:22	)	153654	
m,p-Xylenes	1.0	U	1.0	0.13	1	NA	5/14/09 14:22	2	153654	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.11	. 1	NA	5/14/09 14:22	2	153654	• •.
o-Xylene	1.0	Ŭ	1.0	0.075	1	NA	5/14/09 14:22	<u> </u>	153654	
Styrene	1.0	U	1.0	0.054	1	NA	5/14/09 14:22	2	153654	
Tetrachloroethene (PCE)	1.0	U	1.0	0.083	1	NA	5/14/09 14:22	2	153654	
Toluene	1.0	U	1.0	0.049	1	NA	5/14/09 14:22		153654	
trans-1,2-Dichloroethene	1.0	U	1.0	0.092	1	NA	5/14/09 14:22	2	153654	
trans-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/14/09 14:22	!	153654	
Trichloroethene (TCE)	1.0	U	1.0	0.077	1	NA	5/14/09 14:22		153654	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	1	NA	5/14/09 14:22	2	153654	
Vinyl Chloride	1.0	U	1.0	0.13	1	NA	5/14/09 14:22		153654	

Surrogate Name		%Rec	Control Limits	Date Analyzed	0	Note
4-Bromofluorobenzene		98	80-120	5/14/09 14:22	<u> </u>	Note

Commicues.	

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

<b>EPA</b>	SAMF	LE	NO
------------	------	----	----

Lab Name:	CAS/RO	OCH			Contract:	s	HAW		13D	
Lab Code:	10145	Ca	ase No.:	R09-2679	SAS N	o.:	s	DG No.:	DUPE	E-A
Matrix: (soil/v	vater)	WATER			La	b S	ample ID:	R09026	79-002	2 1.0
Sample wt/vo	ol:	25.0	_ (g/ml)	ML	_ La	b F	ile ID:	W5583.	D	
Level: (low/m	ned)	LOW	_		Da	ate F	Received:	5/13/09		
% Moisture: r	not dec.				Da	ate A	Analyzed:	5/14/09		
GC Column:	DB-VF	<u> </u>	.18_ (m	ım)	Dil	utio	n Factor:	1.0		
Soil Extract V	olume:		(uL)		So	il Al	iquot Volu	me:		_ (uL)
				CON	CENTRA	[OI	N UNITS:			
Number TICs	found:	0	·	(ug/l	_ or ug/Kg)		UG/L			
CAS NO.		COMPOL	JND NAN	1E		R	T ES	T. CONC		Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code:

M-27D

R0902679-004

Service Request: R0902679

Date Collected: 5/12/09 1307

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.081	1	NA	5/14/09 14:58	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	1	NA	5/14/09 14:58	
1,1,2-Trichloroethane	1.0	U	1.0	0.12	1	NA	5/14/09 14:58	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.12	1	NA	5/14/09 14:58	
1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.11	1	NA	5/14/09 14:58	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.060	1 .	NA	5/14/09 14:58	
1,2,4-Trichlorobenzene	1.0		1.0	0.048	1	NA	5/14/09 14:58	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	לאט	1.0	0.25	1	NA	5/14/09 14:58	
1,2-Dibromoethane	1.0	U	1.0	0.13	1	NA	5/14/09 14:58	153654
1,2-Dichloroethane	1.0	U	1.0	0.17	1	NA	5/14/09 14:58	
1,2-Dichlorobenzene	1.0	U	1.0	0.079	1	NA	5/14/09 14:58	
1,2-Dichloropropane	1.0		1.0	0.10	1	NA	5/14/09 14:58	153654
1,3-Dichlorobenzene	1.0	U	1.0	0.062	1	NA	5/14/09 14:58	
1,4-Dichlorobenzene	1.0	U	1.0	0.075	1	NA	5/14/09 14:58	
2-Butanone (MEK)	5.0	UUJ	5.0	1.5	1	NA	5/14/09 14:58	153654
2-Hexanone	5.0	U	5.0	1.1	1	NA	5/14/09 14:58	
4-Methyl-2-pentanone	5.0	U,	5.0	0.53	1	NA	5/14/09 14:58	
Acetone	5.0	UUS	5.0	0.97	1	NA	5/14/09 14:58	153654
Benzene	1.0	U	1.0	0.057	1	NA	5/14/09 14:58	
Bromochloromethane	1.0	U	1.0	0.10	1	NA	5/14/09 14:58	
Bromodichloromethane	1.0	U	1.0	0.050	1	NA	5/14/09 14:58	3 153654
Bromoform	1.0	U	1.0	0.083	1	NA	5/14/09 14:58	
Bromomethane	1.0	U	1.0	0.42	1	NA	5/14/09 14:58	
Carbon Disulfide	1.0	U	1.0	0.20	1	NA	5/14/09 14:58	3 153654
Carbon Tetrachloride	7.6		1.0	0.073	1	NA	5/14/09 14:58	
Chlorobenzene	1.0	U	1.0	0.087	1	NA	5/14/09 14:58	
Chloroethane	1.0	U	1.0	0.093	1	NA	5/14/09 14:58	3 153654
Chloroform	0.30	J	1.0	0.12	1	NA	5/14/09 14:58	
Chloromethane	1.0	U	1.0	0.13	1	NA	5/14/09 14:58	
cis-1,2-Dichloroethene		U	1.0	0.10	1	NA	5/14/09 14:58	3 153654
cis-1,3-Dichloropropene	1.0	U	1.0	0.069	1	NA	5/14/09 14:58	
Dibromochloromethane		U	1.0	0.13	1	NA	5/14/09 14:58	
Ethylbenzene		Ū	1.0	0.057	1	NA	5/14/09 14:58	3 153654

Comments:

Printed 6/4/09 9:11

\\inflow2\starlims\LimsReps\AnalyticalReport.rpt

Form 1A

SuperSet Reference:

09-0000103423 rev 00

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Water

M-27D

Lab Code:

R0902679-004

Service Request: R0902679

**Date Collected:** 5/12/09 1307

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	is Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/14/09 14:58	3	153654	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/14/09 14:58	3	153654	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/14/09 14:58	3	153654	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/14/09 14:58	}	153654	
Styrene	1.0 U	1.0	0.054	1	NA	5/14/09 14:58	}	153654	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/14/09 14:58	3	153654	
Toluene	1.0 U	1.0	0.049	1	NA	5/14/09 14:58		153654	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/14/09 14:58	3	153654	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/14/09 14:58	3	153654	
Trichloroethene (TCE)	11	1.0	0.077	1	NA	5/14/09 14:58	3	153654	•
Trichlorofluoromethane (CFC 11)	0.15 J	1.0	0.12	I	NA	5/14/09 14:58	3	153654	•
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/14/09 14:58	3	153654	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note	
4-Bromofluorobenzene	102	80-120	5/14/09 14:58		`	•

Comments:
-----------

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

<b>EPA</b>	SAMF	PLE	NO
------------	------	-----	----

Lab Name:	CAS/RO	CH			Contract:	SHAV	/		M-2/D	
Lab Code:	10145		Case No.:	R09-2679	SAS No	.:	SD	G No.:	DUPE	-A
Matrix: (soil/v	vater)	WATER	₹		Lat	Samp	le ID: I	R09026	79-004	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lab	File ID	): <u>\</u>	N5584.I	כ	
Level: (low/n	ned)	LOW			Dat	e Rece	ived: 5	5/13/09		_
% Moisture: r	not dec.	<del></del>			Dat	e Analy	zed: 5	5/14/09		_
GC Column:	DB-VF	RX ID:	0.18 (m	nm)	Dilu	ition Fa	ctor: 1	.0		_
Soil Extract V	olume:		(uL)		Soil	Aliquo	t Volum	e:		(uL)
				CON	ICENTRAT	ON UN	IITS:			
Number TICs	found:	0		(ug/l	or ug/Kg)	UG	6/L	<del></del>		
CAS NO.		COMP	NAN DNUC	ИE		ŔŦ	EST.	CONC		Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code:

DGC-3S

R0902679-005

Service Request: R0902679

**Date Collected:** 5/12/09 1225

Date Received: 5/13/09

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	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.081	1	NA	5/14/09 15:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	1	NA	5/14/09 15:34	
1,1,2-Trichloroethane	1.0 U	1.0	0.12	1	NA	5/14/09 15:34	153654
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.12	1	NA	5/14/09 15:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.11	1	NA	5/14/09 15:34	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.060	1	NA	5/14/09 15:34	153654
1,2,4-Trichlorobenzene	1.0 U	1.0	0.048	1	NA	5/14/09 15:34	153654
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	UJ 1.0	0.25	1	NA	5/14/09 15:34	153654
1,2-Dibromoethane	1.0 U	1.0	0.13	1	NA	5/14/09 15:34	153654
1,2-Dichloroethane	1.0 U	1.0	0.17	1	NA	5/14/09 15:34	153654
1,2-Dichlorobenzene	1.0 U	1.0	0.079	1	NA	5/14/09 15:34	153654
1,2-Dichloropropane	1.0 U	1.0	0.10	1	NA	5/14/09 15:34	153654
1,3-Dichlorobenzene	1.0 U	1.0	0.062	1	NA	5/14/09 15:34	153654
1,4-Dichlorobenzene	1.0 U	_ 1.0	0.075	1	NA	5/14/09 15:34	153654
2-Butanone (MEK)	5.0 UV	LJ 5.0	1.5	1	NA	5/14/09 15:34	153654
2-Hexanone	5.0 U	5.0	1.1	1	NA	5/14/09 15:34	153654
4-Methyl-2-pentanone	5.0 U	5.0	0.53	1	NA	5/14/09 15:34	153654
Acetone	5.0 U\	15 5.0	0.97	1	NA	5/14/09 15:34	153654
Benzene	1.0 U	1.0	0.057	1	NA	5/14/09 15:34	153654
Bromochloromethane	1.0 U	1.0	0.10	1	NA	5/14/09 15:34	153654
Bromodichloromethane	1.0 U	1.0	0.050	1	NA	5/14/09 15:34	153654
Bromoform	1.0 U	1.0	0.083	1	NA	5/14/09 15:34	153654
Bromomethane	1.0 U	1.0	0.42	1	NA	5/14/09 15:34	153654
Carbon Disulfide	1.0 U	1.0	0.20	1	NA	5/14/09 15:34	153654
Carbon Tetrachloride	1.0 U	1.0	0.073	1	NA	5/14/09 15:34	153654
Chlorobenzene	1.0 U	1.0	0.087	1	NA	5/14/09 15:34	153654
Chloroethane	1.0 U	1.0	0.093	1	NA	5/14/09 15:34	153654
Chloroform	1.0 U	1.0	0.12	1	NA	5/14/09 15:34	153654
Chloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 15:34	153654
cis-1,2-Dichloroethene	1.0 U	1.0	0.10	1	NA	5/14/09 15:34	153654
cis-1,3-Dichloropropene	1.0 U	1.0	0.069	1	NA	5/14/09 15:34	153654
Dibromochloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 15:34	153654
Ethylbenzene	1.0 U	1.0	0.057	1	NA	5/14/09 15:34	153654

Comments:

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Sample Name:

Water

Lab Code:

R0902679-005

DGC-3S

Service Request: R0902679

**Date Collected:** 5/12/09 1225

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction . Lot	•	s Note
Hexachlorobutadiene	1.0	U	1.0	0.12	1	NA	5/14/09 15:34	ļ	153654	
m,p-Xylenes	1.0	U	1.0	0.13	1	NA	5/14/09 15:34	ļ	153654	
Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.11	1	NA	5/14/09 15:34		153654	
o-Xylene	1.0	U	1.0	0.075	1	NA NA	5/14/09 15:34		153654	
Styrene	1.0	U	1.0	0.054	1	NA	5/14/09 15:34		153654	
Tetrachloroethene (PCE)	1.0	U	1.0	0.083	1	NA	5/14/09 15:34		153654	-
Toluene	1.0	U	1.0	0.049	1	NA	5/14/09 15:34		153654	• .
trans-1,2-Dichloroethene	1.0	U	1.0	0.092	1	NA	5/14/09 15:34	•	153654	
trans-1,3-Dichloropropene	1.0	U	1.0	0.079	1	NA	5/14/09 15:34	•	153654	
Trichloroethene (TCE)	1.0	U	1.0	0.077	1	NA	5/14/09 15:34		153654	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	1	NA	5/14/09 15:34		153654	
Vinyl Chloride	1.0	U	1.0	0.13	1.	NA	5/14/09 15:34	,	153654	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note	·
4-Bromofluorobenzene	103	80-120	5/14/09 15:34			•

Comments:	

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAS/ROCH		Contract: S	SHAW	DGC-3	S
Lab Code: <u>10145</u>	Case No.: R09-2679	SAS No.:	S	DG No.: DUP	E-A
Matrix: (soil/water) WATE	<u>R</u>	Lab S	Sample ID:	R0902679-005	5 1.0
Sample wt/vol: 25.0	(g/ml) ML	Lab F	ile ID:	W5585.D	
Level: (low/med) LOW	*****	Date I	Received:	5/13/09	
% Moisture: not dec.		Date /	Analyzed:	5/14/09	
GC Column: DB-VRX ID:	<u>0.18</u> (mm)	Dilutio	n Factor:	1.0	7
Soil Extract Volume:	(uL)	Soil Al	liquot Volur	ne:	_ (uL)
	CON	CENTRATIO	N UNITS:		
Number TICs found: 0	(ug/L	or ug/Kg)	UG/L		
CAS NO. COMP	POUND NAME	R	T EST	r. conc.	Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name: Water

Lab Code:

DGC-4S R0902679-006 Service Request: R0902679

**Date Collected:** 5/12/09 1150

Date Received: 5/13/09

Units: μg/L Basis: NA

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

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result		MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0		1.0	0.081	l	NA	5/14/09 16:10	
1,1,2,2-Tetrachloroethane	1.0		1.0	0.15	1	NA	5/14/09 16:10	
1,1,2-Trichloroethane	1.0	U	1.0	0.12	1	NA	5/14/09 16:10	153654
1,1-Dichloroethane (1,1-DCA)	1.0		1.0	0.12	1	NA	5/14/09 16:10	153654
1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.11	1	NA	5/14/09 16:10	153654
1,2,3-Trichlorobenzene	1.0	U	1.0	0.060	1	NA	5/14/09 16:10	153654
1,2,4-Trichlorobenzene	1.0	U	1.0	0.048	1	NA	5/14/09 16:10	153654
1,2-Dibromo-3-chloropropane (DBCP)	1.0	UW	1.0	0.25	1	NA	5/14/09 16:10	153654
1,2-Dibromoethane	1.0	U	1.0	0.13	1	NA	5/14/09 16:10	153654
1,2-Dichloroethane	1.0	U	1.0	0.17	1	NA	5/14/09 16:10	153654
1,2-Dichlorobenzene	1.0	U	1.0	0.079	1	NA	5/14/09 16:10	153654
1,2-Dichloropropane	1.0	U	1.0	0.10	1	NA	5/14/09 16:10	153654
1,3-Dichlorobenzene	1.0	U	1.0	0.062	1	NA	5/14/09 16:10	153654
1,4-Dichlorobenzene	1.0	U	1.0	0.075	1	NA	5/14/09 16:10	153654
2-Butanone (MEK)	5.0	UUT	5.0	1.5	1	NA	5/14/09 16:10	153654
2-Hexanone	5.0	U	5.0	1.1	1	NA	5/14/09 16:10	153654
4-Methyl-2-pentanone	5.0		5.0	0.53	1	NA	5/14/09 16:10	153654
Acetone	1.9	J J	5.0	0.97	1	NA	5/14/09 16:10	153654
Benzene	1.0	U	1.0	0.057	1	NA	5/14/09 16:10	153654
Bromochloromethane	1.0	U	1.0	0.10	1	NA	5/14/09 16:10	153654
Bromodichloromethane	1.0	U	1.0	0.050	1	NA	5/14/09 16:10	153654
Bromoform	1.0	U	1.0	0.083	1	NA	5/14/09 16:10	153654
Bromomethane	1.0	U	1.0	0.42	1	NA	5/14/09 16:10	153654
Carbon Disulfide	1.0	U	1.0	0.20	1	NA	5/14/09 16:10	153654
Carbon Tetrachloride	1.0	U	1.0	0.073	1	NA	5/14/09 16:10	153654
Chlorobenzene	1.0	U	1.0	0.087	1	NA	5/14/09 16:10	153654
Chloroethane	1.0	U	1.0	0.093	1	NA	5/14/09 16:10	153654
Chloroform	1.0	U	1.0	0.12	1	NA	5/14/09 16:10	153654
Chloromethane	1.0	U	1.0	0.13	1	NA	5/14/09 16:10	153654
cis-1,2-Dichloroethene	1.0	U	1.0	0.10	1	NA	5/14/09 16:10	153654
cis-1,3-Dichloropropene	1.0	U	1.0	0.069	1	NA	5/14/09 16:10	153654
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/14/09 16:10	153654
Ethylbenzene	1.0	U	1.0	0.057	1	NA	5/14/09 16:10	153654

Comments:

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name:

Water

Lab Code:

DGC-4S

R0902679-006

Service Request: R0902679

**Date Collected:** 5/12/09 1150 Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/14/09 16:10	)	153654	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/14/09 16:10	)	153654	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/14/09 16:10	)	153654	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/14/09 16:10	)	153654	
Styrene	1.0 U	1.0	0.054	1	NA	5/14/09 16:10	)	153654	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/14/09 16:10	) .	153654	
Toluene	1.0 U	1.0	0.049	1	NA	5/14/09 16:10	)	153654	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/14/09 16:10	)	153654	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/14/09 16:10	)	153654	
Trichloroethene (TCE)	1.0 U	1.0	0.077	1	NA	5/14/09 16:10	)	153654	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/14/09 16:10	)	153654	
Vinyl Chloride	1.0 U	1.0	0.13	. 1	NA	5/14/09 16:10	)	153654	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note		
4-Bromofluorobenzene	100	80-120	5/14/09 16:10				

\\inflow2\starlims\LimsReps\AnalyticalReport.rpt

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	СН			Contract:	SH	AW	D	GC-4S	
Lab Code:	10145	Cas	se No.: F	R09-2679	SAS N	o.:	S	DG No.:	DUPE-	Α
Matrix: (soil/w	vater)	WATER			La	b Sa	mple ID:	R090267	9-006 1	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	La	b File	ID:	W5586.D	)	
Level: (low/m	ned)	LOW			Da	ite Re	eceived:	5/13/09		
% Moisture: r	not dec.	019			Da	ite Ar	alyzed:	5/14/09		
GC Column:	DB-VR	X ID: <u>0.1</u>	8_ (mn	n)	Dil	ution	Factor:	1.0		
Soil Extract V	olume:		_ (uL)		So	il Aliq	uot Volui	me:		(uL)
Number TICs	found:	0	-		CENTRAT or ug/Kg)		UNITS: UG/L			
CAS NO.		COMPOU	ND NAMI	E		RT	ES.	T. CONC.		a

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code: M-25D

R0902679-007

Service Request: R0902679

Date Collected: 5/12/09 0955

Date Received: 5/13/09

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	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.41	5	NA	5/14/09 18:33	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.75	5	NA	5/14/09 18:33	
1,1,2-Trichloroethane	5.0 U	5.0	0.60	5	NA	5/14/09 18:33	153654
1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.60	5	NA	5/14/09 18:33	
1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.55	5	NA	5/14/09 18:33	
1,2,3-Trichlorobenzene	5.0 U	5.0	0.30	5	NA	5/14/09 18:33	153654
1,2,4-Trichlorobenzene	5.0 U	5.0	0.24	5	NA	5/14/09 18:33	153654
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U UJ	5.0	1.3	5	NA	5/14/09 18:33	153654
1,2-Dibromoethane	5.0 U	5.0	0.65	5	NA	5/14/09 18:33	153654
1,2-Dichloroethane	5.0 U	5.0	0.86	5	NA	5/14/09 18:33	153654
1,2-Dichlorobenzene	5.0 U	5.0	0.40	5	NA	5/14/09 18:33	153654
1,2-Dichloropropane	5.0 U	5.0	0.50	5	NA	5/14/09 18:33	153654
1,3-Dichlorobenzene	5.0 U	5.0	0.31	5	NA	5/14/09 18:33	153654
1,4-Dichlorobenzene	5.0 U	5.0	0.38	5	NA	5/14/09 18:33	153654
2-Butanone (MEK)	25 UUT	25	7.1	5	NA	5/14/09 18:33	153654
2-Hexanone	25 U	25	5.5	5	NA	5/14/09 18:33	
4-Methyl-2-pentanone	25 U	25	2.7	5	NA	5/14/09 18:33	153654
Acetone	7.3 J J	25	4.9	5	NA	5/14/09 18:33	153654
Benzene	5.0 U	5.0	0.29	5	NA	5/14/09 18:33	
Bromochloromethane	5.0 U	5.0	0.50	5	NA	5/14/09 18:33	
Bromodichloromethane	5.0 U	5.0	0.25	5	NA	5/14/09 18:33	153654
Bromoform	5.0 U	5.0	0.42	5	NA	5/14/09 18:33	
Bromomethane	5.0 U	5.0	2.1	5	NA	5/14/09 18:33	
Carbon Disulfide	5.0 U	5.0	1.0	5	NA	5/14/09 18:33	153654
Carbon Tetrachloride	52	5.0	0.37	5	NA	5/14/09 18:33	
Chlorobenzene	5.0 U	5.0	0.44	5	NA	5/14/09 18:33	153654
Chloroethane	5.0 U	5.0	0.47	5	NA	5/14/09 18:33	153654
Chloroform	<b>3.8</b> J	5.0	0.60	5	NA	5/14/09 18:33	153654
Chloromethane	5.0 U	5.0	0.65	5	NA	5/14/09 18:33	153654
cis-1,2-Dichloroethene	<b>0.60</b> J	5.0	0.50	5	NA	5/14/09 18:33	153654
cis-1,3-Dichloropropene	5.0 U	5.0	0.35	5	NA	5/14/09 18:33	153654
Dibromochloromethane	5.0 U	5.0	0.65	5	NA	5/14/09 18:33	153654
Ethylbenzene	5.0 U	5.0	0.29	5	NA	5/14/09 18:33	153654

Comments:

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code:

M-25D

R0902679-007

Service Request: R0902679

**Date Collected: 5/12/09 0955** 

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	s Note
Hexachlorobutadiene	5.0	U	5.0	0.60	5	NA	5/14/09 18:33	}	153654	
m,p-Xylenes	5.0	U	5.0	0.65	5	NA	5/14/09 18:33	3	153654	
Dichloromethane (Methylene Chloride)	5.0	U	5.0	0.55	5	NA	5/14/09 18:33	<b>}</b>	153654	
o-Xylene	5.0	U	5.0	0.38	5	NA	5/14/09 18:33	3	153654	
Styrene	5.0	U	5.0	0.27	5	NA	5/14/09 18:33	3	153654	
Tetrachloroethene (PCE)	5.0	U	5.0	0.42	5	NA	5/14/09 18:33	}	153654	
Toluene	5.0	U	5.0	0.25	5	NA	5/14/09 18:33	}	153654	
trans-1,2-Dichloroethene	5.0	U	5.0	0.46	5	NA	5/14/09 18:33	}	153654	
trans-1,3-Dichloropropene	5.0	U	5.0	0.40	5	NA	5/14/09 18:33	}	153654	
Trichloroethene (TCE)	93		5.0	0.39	5	NA	5/14/09 18:33	,	153654	
Trichlorofluoromethane (CFC 11)	5.0	U	5.0	0.60	5	NA	5/14/09 18:33	1	153654	
Vinyl Chloride	5.0	U	5.0	0.65	5	NA	5/14/09 18:33	j'	153654	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note	
4-Bromofluorobenzene	101	80-120	5/14/09 18:33			

Comments:	

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	CH			Contract:	SHAW	1	_	W-25D	
Lab Code:	10145	c	ase No.:	R09-2679	SAS No	.:	s	DG No.:	DUPE	E-A
Matrix: (soil/w	ater)	WATER	<del></del>		Lat	Sampl	e ID:	R09026	79-007	5.0
Sample wt/vol	<b>l:</b>	25.0	(g/ml)	ML	Lat	File ID	:	W5590.I	D	
Level: (low/m	ed)	LOW	·		Dat	e Rece	ived:	5/13/09		_
% Moisture: n	ot dec.				Dat	e Analy	zed:	5/14/09		_
GC Column:	DB-VR	X ID: C	).18 (m	m)	Dilu	tion Fa	ctor:	5.0		
Soil Extract Vo	olume:		(uL)		Soil	Aliquot	Volu	me:		_ (uL)
, .				CON	CENTRAT	ON UN	ITS:			
Number TICs	found:	0		(ug/L	or ug/Kg)	UG	/L	·		
CAS NO.		СОМРО	UND NAM	1E		RT	ES.	T. CONC		Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name:

Water

Lab Code:

M-11D

R0902679-008

Service Request: R0902679

**Date Collected:** 5/12/09 0910

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.081	1	NA	5/14/09 16:45	5 153654
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	1	NA	5/14/09 16:45	153654
1,1,2-Trichloroethane	1.0 U	1.0	0.12	1	NA	5/14/09 16:45	153654
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.12	1	NA	5/14/09 16:45	153654
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.11	ľ	NA	5/14/09 16:45	153654
1,2,3-Trichlorobenzene	1.0 U	1.0	0.060	1	NA	5/14/09 16:45	153654
1,2,4-Trichlorobenzene	1.0 U	1.0	0.048	1	NA	5/14/09 16:45	153654
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U UJ	1.0	0.25	1	NA	5/14/09 16:45	153654
1,2-Dibromoethane	1.0 U	1.0	0.13	1	NA	5/14/09 16:45	153654
1,2-Dichloroethane	1.0 U	1.0	0.17	1	NA	5/14/09 16:45	153654
1,2-Dichlorobenzene	1.0 U	1.0	0.079	1	NA	5/14/09 16:45	153654
1,2-Dichloropropane	1.0 U	1.0	0.10	1	NA	5/14/09 16:45	153654
1,3-Dichlorobenzene	1.0 U	1.0	0.062	1	NA	5/14/09 16:45	153654
1,4-Dichlorobenzene	1.0 U	1.0	0.075	1	NA	5/14/09 16:45	153654
2-Butanone (MEK)	5.0 UUJ	5.0	1.5	1	NA	5/14/09 16:45	153654
2-Hexanone	5.0 U	5.0	1.1	1	NA	5/14/09 16:45	153654
4-Methyl-2-pentanone	5.0 U	5.0	0.53	1	NA	5/14/09 16:45	153654
Acetone	2.8 J J	5.0	0.97	1	NĄ	5/14/09 16:45	153654
Benzene	1.0 U	1.0	0.057	1	NA	5/14/09 16:45	153654
Bromochloromethane	1.0 U	1.0	0.10	1	NA	5/14/09 16:45	
Bromodichloromethane	1.0 U	1.0	0.050	1	NA	5/14/09 16:45	153654
Bromoform	1.0 U	1.0	0.083	1	NA	5/14/09 16:45	153654
Bromomethane	1.0 U	1.0	0.42	1	NA	5/14/09 16:45	
Carbon Disulfide	1.0 U	1.0	0.20	1	NA	5/14/09 16:45	153654
Carbon Tetrachloride	11	1.0	0.073	1	NA	5/14/09 16:45	153654
Chlorobenzene	1.0 U	1.0	0.087	1		5/14/09 16:45	153654
Chloroethane	1.0 U	1.0	0.093	1	NA	5/14/09 16:45	153654
Chloroform	1.4	1.0	0.12	1	NA	5/14/09 16:45	153654
Chloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 16:45	153654
cis-1,2-Dichloroethene	1.0 U	1.0	0.10	1	NA	5/14/09 16:45	153654
cis-1,3-Dichloropropene	1.0 U	1.0	0.069	1	NA	5/14/09 16:45	153654
Dibromochloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 16:45	153654
Ethylbenzene	1.0 U	1.0	0.057	1	NA	5/14/09 16:45	153654

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Water

Sample Name:

M-11D

Lab Code:

R0902679-008

Service Request: R0902679

Date Collected: 5/12/09 0910 Date Received: 5/13/09

> 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	Dilution Factor	Date Extracted		Extraction Lot	Analysi Lot	is Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/14/09 16:45	)	153654	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/14/09 16:45	5	153654	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/14/09 16:45	5	153654	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/14/09 16:45	;	153654	
Styrene	1.0 U	1.0	0.054	1	NA	5/14/09 16:45	;	153654	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/14/09 16:45	i	153654	
Toluene	0.10 J	1.0	0.049	1	NA	5/14/09 16:45	j	153654	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/14/09 16:45	j	153654	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/14/09 16:45	i	153654	
Trichloroethene (TCE)	1.6	1.0	0.077	1	NA	5/14/09 16:45	<del></del> ;	153654	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/14/09 16:45		153654	
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/14/09 16:45	<b>i</b>	153654	

Surrogate Name	%Rec	Control Limits	Date Analyzed O	Note
4-Bromofluorobenzene	101	80-120	5/14/09 16:45	

Comments:
-----------

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RO	OCH			Contract:	SHAV	٧		M-11D	
Lab Code:	10145	Ca	se No.:	R09-2679	SAS No	o.:	SD	G No.:	DUPE	-A
Matrix: (soil/v	vater)	WATER			Lal	b Samp	le ID: F	R09026	79-008	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lal	File IC	): <u>v</u>	V5587.I	כ	_
Level: (low/m	ned)	LOW	***		Da	te Rece	ived: 5	/13/09		_
% Moisture: r	not dec.				Da	te Analy	/zed: <u>5</u>	/14/09		_
GC Column:	DB-VF	<u>X</u> ID: <u>0.</u>	18 (m	nm)	Dilu	ution Fa	ctor: 1	.0		-
Soil Extract V	olume:		_ (uL)		Soi	l Aliquo	t Volum	e:		(uL)
				CON	CENTRAT	ION UN	IITS:			
Number TICs	found:	0	-	(ug/l	or ug/Kg)	UC	S/L		٠,	
CAS NO.		COMPOU	ND NAM	<b>л</b> Е	72.7 11124	RT	EST.	CONC		Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Water

Lab Code:

M-29D R0902679-009 Service Request: R0902679

Date Collected: 5/12/09-0840

Date Received: 5/13/09

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	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	3.4		2.0	0.17	2	NA	5/14/09 17:58	153654
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.30	2	NA	5/14/09 17:58	153654
1,1,2-Trichloroethane	2.0	U	2.0	0.24	2	NA	5/14/09 17:58	153654
1,1-Dichloroethane (1,1-DCA)	2.0		2.0	0.24	2	NA	5/14/09 17:58	
1,1-Dichloroethene (1,1-DCE)	2.0		2.0	0.22	2	NA	5/14/09 17:58	
1,2,3-Trichlorobenzene	2.0	U	2.0	0.12	2	NA	5/14/09 17:58	153654
1,2,4-Trichlorobenzene	2.0		2.0	0.096	2	NA	5/14/09 17:58	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	UUJ	2.0	0.50	2	NA	5/14/09 17:58	
1,2-Dibromoethane	2.0	U	2.0	0.26	2	NA	5/14/09 17:58	153654
1,2-Dichloroethane	2.0	U	2.0	0.34	2	NA	5/14/09 17:58	
1,2-Dichlorobenzene	2.0		2.0	0.16	2	NA	5/14/09 17:58	
1,2-Dichloropropane	2.0	U	2.0	0.20	2	NA	5/14/09 17:58	153654
1,3-Dichlorobenzene	2.0		2.0	0.13	2	NA	5/14/09 17:58	
1,4-Dichlorobenzene	2.0		_ 2.0	0.15	2	NA	5/14/09 17:58	The state of the s
2-Butanone (MEK)	10	UUJ	10	2.9	2	NA	5/14/09 17:58	153654
2-Hexanone	10		10	2.2	2	NA	5/14/09 17:58	
4-Methyl-2-pentanone	10		10	1.1	2	NA	5/14/09 17:58	
Acetone	4.4	J J	10	2.0	2	NA	5/14/09 17:58	153654
Benzene	2.0		2.0	0.12	2	NA	5/14/09 17:58	
Bromochloromethane	2.0		2.0	0.20	2	NA	5/14/09 17:58	
Bromodichloromethane	2.0	Ŭ	2.0	0.10	2	NA	5/14/09 17:58	153654
Bromoform	2.0		2.0	0.17	2	NA	5/14/09 17:58	
Bromomethane	2.0		2.0	0.84	2	ΝA	5/14/09 17:58	
Carbon Disulfide	2.0	U	2.0	0.40	2	NA	5/14/09 17:58	153654
Carbon Tetrachloride	30		2.0	0.15	2	NA	5/14/09 17:58	
Chlorobenzene	2.0	U	2.0	0.18	2	NA	5/14/09 17:58	
Chloroethane	2.0	U	2.0	0.19	2	NA	5/14/09 17:58	153654
Chloroform	2.5		2.0	0.24	2	NA	5/14/09 17:58	153654
Chloromethane	2.0	U	2.0	0.26	2	NA	5/14/09 17:58	153654
cis-1,2-Dichloroethene	0.24	J	2.0	0.20	2	NA	5/14/09 17:58	153654
cis-1,3-Dichloropropene	2.0	U	2.0	0.14	2	NA	5/14/09 17:58	153654
Dibromochloromethane	2.0	U	2.0	0.26	2	NA	5/14/09 17:58	
Ethylbenzene	2.0	U	2.0	0.12	2	NA	5/14/09 17:58	153654

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Water

Lab Code:

M-29D R0902679-009 Service Request: R0902679

Date Collected: 5/12/09 0840

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	Note
Hexachlorobutadiene	2.0	U	2.0	0.24	2	NA	5/14/09 17:58		153654	
m,p-Xylenes	2.0	U	2.0	0.26	2	NA	5/14/09 17:58	}	153654	
Dichloromethane (Methylene Chloride)	2.0	Ù	2.0	0.22	2	NA	5/14/09 17:58	<b>3</b>	153654	
o-Xylene	2.0	U	2.0	0.15	2	NA	5/14/09 17:58	}	153654	
Styrene	2.0	U	2.0	0.11	2	NA	5/14/09 17:58	}	153654	
Tetrachloroethene (PCE)	2.0	U	2.0	0.17	2	NA	5/14/09 17:58	3	153654	
Toluene	2.0	U	2.0	0.098	2	NA	5/14/09 17:58	3	153654	
trans-1,2-Dichloroethene	2.0	U	2.0	0.19	2	NA	5/14/09 17:58	}	153654	
trans-1,3-Dichloropropene	2.0	U	2.0	0.16	2	NA	5/14/09 17:58	3	153654	
Trichloroethene (TCE)	11		2.0	0.16	2	NA	5/14/09 17:58	3	153654	
Trichlorofluoromethane (CFC 11)	2.0	U	2.0	0.24	2	NA	5/14/09 17:58	}	153654	
Vinyl Chloride	2.0		2.0	0.26	2	NA	5/14/09 17:58	<u> </u>	153654	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	99	80-120	5/14/09 17:58		

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	OCH			Contract:	SHA	N	. L	M-29D	
Lab Code:	10145	(	Case No.:	R09-2679	SAS No		S	DG No.:	DUPE	-A
Matrix: (soil/w	ater)	WATER			Lat	Samı	ple ID:	R09026	79-009	2.0
Sample wt/vo	ł:	25.0	(g/ml)	ML	Lab	File i	D:	W5589.I	D	_
Level: (low/m	ned)	LOW	-		Dat	e Rec	eived:	5/13/09		_
% Moisture: n	ot dec.				Dat	e Anal	lyzed:	5/14/09		_
GC Column:	DB-VF	X ID:	0.18 (m	nm)	Dilu	tion F	actor:	2.0		_
Soil Extract V	olume:		(uL)		Soil	Alique	ot Volur	ne:		(uL)
				CON	ICENTRAT	ON U	NITS:			
Number TICs	found:	0		(ug/l	or ug/Kg)	<u>U</u>	G/L			
CAS NO.		СОМРО	DUND NAM	ΛE		RT	ES	Γ. CONC	·•	Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water 14D

Sample Name: Lab Code:

R0902679-010

Service Request: R0902679 Date Collected: 5/12/09 0810

Date Received: 5/13/09

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	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot Not
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.081	1	NA	5/14/09 17:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	1	NA	5/14/09 17:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.12	1	NA	5/14/09 17:21	153654
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	, 0.12	1	NA	5/14/09 17:21	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.11	1	NA	5/14/09 17:21	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.060	1	NA	5/14/09 17:21	153654
1,2,4-Trichlorobenzene	1.0 U	1.0	0.048	1	NA	5/14/09 17:21	
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U U	1.0	0.25	1	NA	5/14/09 17:21	
1,2-Dibromoethane	1.0 U	1.0	0.13	1	NA	5/14/09 17:21	153654
1,2-Dichloroethane	1.0 U	1.0	0.17	1	NA	5/14/09 17:21	
1,2-Dichlorobenzene	1.0 U	1.0	0.079	1	NA	5/14/09 17:21	153654
1,2-Dichloropropane	1.0 U	1.0	0.10	1	NA	5/14/09 17:21	153654
1,3-Dichlorobenzene	1.0 U	1.0	0.062	1	NA	5/14/09 17:21	153654
1,4-Dichlorobenzene	1.0 U	1.0	0.075	1	NA	5/14/09 17:21	153654
2-Butanone (MEK)	5.0 UUJ	5.0	1.5	1	NA	5/14/09 17:21	153654
2-Hexanone	5.0 U	5.0	1.1	1	NA	5/14/09 17:21	153654
4-Methyl-2-pentanone	5.0 U	5.0	0.53	• 1	NA	5/14/09 17:21	
Acetone	5.0 UUJ	5.0	0.97	1	NA	5/14/09 17:21	153654
Benzene	1.0 U	1.0	0.057	1	NA	5/14/09 17:21	
Bromochloromethane	1.0 U	1.0	0.10	1	NA	5/14/09 17:21	
Bromodichloromethane	1.0 U	1.0	0.050	1	NA	5/14/09 17:21	153654
Bromoform	1.0 U	1.0	0.083	1	NA	5/14/09 17:21	153654
Bromomethane	1.0 U	1.0	0.42	1	NA	5/14/09 17:21	
Carbon Disulfide	1.0 U	1.0	0.20	1	NA	5/14/09 17:21	153654
Carbon Tetrachloride	1.0 U	1.0	0.073	1	NA	5/14/09 17:21	
Chlorobenzene	1.0 U	1.0	0.087	1	NA	5/14/09 17:21	
Chloroethane	1.0 U	1.0	0.093	1	NA	5/14/09 17:21	153654
Chloroform	1.0 U	1.0	0.12	1	NA	5/14/09 17:21	
Chloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 17:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.10	1	NA	5/14/09 17:21	153654
cis-1,3-Dichloropropene	1.0 U	1.0	0.069	1	NA	5/14/09 17:21	153654
Dibromochloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 17:21	153654
Ethylbenzene	1.0 U	1.0	0.057	1	NA	5/14/09 17:21	153654

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name: Water

Lab Code:

14D R0902679-010 Service Request: R0902679

**Date Collected:** 5/12/09 0810

Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysi Lot	s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/14/09 17:21	l	153654	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/14/09 17:21	l	153654	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/14/09 17:21	İ	153654	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/14/09 17:21		153654	
Styrene	1.0 U	1.0	0.054	1	NA	5/14/09 17:21	į	153654	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/14/09 17:21	[	153654	
Toluene	1.0 U	1.0	0.049	1	NA	5/14/09 17:21		153654	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/14/09 17:21		153654	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/14/09 17:21		153654	
Trichloroethene (TCE)	1.0 U	1.0	0.077	1	NA	5/14/09 17:21		153654	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	] .	NA	5/14/09 17:21		153654	
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/14/09 17:21		153654	

Comments No.		Control	Date	<b>N</b> 7 - 4 -	
Surrogate Name	%Rec	Limits	Analyzed Q	Note	
4-Bromofluorobenzene	99	80-120	5/14/09 17:21		

Comm	ents
------	------

00035

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	EPA	SAMP	LE NO
--	-----	------	-------

Lab Name:	CAS/RC	СН			Contract:	S	SHAW		14D	
Lab Code:	10145		Case No.: R	09-2679	SAS N	o.:	s	DG No.:	DUPE	-A
Matrix: (soil/w	ater)	WATE	<u> </u>		La	b S	Sample ID:	R09026	79-010	1.0
Sample wt/vo	<b>i</b> :	25.0	(g/ml) <u>N</u>	1L	La	b F	ile ID:	W5588.	D	
Level: (low/m	ed)	LOW	· .		Da	ate	Received:	5/13/09		_
% Moisture: n	ot dec.				Da	ite .	Analyzed:	5/14/09		_
GC Column:	DB-VF	X ID:	<u>0.18</u> (mm	)	Dil	utic	on Factor:	1.0	-	- -
Soil Extract Vo	olume:		(uL)		So	il A	liquot Volu	me:		(uL)
Number TICs	found:	0			CENTRAT or ug/Kg)		N UNITS: UG/L			
CAS NO.		COMP	OUND NAME			R	RT ES	T. CONC		Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Water

Lab Code:

Cooler Blank R0902679-011 Service Request: R0902679

Date Collected: 5/13/09
Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.081	1	NA	5/19/09 22:45	154241
1,1,2,2-Tetrachloroethane	1.0 T		1.0	0.15	1	NA	5/19/09 22:45	154241
1,1,2-Trichloroethane	1.0 U	Ŭ	1.0	0.12	1	NA	5/19/09 22:45	154241
1,1-Dichloroethane (1,1-DCA)	1.0 U		1.0	0.12	1	NA	5/19/09 22:45	154241
1,1-Dichloroethene (1,1-DCE)	1.0 ₹		1.0	. 0.11	. 1	NA	5/19/09 22:45	154241
1,2,3-Trichlorobenzene	1.0 ₹	IJ	1.0	0.060	1	NA	5/19/09 22:45	154241
1,2,4-Trichlorobenzene	1.0 (	J	1.0	0.048	1	NA	5/19/09 22:45	154241
1,2-Dibromo-3-chloropropane (DBCP)	1.0 T	J <b>U</b> 5	1.0	0.25	1	NA	5/19/09 22:45	154241
1,2-Dibromoethane	1.0 ₹	J	1.0	0.13	1	NA	5/19/09 22:45	154241
1,2-Dichloroethane	1.0 T	J	1.0	0.17	1	NA	5/19/09 22:45	154241
1,2-Dichlorobenzene	1.0 T	J	1.0	0.079	1	NA	5/19/09 22:45	154241
1,2-Dichloropropane	1.0 U	J	1.0	0.10	1	NA	5/19/09 22:45	154241
1,3-Dichlorobenzene	1.0 U	J	1.0	0.062	1	NA	5/19/09 22:45	154241
1,4-Dichlorobenzene	1.0 U		1.0	0.075	1	NA	5/19/09 22:45	154241
2-Butanone (MEK)	5.0 U	Juj	5.0	1.5	1	NA	5/19/09 22:45	
2-Hexanone	5.0 U	J	5.0	1.1	1	NA	5/19/09 22:45	154241
4-Methyl-2-pentanone	5.0 L		5.0	0.53	1	NA	5/19/09 22:45	154241
Acetone	5.0 L	JUJ	5.0	0.97	1	NA	5/19/09 22:45	154241
Benzene	1.0 U		1.0	0.057	1	NA	5/19/09 22:45	154241
Bromochloromethane	1.0 L		1.0	0.10	1	NA	5/19/09 22:45	154241
Bromodichloromethane	1.0 U	J	1.0	0.050	1	NA	5/19/09 22:45	154241
Bromoform	1.0 L		1.0	0.083	1	NA	5/19/09 22:45	154241
Bromomethane	1.0 U	J	1.0	0.42	1	NA	5/19/09 22:45	154241
Carbon Disulfide	1.0 U	J	1.0	0.20	1	NA	5/19/09 22:45	154241
Carbon Tetrachloride	1.0 U		1.0	0.073	1	NA	5/19/09 22:45	154241
Chlorobenzene	1.0 U		1.0	0.087	1	NA	5/19/09 22:45	154241
Chloroethane	1.0 U	]	1.0	0.093	1	NA	5/19/09 22:45	154241
Chloroform	1.0 U		1.0	0.12	1	NA	5/19/09 22:45	154241
Chloromethane	1.0 U		1.0	0.13	1	NA	5/19/09 22:45	154241
cis-1,2-Dichloroethene	1.0 U	J	1.0	0.10	1	NA	5/19/09 22:45	154241
cis-1,3-Dichloropropene	1.0 U		1.0	0.069	1	NA	5/19/09 22:45	154241
Dibromochloromethane	1.0 U		1.0	0.13	1	NA	5/19/09 22:45	154241
Ethylbenzene	1.0 U	J	1.0	0.057	1	NA .	5/19/09 22:45	154241

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

Lab Code:

GE MRFA Project #134815

Sample Matrix: Sample Name: Water

Cooler Blank R0902679-011 Analytical Repor

Service Request: R0902679

Date Collected: 5/13/09
Date Received: 5/13/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/19/09 22:45	5	154241	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/19/09 22:45	5	154241	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/19/09 22:45	5	154241	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/19/09 22:45	5	154241	
Styrene	1.0 U	1.0	0.054	1	NA	5/19/09 22:45	5	154241	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/19/09 22:45	5	154241	
Toluene	1.0 U	1.0	0.049	1	NA	5/19/09 22:45	5	154241	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/19/09 22:45	5	154241	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/19/09 22:45	5	154241	
Trichloroethene (TCE)	1.0 U	1.0	0.077	1	NA	5/19/09 22:45	5	154241	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/19/09 22:45	5	154241	•
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/19/09 22:45	5 .	154241	

		Control	Date			
Surrogate Name	%Rec	Limits	Analyzed	Q	Note	
4-Bromofluorobenzene	96	80-120	5/19/09 22:45			

Comments:	
-----------	--

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RO	OCH			Contract:	SHAV	/	COOL	EK BL	
Lab Code:	10145		Case No.:	R09-2679	SAS No	.:	s	DG No.:	)UPE-A	<u> </u>
Matrix: (soil/v	vater)	WATER			Lat	Samp	le ID:	R0902679	-011 1.	.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lat	File IC	<b>)</b> :	W5653.D		
Level: (low/n	ned)	LOW	<del></del>		Dat	e Rece	ived:	5/13/09		
% Moisture: r	not dec.				Dat	e Analy	zed:	5/19/09		
GC Column:	DB-VF	X ID:	<u>0.18</u> (m	nm)	Dilu	ition Fa	ctor:	1.0		
Soil Extract V	olume:		(uL)		Soil	Aliquo	t Volur	ne:		(uL)
				CON	ICENTRAT	ON UN	IITS:			
Number TICs	found:	0		(ug/l	or ug/Kg)	UG	6/L	·		
CAS NO.		COMPO	DUND NAM	ИE		RT	ES	Γ. CONC.	Q	

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code:

TRIP BLANK

R0902679-012

Service Request: R0902679

Date Collected: 5/12/09 Date Received: 5/13/09

> Units: µg/L Basis: NA

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

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result Q	MR	L MDL	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.081	1	NA	5/14/09 19:09	153654
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	1	NA	5/14/09 19:09	153654
1,1,2-Trichloroethane	1.0 U	1.0	0.12	1	NA	5/14/09 19:09	153654
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.12	1	NA	5/14/09 19:09	153654
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.11	1	NA	5/14/09 19:09	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.060	1	NA	5/14/09 19:09	153654
1,2,4-Trichlorobenzene	1.0 U		0.048	1	NA	5/14/09 19:09	
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	UJ 1.0	0.25	1	NA	5/14/09 19:09	153654
1,2-Dibromoethane	1.0 U	1.0	0.13	1	NA	5/14/09 19:09	153654
1,2-Dichloroethane	1.0 U	1.0	0.17	1	NA	5/14/09 19:09	
1,2-Dichlorobenzene	1.0 U	1.0	0.079	1	NA .	5/14/09 19:09	
1,2-Dichloropropane	1.0 U	1.0	0.10	1	NA	5/14/09 19:09	153654
1,3-Dichlorobenzene	1.0 U	1.0	0.062	1	NA	5/14/09 19:09	
1,4-Dichlorobenzene	1.0 U	1.0	0.075	1	NA	5/14/09 19:09	
2-Butanone (MEK)	5.0 U	WJ 5.0	1.5	1	NA	5/14/09 19:09	153654
2-Hexanone	5.0 U	5.0	1.1	1	NA	5/14/09 19:09	
4-Methyl-2-pentanone	5.0 U			1	NA	5/14/09 19:09	
Acetone	5.0 U	WJ 5.0	0.97	1	NA	5/14/09 19:09	153654
Benzene	1.0 U	1.0		1	NA	5/14/09 19:09	
Bromochloromethane	1.0 U	1.0	0.10	1	NA	5/14/09 19:09	153654
Bromodichloromethane	1.0 U	1.0	0.050	1	NA	5/14/09 19:09	153654
Bromoform	1.0 U	1.0	0.083	1	NA	5/14/09 19:09	153654
Bromomethane	1.0 U	1.0	0.42	1	NA	5/14/09 19:09	153654
Carbon Disulfide	1.0 U	1.0	0.20	1	NA	5/14/09 19:09	153654
Carbon Tetrachloride	1.0 U	1.0	0.073	1	NA	5/14/09 19:09	153654
Chlorobenzene	1.0 U	1.0	0.087	1	NA	5/14/09 19:09	153654
Chloroethane	1.0 U	1.0	0.093	1	NA	5/14/09 19:09	153654
Chloroform	1.0 U	1.0	0.12	1	NA	5/14/09 19:09	153654
Chloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 19:09	153654
cis-1,2-Dichloroethene	1.0 U	1.0	0.10	1	NA	5/14/09 19:09	153654
cis-1,3-Dichloropropene	1.0 U	1.0	0.069	1	NA	5/14/09 19:09	153654
Dibromochloromethane	1.0 U	1.0	0.13	1	NA	5/14/09 19:09	153654
Ethylbenzene	1.0 U	1.0	0.057	1	NA	5/14/09 19:09	153654

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code:

TRIP BLANK R0902679-012 Service Request: R0902679

Date Collected: 5/12/09 Date Received: 5/13/09

> 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	Dilution Factor	Date Extracted		Extraction A		s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/14/09 19:09	)	153654	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/14/09 19:09	)	153654	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/14/09 19:09	)	153654	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/14/09 19:09	)	153654	
Styrene	1.0 U	1.0	0.054	1	NA	5/14/09 19:09	)	153654	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/14/09 19:09	)	153654	
Toluene	1.0 U	1.0	0.049	1	NA	5/14/09 19:09	)	153654	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/14/09 19:09	)	153654	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/14/09 19:09	)	153654	
Trichloroethene (TCE)	1.0 U	1.0	0.077	l	NA	5/14/09 19:09	)	153654	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/14/09 19:09	)	153654	
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/14/09 19:09	)	153654	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	99	80-120	5/14/09 19:09		

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	OCH			Contract:	SHAV	٧	IRIPB	LANK
Lab Code:	10145	Cas	se No.:	R09-2679	SAS No	o.:	s	DG No.: DL	JPE-A
Matrix: (soil/	water)	WATER	-		La	b Samp	le ID:	R0902679-0	012 1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lal	b File II	<b>D</b> :	W5591.D	
Level: (low/r	ned)	LOW	_		Da	te Rece	eived:	5/13/09	
% Moisture:	not dec.	weekle war			Da	te Anal	yzed:	5/14/09	
GC Column:	DB-VF	<u> X</u> ID: <u>0.1</u>	8 (m	nm)	Dilt	ution Fa	ctor:	1.0	<u>.</u>
Soil Extract \	/olume:		_ (uL)		Soi	l Aliquo	t Volui	me:	(uL)
				CON	ICENTRAT	ION UI	NITS:		
Number TICs	s found:	0		(ug/l	or ug/Kg)	<u>U(</u>	3/L	<del></del>	
CAS NO.		COMPOU	ND NAM	ΛE		RT	ES'	T. CONC.	O

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Water

Lab Code:

DUPE B R0902679-013 Service Request: R0902679

Date Collected: 5/13/09
Date Received: 5/14/09

Units: μg/L Basis: NA

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

Analytical Method: CLP-VOA OLC02.1

				Dilution	Date	Date	Extraction	Analysi	
Analyte Name	Result Q	MRL	MDL	Factor	Extracted	Analyzed	Lot	Lot	Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.081	1	NA	5/19/09 17:57	7	154241	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	1	NA	5/19/09 17:57	7	154241	
1,1,2-Trichloroethane	1.0 U	1.0	0.12	1	NA	5/19/09 17:57	7	154241	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.12	1	NA	5/19/09 17:57		154241	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.11	1	NA	5/19/09 17:57		154241	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.060	1	NA	5/19/09 17:57	7	154241	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.048	1	NA	5/19/09 17:57		154241	
1,2-Dibromo-3-chloropropane (DBCP)	1.0 UUT	1.0	0.25	1	NA	5/19/09 17:57		154241	
1,2-Dibromoethane	1.0 U	1.0	0.13	1	NA	5/19/09 17:57	7	154241	
1,2-Dichloroethane	1.0 U	1.0	0.17	1	NA	5/19/09 17:57	7	154241	
1,2-Dichlorobenzene	1.0 U	1.0	0.079	1	NA	5/19/09 17:57		154241	
1,2-Dichloropropane	1.0 U	1.0	0.10	1	NA	5/19/09 17:57	7	154241	
1,3-Dichlorobenzene	1.0 U	1.0	0.062	1	NA	5/19/09 17:57		154241	
1,4-Dichlorobenzene	1.0 U	1.0	0.075	1	NA	5/19/09 17:57		154241	
2-Butanone (MEK)	5.0 ひひて	5.0	1.5	1	NA	5/19/09 17:57	7	154241	
2-Hexanone	5.0 U	5.0	1.1	1	NA	5/19/09 17:57		154241	
4-Methyl-2-pentanone	5.0 U	5.0	0.53	1	NA	5/19/09 17:57		154241	
Acetone	5.0 U UJ	5.0	0.97	1	NA	5/19/09 17:57	7 	154241	
Benzene	1.0 U	1.0	0.057	1	NA	5/19/09 17:57		154241	
Bromochloromethane	1.0 U	1.0	0.10	1	NA	5/19/09 17:57		154241	
Bromodichloromethane	1.0 U	1.0	0.050	1	NA	5/19/09 17:57	7	154241	
Bromoform	1.0 U	1.0	0.083	1	NA	5/19/09 17:57		154241	
Bromomethane	1.0 U	1.0	0.42	1	NA	5/19/09 17:57		154241	
Carbon Disulfide	1.0 U	1.0	0.20	1	NA	5/19/09 17:57	7	154241	
Carbon Tetrachloride	14	1.0	0.073	1	NA	5/19/09 17:57		154241	
Chlorobenzene	1.0 U	1.0	0.087	1	NA	5/19/09 17:57	7	154241	
Chloroethane	1.0 U	1.0	0.093	1	NA	5/19/09 17:57	7 <u>,</u>	154241	
Chloroform	0.65 J	1.0	0.12	1	NA	5/19/09 17:57		154241	
Chloromethane	1.0 U	1.0	0.13	1	NA	5/19/09 17:57	7	154241	
cis-1,2-Dichloroethene	1.0 U	1.0	0.10	1	NA	5/19/09 17:57	7	154241	
cis-1,3-Dichloropropene	1.0 U	1.0	0.069	1	NA	5/19/09 17:57		154241	
Dibromochloromethane	1.0 U	1.0	0.13	1	NA	5/19/09 17:57		154241	
Ethylbenzene	1.0 U	1.0	0.057	1	NA	5/19/09 17:57	7	154241	

Comments:

Printed 6/4/09 9:11

 $\verb|\limsReps| Analytical Report.rpt|$ 

Form 1A

SuperSet Reference:

09-0000103423 rev 00-

Analytical Report

Low Level Water Volatile Organic Compounds by GC/MS

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name: Water

Lab Code:

DUPE B

Service Request: R0902679

Date Collected: 5/13/09
Date Received: 5/14/09

Units: µg/L Basis: NA

## R0902679-013

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	-	is Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/19/09 17:57	7	154241	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/19/09 17:57	7	154241	
Dichloromethane (Methylene Chloride)	. 1.0 U	1.0	0.11	1	NA	5/19/09 17:57	7	154241	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/19/09 17:57	7	154241	
Styrene	1.0 U	1.0	0.054	1	NA	5/19/09 17:57	7	154241	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/19/09 17:57	7	154241	
Toluene	1.0 U	1.0	0.049	1	NA	5/19/09 17:57	7	154241	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/19/09 17:57	7	154241	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/19/09 17:57	7	154241	
Trichloroethene (TCE)	49 46 E	1.0	0.077	1	NA	5/19/09 17:57	7	154241	
Trichlorofluoromethane (CFC 11)	1.0 U		0.12	1	NA	5/19/09 17:57	7	154241	
Vinyl Chloride	1.0 U		0.13	1	NA	5/19/09 17:57	7	154241	

Surrogate Name	%Re	Control Limits	Date Analyzed	0	Note	
4-Bromofluorobenzene	93	80-120	5/19/09 17:57	<u> </u>	11000	

Co	mm	ents:
----	----	-------

\\inflow2\starlims\LimsReps\AnalyticalReport.rpt

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	СН			Contract:	SHAW	•		OPE B	
Lab Code:	10145	Ca	se No.:	R09-2679	SAS No	.:	SD	G No.:	DUPE-	-A
Matrix: (soil/v	vater)	WATER			Lat	Sample	e ID: _F	R090267	79-013	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lab	File ID	: \[ \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}\signition}}}}}}\simptintion \signition \sinthintion{\sinthintion{\sinthintion{\sint\exiting{\sinthintion{\sint\exiting{\sint\exiting{\sint\exiting{\sinthintion{\sint\exitin{\sinti\sintiin\sintiin\sintiin\sintiin}}}}}} \simptintion \sintiinion \sintiinion \sintiinion \sintiinion \sintiinion \sintiinion \sintiiniiiniiiniiiiiiiiiiiiiiiiiiiiiiii	N5645.[	)	_
Level: (low/n	ned)	LOW			Dat	e Recei	ved: 5	5/14/09		
% Moisture: r	not dec.				Dat	e Analy	zed: 5	5/19/09		<u>-</u>
GC Column:	DB-VF	X ID: 0.	<u>18</u> (m	ım)	Dilu	ition Fac	ctor: 1	.0		
Soil Extract V	olume:		_ (uL)		Soil	Aliquot	Volum	e:		(uL)
				CON	CENTRAT	ION UN	ITS:			
Number TICs	found:	0		(ug/L	or ug/Kg)	UG	/L	<del></del>		
CAS NO.		COMPOU	ND NAN	1E		RT	EST.	CONC		Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name:

Water

Lab Code:

DUPE C R0902679-014 Service Request: R0902679

Date Collected: 5/13/09 Date Received: 5/14/09

> 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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0	Ü	1.0	0.081	1	NA	5/19/09 20:22	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	1	NA	5/19/09 20:22	
1,1,2-Trichloroethane	1.0	U	1.0	0.12	1	NA	5/19/09 20:22	154241
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.12	1	NA	5/19/09 20:22	
1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.11	1	NA	5/19/09 20:22	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.060	1	NA	5/19/09 20:22	
1,2,4-Trichlorobenzene	1.0		1.0	0.048	1	NA	5/19/09 20:22	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	U <b>U</b> J	1.0	0.25	1	NA	5/19/09 20:22	
1,2-Dibromoethane	1.0	U	1.0	0.13	1	NA	5/19/09 20:22	154241
1,2-Dichloroethane	1.0	U	1.0	0.17	1	NA	5/19/09 20:22	
1,2-Dichlorobenzene	1.0	U	1.0	0.079	1	NA	5/19/09 20:22	
1,2-Dichloropropane	1.0	U	1.0	0.10	1	NA	5/19/09 20:22	154241
1,3-Dichlorobenzene	1.0	U	1.0	0.062	1	NA	5/19/09 20:22	
1,4-Dichlorobenzene	1.0		1.0	0.075	1	NA	5/19/09 20:22	
2-Butanone (MEK)	5.0	UUT	5.0	1.5	1	NA	5/19/09 20:22	154241
2-Hexanone	5.0		5.0	1.1	1	NA	5/19/09 20:22	
4-Methyl-2-pentanone	5.0		5.0	0.53	1	NA	5/19/09 20:22	
Acetone	1.4	1 7	5.0	0.97	1	NA	5/19/09 20:22	154241
Benzene	1.0		1.0	0.057	1	NA	5/19/09 20:22	
Bromochloromethane	1.0	U	1.0	0.10	1	NA	5/19/09 20:22	
Bromodichloromethane	1.0	U	1.0	0.050	1	NA	5/19/09 20:22	154241
Bromoform	1.0	U	1.0	0.083	1	NA	5/19/09 20:22	
Bromomethane	1.0	U	1.0	0.42	1	NA	5/19/09 20:22	
Carbon Disulfide	1.0	U	1.0	0.20	1	NA	5/19/09 20:22	154241
Carbon Tetrachloride	0.17	J	1.0	0.073	1	NA	5/19/09 20:22	
Chlorobenzene	1.0	U	1.0	0.087	1	NA	5/19/09 20:22	
Chloroethane	1.0	U	1.0	0.093	1	NA	5/19/09 20:22	154241
Chloroform	1.0	U	1.0	0.12	1	NA	5/19/09 20:22	
Chloromethane	1.0	U	1.0	0.13	1	NA	5/19/09 20:22	
cis-1,2-Dichloroethene	1.0	U	1.0	0.10	1	NA	5/19/09 20:22	154241
cis-1,3-Dichloropropene	1.0	U	1.0	0.069	1	NA	5/19/09 20:22	
Dibromochloromethane	1.0		1.0	0.13	1	NA	5/19/09 20:22	154241
Ethylbenzene	1.0	U	1.0	0.057	1	NA	5/19/09 20:22	154241

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Water

Lab Code:

DUPE C

R0902679-014

Service Request: R0902679

Date Collected: 5/13/09
Date Received: 5/14/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/19/09 20:22	2	154241	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/19/09 20:22	2	154241	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1 .	NA	5/19/09 20:22	<u>)</u>	154241	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/19/09 20:22	<u>2</u> .	154241	
Styrene	1.0 U	1.0	0.054	1	NA	5/19/09 20:22	2	154241	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/19/09 20:22	2	154241	
Toluene	1.0 U	1.0	0.049	1	NA	5/19/09 20:22	?	154241	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/19/09 20:22	2	154241	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/19/09 20:22	2	154241	
Trichloroethene (TCE)	<b>0.27</b> J	1.0	0.077	1	NA	5/19/09 20:22	2	154241	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/19/09 20:22	2	154241	
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/19/09 20:22	2	154241	

Surrogate Name	%Rec	Control Limits	Date Analyzed	0	Note	
4-Bromofluorobenzene	95	80-120	5/19/09 20:22			

\\inflow2\starlims\LimsReps\AnalyticalReport.rpt

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

<b>EPA</b>	SAMF	LE NO
------------	------	-------

Lab Name:	CAS/RO	ОСН			Contract:	SH	AW		OUPE C	;
Lab Code:	10145	Ca	se No.:	R09-2679	SAS No	 >.:	S	DG No.:	DUPE	ĒΑ
Matrix: (soil/v	water)	WATER	_		La	b Sa	mple ID:	R09026	79-014	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lai	b File	D:	W5649.	D	
Level: (low/n	ned)	LOW	_		Da	te Re	eceived:	5/14/09		_
% Moisture:	not dec.				Da	te Ar	nalyzed:	5/19/09		
GC Column:	DB-VF	X ID: 0.	<u>18</u> (m	m)	Dile	ution	Factor:	1.0		
Soil Extract V	/olume:		_ (uL)		Soi	l Aliq	uot Volur	me:		_ (uL)
Number TICs	found:	0	_		ICENTRAT . or ug/Kg)		UNITS: UG/L			
CAS NO.		COMPOU	ND NAM	1E		RT	ES ⁻	T. CONC	·	Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code: M-24 DR

R0902679-015

Service Request: R0902679

**Date Collected:** 5/13/09 0920

Date Received: 5/14/09

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	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.081	1	NA	5/19/09 16:49	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	1	NA	5/19/09 16:49	
1,1,2-Trichloroethane	1.0 U	1.0	0.12	1	NA	5/19/09 16:49	154241
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.12	1	NA	5/19/09 16:49	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.11	1	NA	5/19/09 16:49	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.060	1	NA	5/19/09 16:49	154241
1,2,4-Trichlorobenzene	1.0 U	1.0	0.048	1	NA	5/19/09 16:49	154241
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U UJ	1.0	0.25	1	NA	5/19/09 16:49	154241
1,2-Dibromoethane	1.0 U	1.0	0.13	1	NA	5/19/09 16:49	154241
1,2-Dichloroethane	1.0 U	1.0	0.17	1	NA	5/19/09 16:49	154241
1,2-Dichlorobenzene	1.0 U	1.0	0.079	1	NA	5/19/09 16:49	154241
1,2-Dichloropropane	1.0 U	1.0	0.10	1	NA	5/19/09 16:49	154241
1,3-Dichlorobenzene	1.0 U	1.0	0.062	1	NA	5/19/09 16:49	154241
1,4-Dichlorobenzene	1.0 U	1.0	0.075	1	NA	5/19/09 16:49	154241
2-Butanone (MEK)	5.0 UUJ	5.0	1.5	1	NA	5/19/09 16:49	154241
2-Hexanone	5.0 U	5.0	1.1	1	NA	5/19/09 16:49	
4-Methyl-2-pentanone	5.0 U	5.0	0.53	1	NA	5/19/09 16:49	154241
Acetone	5.0 ひんづ	5.0	0.97	1	NA	5/19/09 16:49	154241
Benzene	1.0 U	1.0	0.057	1	NA	5/19/09 16:49	
Bromochloromethane	1.0 U	1.0	0.10	1	NA	5/19/09 16:49	
Bromodichloromethane	1.0 U	1.0	0.050	1	NA	5/19/09 16:49	154241
Bromoform	1.0 U	1.0	0.083	1	NA	5/19/09 16:49	154241
Bromomethane	1.0 U	1.0	0.42	1	NA	5/19/09 16:49	
Carbon Disulfide	1.0 U	1.0	0.20	1	NA	5/19/09 16:49	154241
Carbon Tetrachloride	16	1.0	0.073	1	NA	5/19/09 16:49	
Chlorobenzene	1.0 U	1.0	0.087	1	NA	5/19/09 16:49	
Chloroethane	1.0 U	1.0	0.093	1	NA	5/19/09 16:49	154241
Chloroform	0.68 J	1.0	0.12	1	NA	5/19/09 16:49	
Chloromethane	1.0 U	1.0	0.13	1	NA	5/19/09 16:49	
cis-1,2-Dichloroethene	1.0 U	1.0	0.10	1	NA	5/19/09 16:49	154241
cis-1,3-Dichloropropene	1.0 U	1.0	0.069	1		5/19/09 16:49	
Dibromochloromethane	1.0 U	1.0	0.13	1		5/19/09 16:49	
Ethylbenzene	1.0 U	1.0	0.057	1	NA	5/19/09 16:49	154241

Comments:

00052

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name: Water

Lab Code:

M-24 DR R0902679-015 Service Request: R0902679

Date Collected: 5/13/09 0920

Date Received: 5/14/09

Units: μg/L Basis: NA

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

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Res	sult Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	is Noté
Hexachlorobutadiene		1.0 U	1.0	0.12	1	NA	5/19/09 16:49	)	154241	
m,p-Xylenes		1.0 U	1.0	0.13	1	NA	5/19/09 16:49	)	154241	
Dichloromethane (Methylene Chloride)		1.0 U	1.0	0.11	1	NA	5/19/09 16:49	)	154241	
o-Xylene		1.0 U	1.0	0.075	1	NA	5/19/09 16:49	)	154241	
Styrene		1.0 U	1.0	0.054	1	NA	5/19/09 16:49	)	154241	
Tetrachloroethene (PCE)		1.0 U	1.0	0.083	1	NA	5/19/09 16:49	)	154241	
Toluene		1.0 U	1.0	0.049	1	NA	5/19/09 16:49	) .	154241	
trans-1,2-Dichloroethene		1.0 U	1.0	0.092	1	NA	5/19/09 16:49	)	154241	
trans-1,3-Dichloropropene		1.0 U	1.0	0.079	1	NA	5/19/09 16:49	)	154241	
Trichloroethene (TCE)	49	48-E	1.0	0.077	1	NA	5/19/09 16:49	)	154241	
Trichlorofluoromethane (CFC 11)	,	1.0 U	1.0	0.12	1	NA	5/19/09 16:49	)	154241	
Vinyl Chloride		1.0 U	1.0	0.13	1	NA	5/19/09 16:49	)	154241	

		Control	Date			
Surrogate Name	%Rec	Limits	Analyzed	Q	Note	
4-Bromofluorobenzene	95	80-120	5/19/09 16:49			

Comments	

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-24 DR Lab Name: CAS/ROCH Contract: SHAW Lab Code: 10145 Case No.: R09-2679 SAS No.: SDG No.: DUPE-A Matrix: (soil/water) WATER Lab Sample ID: R0902679-015|1.0 Sample wt/vol: (g/ml) ML 25.0 Lab File ID: W5643.D Level: (low/med) LOW Date Received: 5/14/09 % Moisture: not dec. Date Analyzed: 5/19/09 GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: Soil Extract Volume: (uL) (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L Number TICs found: 0 CAS NO. **COMPOUND NAME** RT EST. CONC. Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Lab Code:

Water

MRFA INFLUENT

R0902679-016

Service Request: R0902679

**Date Collected:** 5/13/09 0845 Date Received: 5/14/09

> 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	Dilution Factor	Date Extracted		Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	2.5 U	2.5	0.21	2.5	NA	5/19/09 18:31	154241
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.38	2.5	NA	5/19/09 18:31	154241
1,1,2-Trichloroethane	2.5 U	2.5	0.30	2.5	NA	5/19/09 18:31	154241
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	0.30	2.5	NA	5/19/09 18:31	154241
1,1-Dichloroethene (1,1-DCE)	2.5 U	2.5	0.28	2.5	NA	5/19/09 18:31	
1,2,3-Trichlorobenzene	2.5 U	2.5	0.15	2.5	NA	5/19/09 18:31	154241
1,2,4-Trichlorobenzene	2.5 U	2.5	0.12	2.5	NA	5/19/09 18:31	154241
1,2-Dibromo-3-chloropropane (DBCP)	2.5 U UJ	2.5	0.63	2.5	NA	5/19/09 18:31	154241
1,2-Dibromoethane	2.5 U	2.5	0.33	2.5	NA	5/19/09 18:31	154241
1,2-Dichloroethane	2.5 U	2.5	0.43	2.5	NA	5/19/09 18:31	154241
1,2-Dichlorobenzene	2.5 U	2.5	0.20	2.5	NA	5/19/09 18:31	154241
1,2-Dichloropropane	2.5 U	2.5	0.25	2.5	NA	5/19/09 18:31	154241
1,3-Dichlorobenzene	2.5 U	2.5	0.16	2.5	NA	5/19/09 18:31	154241
1,4-Dichlorobenzene	2.5 U	2.5	0.19	2.5	NA	5/19/09 18:31	154241
2-Butanone (MEK)	13 U UJ	13	3.6	2.5	NA	5/19/09 18:31	154241
2-Hexanone	13 U	13	2.8	2.5	NA	5/19/09 18:31	154241
4-Methyl-2-pentanone	13 U	13	1.4	2.5	NA	5/19/09 18:31	154241
Acetone	3.6 J J	13	2.5	2.5	NA	5/19/09 18:31	154241
Benzene	2.5 U	2.5	0.15	2.5	NA	5/19/09 18:31	154241
Bromochloromethane	2.5 U	2.5	0.25	2.5	NA	5/19/09 18:31	154241
Bromodichloromethane	2.5 U	2.5	0.13	2.5	NA	5/19/09 18:31	154241
Bromoform	2.5 U	2.5	0.21	2.5	NA	5/19/09 18:31	154241
Bromomethane	2.5 U	2.5	1.1	2.5	NA	5/19/09 18:31	154241
Carbon Disulfide	2.5 U	2.5	0.50	2.5	NA	5/19/09 18:31	154241
Carbon Tetrachloride	32	2.5	0.19	2.5	NA	5/19/09 18:31	154241
Chlorobenzene	2.5 U	2.5	0.22	2.5	NA	5/19/09 18:31	154241
Chloroethane	2.5 U	2.5	0.24	2.5	NA	5/19/09 18:31	154241
Chloroform	5.4	2.5	0.30	2.5	NA	5/19/09 18:31	154241
Chloromethane	2.5 U	2.5	0.33	2.5	NA	5/19/09 18:31	154241
cis-1,2-Dichloroethene	2.5 U	2.5	0.25	2.5	NA	5/19/09 18:31	154241
cis-1,3-Dichloropropene	2.5 U	2.5	0.18	2.5	NA	5/19/09 18:31	154241
Dibromochloromethane	2.5 U	2.5	0.33	2.5	NA	5/19/09 18:31	154241
Ethylbenzene	2.5 U	2.5	0.15	2.5	NA	5/19/09 18:31	154241

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

MRFA INFLUENT

Sample Name: Lab Code:

R0902679-016

Service Request: R0902679 **Date Collected:** 5/13/09 0845

Date Received: 5/14/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysi Lot	s Note
Hexachlorobutadiene	2.5 U	2.5	0.30	2.5	NA	5/19/09 18:31		154241	
m,p-Xylenes	2.5 U	2.5	0.33	2.5	NA	5/19/09 18:31	l	154241	
Dichloromethane (Methylene Chloride)	2.5 U	2.5	0.28	2.5	NA	5/19/09 18:31	l	154241	
o-Xylene	2.5 U	2.5	0.19	2.5	NA	5/19/09 18:31		154241	
Styrene	2.5 U	2.5	0.14	2.5	NA	5/19/09 18:31		154241	
Tetrachloroethene (PCE)	2.5 U	2.5	0.21	2.5	NA	5/19/09 18:31	[	154241	
Toluene	2.5 U	2.5	0.13	2.5	NA	5/19/09 18:31		154241	
trans-1,2-Dichloroethene	2.5 U	2.5	0.23	2.5	NA	5/19/09 18:31	1	154241	
trans-1,3-Dichloropropene	2.5 U	2.5	0.20	2.5	NA	5/19/09 18:31	l	154241	
Trichloroethene (TCE)	50	2.5	0.20	2.5	NA	5/19/09 18:31		154241	
Trichlorofluoromethane (CFC 11)	2.5 U	2.5	0.30	2.5	NA	5/19/09 18:31		154241	
Vinyl Chloride	2.5 U	2.5	0.33	2.5	NA	5/19/09 18:31	[	154241	

Surrogate Name	%Re	Control cc Limits	Date Analyzed	Q	Note	
4-Bromofluorobenzene	93	80-120	5/19/09 18:31			

Comments	
----------	--

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

<b>EPA</b>	SA	MPL	E NO	)
------------	----	-----	------	---

Lab Name:	CAS/R	ОСН			Contract:	SHAV	٧	_ WIRF	AINFL	
Lab Code:	10145	Са	se No.:	R09-2679	SAS No	). <b>:</b>	s	DG No.: D	UPE-A	<b>.</b>
Matrix: (soil/v	vater)	WATER			Lal	o Samp	le ID:	R0902679	-016 2.	5_
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lal	File IC	):	W5646.D		
Level: (low/n	ned)	LOW	<del>-</del>		Da	te Rece	ived:	5/14/09		
% Moisture: r	not dec.				Da	te Analy	/zed:	5/19/09		
GC Column:	DB-VI	RX ID: 0.1	18 (m	nm)	Dilu	ution Fa	ctor:	2.5		
Soil Extract V	/olume:		(uL)		Soi	l Aliquo	t Volu	me:		(uL)
				CON	NCENTRAT	ION UN	NITS:			
Number TICs	found:	. 0	<del></del>	(ug/l	L or ug/Kg)	<u>UC</u>	G/L			
CAS NO.		COMPOU	ND NAI	ME		RT	ES	T. CONC.	Q	<u> </u>

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix: Sample Name:

Water

MRFA EFFLUENT

Lab Code:

R0902679-017

Service Request: R0902679

**Date Collected:** 5/13/09 0850

Date Received: 5/14/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot N
1,1,1-Trichloroethane (TCA)	1.0		1.0	0.081	1	NA	5/19/09 16:20	
1,1,2,2-Tetrachloroethane	1.0		1.0	0.15	1	NA	5/19/09 16:20	
1,1,2-Trichloroethane	1.0	U	1.0	0.12	1	NA	5/19/09 16:20	154241
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.12	1	NA	5/19/09 16:20	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.11	1	NA	5/19/09 16:20	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.060	1	NA	5/19/09 16:20	154241
1,2,4-Trichlorobenzene	1.0		1.0	0.048	1	NA	5/19/09 16:20	154241
1,2-Dibromo-3-chloropropane (DBCP)	1.0	uut	1.0	0.25	1	NA	5/19/09 16:20	154241
1,2-Dibromoethane	1.0	U	1.0	0.13	1	NA	5/19/09 16:20	154241
1,2-Dichloroethane	1.0	U	1.0	0.17	1	NA	5/19/09 16:20	154241
1,2-Dichlorobenzene	1.0	U	1.0	0.079	1	NA	5/19/09 16:20	154241
1,2-Dichloropropane	1.0	U	1.0	0.10	1	NA	5/19/09 16:20	154241
1,3-Dichlorobenzene	1.0	U	1.0	0.062	1	NA	5/19/09 16:20	154241
1,4-Dichlorobenzene	1.0	U	1.0	0.075	1	NA	5/19/09 16:20	154241
2-Butanone (MEK)	5.0	UUT	5.0	1.5	1	NA	5/19/09 16:20	154241
2-Hexanone	5.0	U	5.0	1.1	1	NA	5/19/09 16:20	
4-Methyl-2-pentanone	5.0	U	5.0	0.53	1	NA	5/19/09 16:20	
Acetone	5.0 1.4	<del>1</del> 45	5.0	0.97	1	NA	5/19/09 16:20	154241
Benzene	1.0		1.0	0.057	1	NA	5/19/09 16:20	
Bromochloromethane	1.0	U	1.0	0.10	1	NA	5/19/09 16:20	
Bromodichloromethane	1.0	U	1.0	0.050	1	NA	5/19/09 16:20	154241
Bromoform	1.0	U	1.0	0.083	1	NA	5/19/09 16:20	
Bromomethane	1.0	U	1.0	0.42	1	NA	5/19/09 16:20	
Carbon Disulfide	1.0	U	1.0	0.20	1	NA	5/19/09 16:20	154241
Carbon Tetrachloride	0.19	J	1.0	0.073	1	NA	5/19/09 16:20	154241
Chlorobenzene	1.0	U	1.0	0.087	1	NA	5/19/09 16:20	
Chloroethane	1.0	U	1.0	0.093	1	NA	5/19/09 16:20	154241
Chloroform	1.0	U	1.0	0.12	1	NA	5/19/09 16:20	
Chloromethane	1.0	U	1.0	0.13	1	NA	5/19/09 16:20	154241
cis-1,2-Dichloroethene	1.0	U	1.0	0.10	1	NA	5/19/09 16:20	154241
cis-1,3-Dichloropropene	1.0	U	1.0	0.069	1	NA	5/19/09 16:20	154241
Dibromochloromethane	1.0		1.0	0.13	1	NA	5/19/09 16:20	154241
Ethylbenzene	1.0		1.0	0.057	1	NA	5/19/09 16:20	

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code: MRFA EFFLUENT R0902679-017

MDEA EFFI HENT

Service Request: R0902679

**Date Collected:** 5/13/09 0850

Date Received: 5/14/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	•	s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/19/09 16:20	)	154241	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/19/09 16:20		154241	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/19/09 16:20	)	154241	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/19/09 16:20	)	154241	
Styrene	1.0 U	1.0	0.054	1	NA	5/19/09 16:20	)	154241	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/19/09 16:20	)	154241	
Toluene	1.0 U	1.0	0.049	1	NA	5/19/09 16:20	)	154241	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/19/09 16:20	1	154241	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/19/09 16:20	)	154241	
Trichloroethene (TCE)	0.27 J	1.0	0.077	1	NA	5/19/09 16:20		154241	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/19/09 16:20	)	154241	
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/19/09 16:20	l	154241	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note	
4-Bromofluorobenzene	97	80-120	5/19/09 16:20			

$\sim$			4
	กท		

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RC	ОСН			Contract:	SHAV	٧	MR	FA EFF	·L
Lab Code:	10145	Ca	se No.: F	R09-2679	SAS No	.:	SD	G No.:	DUPE-	·A
Matrix: (soil/w	vater)	WATER	<del></del>		Lal	Samp	ie ID: F	R090267	79-017	1.0
Sample wt/vo	ol:	25.0	(g/ml)	ML	Lai	File I	): <u>v</u>	V5642.[	<u> </u>	
Level: (low/m	ned)	LOW	_		Da	te Rece	eived: <u>5</u>	/14/09		-
% Moisture: r	not dec.	*****			Da	e Anal	yzed: 5	/19/09		
GC Column:	DB-VF	X ID: 0.	18_ (mn	n)	Dilu	ition Fa	actor: 1	.0		
Soil Extract V	olume:		_ (uL)		Soi	Aliquo	t Volume	ə:		(uL)
					CENTRAT					
Number TICs	found:	0	_	(ug/L	or ug/Kg)	<u> </u>	3/L	<del></del>		
CAS NO.		COMPOU	ND NAMI	E		RT	EST.	CONC	. (	Q.

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA Project #134815

Sample Matrix:

Water

Sample Name: Lab Code: TRIP BLANK R0902679-018 Service Request: R0902679

Date Collected: 5/13/09
Date Received: 5/14/09

Units: μg/L Basis: NA

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

Analytical Method: CLP-VOA OLC02.1

imaly licel 100 cold voil o					Dilution	Date	Date	Extraction Analysis
Analyte Name	Result	Q	MRL	MDL		Extracted		Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.081	i	NA	5/19/09 15:48	154241
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	1	NA	5/19/09 15:48	
1,1,2-Trichloroethane	1.0	U	1.0	0.12	1	NA	5/19/09 15:48	154241
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.12	1	NA	5/19/09 15:48	
1,1-Dichloroethene (1,1-DCE)	1.0		1.0	0.11	1	NA	5/19/09 15:48	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.060	1	NA	5/19/09 15:48	154241
1,2,4-Trichlorobenzene	1.0		1.0	0.048	1	NA	5/19/09 15:48	
1,2-Dibromo-3-chloropropane (DBCP)	1.0	UU	1.0	0.25	1	NA	5/19/09 15:48	
1,2-Dibromoethane	1.0	U	1.0	0.13	1	NA	5/19/09 15:48	154241
1,2-Dichloroethane	1.0	U	1.0	0.17	1	NA	5/19/09 15:48	
1,2-Dichlorobenzene	1.0	U	1.0	0.079	1	NA	5/19/09 15:48	
1,2-Dichloropropane	1.0	U	1.0	0.10	1	NA	5/19/09 15:48	154241
1,3-Dichlorobenzene	1.0	U	1.0	0.062	1	NA	5/19/09 15:48	
1,4-Dichlorobenzene	1.0	U	1.0	0.075	1	NA	5/19/09 15:48	
2-Butanone (MEK)	5.0	UUJ	5.0	1.5	1	NA	5/19/09 15:48	154241
2-Hexanone	5.0	U	5.0	1.1	1	NA	5/19/09 15:48	
4-Methyl-2-pentanone	5.0		5.0	0.53	1	NA	5/19/09 15:48	
Acetone	5.0	UWI	5.0	0.97	1	NA	5/19/09 15:48	154241
Benzene	1.0	U	1.0	0.057	1	NA	5/19/09 15:48	
Bromochloromethane	1.0	U	1.0	0.10	1	NA	5/19/09 15:48	
Bromodichloromethane	1.0	U	1.0	0.050	1	NA	5/19/09 15:48	154241
Bromoform	1.0	U	1.0	0.083	1	NA	5/19/09 15:48	154241
Bromomethane	1.0	U.	1.0	0.42	1	NA	5/19/09 15:48	154241
Carbon Disulfide	1.0	U	1.0	0.20	1	NA	5/19/09 15:48	154241
Carbon Tetrachloride	1.0	U	1.0	0.073	1	NA	5/19/09 15:48	
Chlorobenzene	1.0	U	1.0	0.087	1	NA	5/19/09 15:48	154241
Chloroethane	1.0	U	1.0	0.093	1	NA	5/19/09 15:48	154241
Chloroform	1.0	U	1.0	0.12	1	NA	5/19/09 15:48	
Chloromethane	1.0	U	1.0	0.13	1	NA	5/19/09 15:48	
cis-1,2-Dichloroethene	1.0	U	1.0	0.10	1	NA	5/19/09 15:48	154241
cis-1,3-Dichloropropene	1.0	U	1.0	0.069	1	NA	5/19/09 15:48	154241
Dibromochloromethane	1.0	U	1.0	0.13	1	NA	5/19/09 15:48	154241
Ethylbenzene	1.0		1.0	0.057	1	NA	5/19/09 15:48	154241

Comments:

Printed 6/4/09 9:11

\\inflow2\starlims\LimsReps\AnalyticalReport.rpt

Form 1A

SuperSet Reference:

09-0000103423 rev 00

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project: Sample Matrix: GE MRFA Project #134815

Sample Name:

Lab Code:

Water

TRIP BLANK

R0902679-018

Service Request: R0902679

Date Collected: 5/13/09 Date Received: 5/14/09

> 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	Dilution Factor	Date Extracted	Date Analyzed	Extraction A	-	s Note
Hexachlorobutadiene	1.0 U	1.0	0.12	1	NA	5/19/09 15:48	3	154241	
m,p-Xylenes	1.0 U	1.0	0.13	1	NA	5/19/09 15:48	3	154241	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.11	1	NA	5/19/09 15:48	3	154241	
o-Xylene	1.0 U	1.0	0.075	1	NA	5/19/09 15:48	3	154241	
Styrene	1.0 U	1.0	0.054	1	NA	5/19/09 15:48	3	154241	
Tetrachloroethene (PCE)	1.0 U	1.0	0.083	1	NA	5/19/09 15:48	3	154241	
Toluene	1.0 U	1.0	0.049	1	NA	5/19/09 15:48	3	154241	
trans-1,2-Dichloroethene	1.0 U	1.0	0.092	1	NA	5/19/09 15:48	3	154241	
trans-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/19/09 15:48	3	154241	
Trichloroethene (TCE)	1.0 U	1.0	0.077	1	NA	5/19/09 15:48	3	154241	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	1	NA	5/19/09 15:48	3	154241	
Vinyl Chloride	1.0 U	1.0	0.13	1	NA	5/19/09 15:48	3	154241	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note	
4-Bromofluorobenzene	93	80-120	5/19/09 15:48			

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	CAS/RO	OCH			Contract:	SHAV	/	IRIPB	LANK
Lab Code:	10145	Ca	ase No.: <u>R</u> 0	9-2679	SAS No	.:	s	DG No.: DL	JPE-A
Matrix: (soil/v	vater)	WATER			Lat	Samp	le ID:	R0902679-0	)18 1.0
Sample wt/vo	ol:	25.0	_ (g/ml) <u>M</u>	IL	Lat	File IC	);	W5641.D	
Level: (low/n	ned)	LOW	_		Dat	e Rece	ived:	5/14/09	
% Moisture: r	not dec.				Dat	e Analy	zed:	5/19/09	
GC Column:	DB-VF	<u> </u>	.18 (mm)	)	Dilu	ition Fa	ctor:	1.0	<u>.</u>
Soil Extract V	olume:		_ (uL)		Soil	Aliquo	t Volui	me:	(uL)
				CON	CENTRAT	ION UN	IITS:		
Number TiCs	found:	0		(ug/L	or ug/Kg)	UG	6/L		
CAS NO.		COMPOL	JND NAME			RT	ES [°]	T. CONC.	Q

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA

Sample Matrix:

Water

Sample Name: Lab Code: 4D

R0903008-001

Service Request: R0903008

**Date Collected:** 5/28/09 1510 **Date Received:** 5/29/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot	
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.14	1	NA	6/8/09 14:51	156694	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.12	1	NA	6/8/09 14:51	156694	
1,1,2-Trichloroethane	1.0 U	1.0	0.11	1	NA	6/8/09 14:51	156694	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.11	1	NA	6/8/09 14:51	156694	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	1	NA	6/8/09 14:51	156694	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.18	1	NA	6/8/09 14:51	156694	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.13	1	NA	6/8/09 14:51	156694	
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U (	UJ 1.0	0.34	1	NA	6/8/09 14:51	156694	
1,2-Dibromoethane	1.0 U	1.0	0.14	1	NA	6/8/09 14:51	156694	
1,2-Dichloroethane	1.0 U	1.0	0.057	1	NA	6/8/09 14:51	156694	
1,2-Dichlorobenzene	1.0 U	1.0	0.090	1	NA	6/8/09 14:51	156694	
1,2-Dichloropropane	1.0 U	1.0	0.15	1	NA	6/8/09 14:51	156694	
1,3-Dichlorobenzene	1.0 U	1.0	0.092	1	NA	6/8/09 14:51	156694	
1,4-Dichlorobenzene	1.0 U	1.0	0.085	1	NA	6/8/09 14:51	156694	
2-Butanone (MEK)	5.0 U	UJ 5.0	0.75	1	NA	6/8/09 14:51	156694	
2-Hexanone	5.0 U	5.0	0.51	1	NA	6/8/09 14:51	156694	
4-Methyl-2-pentanone	5.0 U	5.0	0.56	1	NA	6/8/09 14:51	156694	
Acetone	5.0 0.87 1	UJ 5.0	0.70	1	NA	6/8/09 14:51	156694	
Benzene	1.0 U	1.0	0.098	1	NA	6/8/09 14:51	156694	
Bromochloromethane	1.0 U	1.0	0.18	1	NA	6/8/09 14:51	156694	
Bromodichloromethane	1.0 U	1.0	0.15	1	NA	6/8/09 14:51	156694	
Bromoform	1.0 U	1.0	0.14	1	NA	6/8/09 14:51	156694	
Bromomethane	1.0 U	1.0	0.12	1	NA	6/8/09 14:51	156694	
Carbon Disulfide	1.0 U	1.0	0.16	1	NA	6/8/09 14:51	156694	
Carbon Tetrachloride	1.0 U	1.0	0.12	1	NA	6/8/09 14:51	156694	
Chlorobenzene	1.0 U	1.0	0.14	1	NA	6/8/09 14:51	156694	
Chloroethane	1.0 U	1.0	0.21	1	NA	6/8/09 14:51	156694	
Chloroform	1.0 U	1.0	0.15	l	NA	6/8/09 14:51	156694	-
Chloromethane	1.0 U	1.0	0.12	1	NA	6/8/09 14:51	156694	
cis-1,2-Dichloroethene	1.0 U	1.0	0.11	1	NA	6/8/09 14:51	156694	
cis-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	5/8/09 14:51	156694	
Dibromochloromethane	1.0 U	1.0	0.13	1	NA	5/8/09 14:51	156694	
Ethylbenzene	1.0 U	1.0	0.13	1	NA (	5/8/09 14:51	156694	

Comments:

Printed 6/17/09 7:52

\\inflow2\starlims\LimsReps\AnalyticalReport.rpt

Form 1A

SuperSet Reference:

09-0000107662 rev 00

# COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA

Sample Matrix:

Water

Sample Name: Lab Code: 4D

R0903008-001

Service Request: R0903008

**Date Collected:** 5/28/09 1510

Date Received: 5/29/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot N	lote
Hexachlorobutadiene	1.0 U	1.0	0.18	1	NA	6/8/09 14:51	156694	
m,p-Xylenes	1.0 U	1.0	0.22	1	NA	6/8/09 14:51	156694	
Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.16	1	NA	6/8/09 14:51	156694	
o-Xylene	1.0 U	1.0	0.11	1	NA	6/8/09 14:51	156694	
Styrene	1.0 U	1.0	0.096	1	NA	6/8/09 14:51	156694	
Tetrachloroethene (PCE)	1.0 U	1.0	0.15	- 1	NA	6/8/09 14:51	156694	
Toluene	1.0 U	1.0	0.098	1	NA	6/8/09 14:51	156694	
trans-1,2-Dichloroethene	1.0 U	1.0	0.16	1	NA	6/8/09 14:51	156694	
trans-1,3-Dichloropropene	1.0 U	1.0	0.060	1	NA	6/8/09 14:51	156694	
Trichloroethene (TCE)	1.0 U	1.0	0.16	1	NA	6/8/09 14:51	156694	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.18	1	NA	6/8/09 14:51	156694	
Vinyl Chloride	1.0 U	1.0	0.14	1	NA	6/8/09 14:51	156694	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note	
4-Bromofluorobenzene	97	80-120	6/8/09 14:51		· · · · · · · · · · · · · · · · · · ·	

# 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

<b>EPA</b>	SAMP	LE NO
------------	------	-------

				1	
Lab Name: CAS/I	ROCH	Contract:	SHAW	4D	
Lab Code: 10145	Case No.: R	9-3008 SAS No.	.: 8	DG No.: 4D	
Matrix: (soil/water)	WATER	Lab	Sample ID:	R0903008-001 1	.0
Sample wt/vol;	25.0 (g/ml) M	LLab	File ID:	W5912.D	
Level: (low/med)	LOW	Date	e Received:	5/29/09	
% Moisture: not dec	•	Date	e Analyzed:	6/8/09	
GC Column: DB-\	/RX ID: <u>0.18</u> (mm)	Dilu	tion Factor:	1.0	
Soil Extract Volume:	(uL)	Soil	Aliquot Volu	me:	(uL)
Number TICs found:	. 0	CONCENTRATI (ug/L or ug/Kg)	ON UNITS: UG/L	· 	
CAS NO.	COMPOUND NAME		RT ES	T. CONC.	)

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

Lab Code:

GE MRFA

Sample Matrix: Sample Name: Water

Trip Blank

R0903008-002

Service Request: R0903008

Date Collected: 5/28/09
Date Received: 5/29/09

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	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot Note
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.14	1	NA	6/8/09 15:21	156694
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.12	1	NA	6/8/09 15:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.11	1	NA	6/8/09 15:21	156694
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.11	1	NA	6/8/09 15:21	156694
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	1	NA	6/8/09 15:21	156694
1,2,3-Trichlorobenzene	1.0 U	1.0	0.18	1	NA	6/8/09 15:21	156694
1,2,4-Trichlorobenzene	1.0 U	1.0	0.13	1	NA	6/8/09 15:21	156694
1,2-Dibromo-3-chloropropane (DBCP)	1.0 U U	1.0	0.34	1	NA	6/8/09 15:21	156694
1,2-Dibromoethane	1.0 U	1.0	0.14	1	NA	6/8/09 15:21	156694
1,2-Dichloroethane	1.0 U	1.0	0.057	1	NA	6/8/09 15:21	156694
1,2-Dichlorobenzene	1.0 U	1.0	0.090	1	NA	6/8/09 15:21	156694
1,2-Dichloropropane	1.0 U	1.0	0.15	1	NA	6/8/09 15:21	156694
1,3-Dichlorobenzene	1.0 U	1.0	0.092	1	NA	6/8/09 15:21	156694
1,4-Dichlorobenzene	1.0 U	1.0	0.085	1	NA	6/8/09 15:21	156694
2-Butanone (MEK)	5.0 U <b>UJ</b>	5.0	0.75	1	NA	6/8/09 15:21	156694
2-Hexanone	5.0 U	5.0	0.51	1	NA	6/8/09 15:21	156694
4-Methyl-2-pentanone	5.0 U	5.0	0.56	1	NA	6/8/09 15:21	156694
Acetone	3.2 J J	5.0	0.70	1	NA	6/8/09 15:21	156694
Benzene	1.0 U	1.0	0.098	1	NA	6/8/09 15:21	156694
Bromochloromethane	1.0 U	1.0	0.18	1	NA	6/8/09 15:21	156694
Bromodichloromethane	1.0 U	1.0	0.15	1	NA	6/8/09 15:21	156694
Bromoform	1.0 U	1.0	0.14	1	NA	6/8/09 15:21	156694
Bromomethane	1.0 U	1.0	0.12	1	NA	6/8/09 15:21	156694
Carbon Disulfide	1.0 U	1.0	0.16	1	NA	6/8/09 15:21	156694
Carbon Tetrachloride	1.0 U	1.0	0.12	1	NA	6/8/09 15:21	156694
Chlorobenzene	1.0 U	1.0	0.14	1	NA	6/8/09 15:21	156694
Chloroethane	1.0 U	1.0	0.21	1	NA	6/8/09 15:21	156694
Chloroform	1.0 U	1.0	0.15	1		6/8/09 15:21	156694
Chloromethane	1.0 U	1.0	0.12	1		6/8/09 15:21	156694
cis-1,2-Dichloroethene	1.0 U	1.0	0.11	1	NA	6/8/09 15:21	156694
cis-1,3-Dichloropropene	1.0 U	1.0	0.079	1	NA	6/8/09 15:21	156694
Dibromochloromethane	1.0 U	1.0	0.13	1		6/8/09 15:21	156694
Ethylbenzene	1.0 U	1.0	0.13	1	NA	6/8/09 15:21	156694

Comments:

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:

Shaw Environmental & Infrastructure, Inc.

Project:

GE MRFA

Sample Matrix:

Service Request: R0903008

Date Received: 5/29/09

Date Collected: 5/28/09

Water

Units: µg/L Basis: NA

Sample Name: Lab Code:

Trip Blank R0903008-002

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis Lot Lot I	Note
Hexachlorobutadiene	1.0 U	1.0	0.18	1	NA	6/8/09 15:21	156694	====
m,p-Xylenes	1.0 U	1.0	0.22	ī	NA	6/8/09 15:21		
Dichloromethane (Methylene Chloride)	<b>0.41</b> J	1.0	0.16	1	NA	6/8/09 15:21	156694	
o-Xylene	1.0 U	1.0	0.11	1	NA	6/8/09 15:21	156694	
Styrene	1.0 U	1.0	0.096	1	NA	6/8/09 15:21	156694	
Tetrachloroethene (PCE)	1.0 U	1.0	0.15	1	NA	6/8/09 15:21	156694	
Toluene	1.0 U	1.0	0.098	1	NA	6/8/09 15:21	156694	
trans-1,2-Dichloroethene	1.0 U	1.0	0.16	1	NA	6/8/09 15:21	156694	
trans-1,3-Dichloropropene	1.0 U	1.0	0.060	1	NA	6/8/09 15:21	156694	
Trichloroethene (TCE)	1.0 U	1.0	0.16	1	NA	6/8/09 15:21	156694	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.18	1	NA	6/8/09 15:21	156694	
Vinyl Chloride	1.0 U	1.0	0.14	1	NA	6/8/09 15:21	156694	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note					
4-Bromofluorobenzene	95	80-120	6/8/09 15:21				 <u> </u>			

Comments:		

# 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name:	CAS/RC	CH			Contract:	SHAV	٧	IRIP BL	ANK
Lab Code:	10145		Case No.:	R09-3008	SAS No	.:	S	DG No.: 4D	
Matrix: (soil/w	/ater)	WATE	₹		Lat	Samp	le ID:	R0903008-00	)2 1.0
Sample wt/vo	<b>l</b> :	25.0	(g/ml)	ML	Lab	File II	<b>)</b> :	W5913.D	
Level: (low/m	ned)	LOW			Dat	e Rece	eived:	5/29/09	
% Moisture: n	ot dec.				Dat	e Anal	yzed:	6/8/09	
GC Column:	DB-VR	X ID:	<u>0.18</u> (r	nm)	Dilu	tion Fa	ctor:	1.0	
Soil Extract V	olume:		(uL)		Soil	Aliquo	t Volu	me:	(uL)
				CON	CENTRATI	ON UN	NTS:		
Number TICs	found:	0		(ug/L	or ug/Kg)	UC	9/L		
CAS NO.		COMP	OUND NAI	ME		RT	ES	T. CONC.	Q

# APPENDIX C DATA VALIDATION REPORTS

# **Data Validation Services**

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

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

June 29, 2009

Marc Flanagan Shaw Environmental 13 British American Blvd. Latham, NY 12110

RE: Validation of MRFA Malta Site Data Packages

CAS Sub Nos. R0900833, R0902679, and R0903008

Dear Mr. Flanagan:

Review has been completed for the data packages generated by Columbia Analytical Services (CAS), pertaining to aqueous samples collected 02/13/09 through 05/28/09 at the MRFA Malta Site. Nineteen samples (including three field duplicates), cooler blanks, and trip blanks were processed for site-specific low level volatiles. Two of these samples and a field duplicate were also analyzed for total and hexavalent chromium. Methodologies utilized are those of the USEPA OLC02.1, EPA CLP ILM and SW846 7196.

Data validation was performed with guidance from the most current editions of 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 as reported, or usable with minor qualification of some of the volatile results as estimated, or with edit to non-detection. These are discussed in the following analytical sections.

Copies of laboratory identification summaries and case narratives are attached to this narrative, and should be reviewed in conjunction with this text. Data summary packages are also submitted with qualifiers applied in red ink to report forms.

# **Chain-of-Custody**

A down-arrow was missing from the matrix entry on the custody form associated with samples collected 05/12/09.

The laboratory receipt date entry for samples collected 5/28/09 does not show the year.

#### **Low Level Volatile Analyses**

The results for analytes initially flagged as "E" by the laboratory are to be derived from the dilution analyses of the samples.

The detected results for acetone in 4D, MRFA-Effluent, and DUPEA are edited to reflect non-detection due to very poor mass spectral quality.

Matrix spikes (MS and MSD) of MRFA-Influent (05/09), MRFA-Influent (02/09), M-27D, and 4D show acceptable accuracy and precision for the twelve analytes evaluated.

Volatile blind field duplicate correlations for MRFA-Effluent (02/09), 13D, M-24DR, and Effluent (05/09) are well within validation guidelines.

Acetone and 1,2-dibromo-3-chloropropane exhibit low relative response factors (RRFs) (inherent with the methodology) in all of the project calibration standards. 2-Butanone also shows low RRFs in the calibration standards associated with the May 2009 analyses. 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 should be considered estimated ("UJ" or "J" qualifiers), possibly biased low.

Some 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.

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

### **Total Chromium Analyses**

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

The serial dilution evaluation of M-27D 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 M-27D, and show recovery and duplicate correlation within recommended limits.

The field duplicate correlation for 13D was also 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 QUALIFIER DEFINITIONS

# DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- N The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."
- NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- The analyte was not detected above the reported sample quantitation limit.

  However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

# CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

# CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: MRFA-INFLUENT

Submission: R0900833

Batch Complete:

Date Revised:

Diskette Requested: No

Date Due: 3/10/09

Client:

Shaw Environmental & Infrastruct

Date: 2/17/09

Protocol: CLP

Client Rep: JJAEGER

Custody Seal: Present/Absent:

Shipping No.:

Project:

GE MRFA Project #134815

Chain of Custody: Present/Absent:

CAS Job#	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R0900833-001QC	MRFA-INFLUENT	Water	CLP-VOA OLC02.1	2/13/09	2/17/09			
R0900833-002	DIRFA-DUPE A	Water	CLP-VOA OLC02.1	2/13/09	2/17/09			
R0900833-003	MRFA-EFFLUENT	Water	CLP-VOA OLC02.1	2/13/09	2/17/09			
R0900833-004	TRIP BLANK	Water	CLP-VOA OLC02.1	2/13/09	2/17/09			

# CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: DWEA

Submission: R0902679
Client: Shaw Envi

R0902679
Shaw Environmental & Infrastruct

Client Rep: JJAEGER

Project: GE MRFA Project #134815

Batch Complete:

Diskette Requested: No

Date: 5/18/09

Custody Seal: Present/Absent: Chain of Custody: Present/Absent:

Date Revised:

Date Due: 6/4/09 Protocol: SW846

Shipping No.:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date	Date	pН	%	Remarks
R0902679-001	DUPE A	Water	71064 CLD METALO ILMOS O	Sampled	Received	(Solids)	Solids	Sample Condition
	1	VValci	7196A, CLP-METALS ILM05.3,	5/12/09	5/13/09			
R0902679-002	13D	10/-1	CLP-VOA OLC02.1		·			
	1.00	Water	7196A, CLP-METALS ILM05.3,	5/12/09	5/13/09			
0902679-004QC	M-27D		CLP-VOA OLC02.1					
0002070-00400	101-270	Water	7196A, CLP-METALS ILM05.3.	5/12/09	5/13/09			·
R0902679-005			CLP-VOA OLC02.1		5. 15,55			
	DGC-3S	Water	CLP-VOA OLC02.1	5/12/09	5/13/09			· · · · · · · · · · · · · · · · · · ·
R0902679-006	DGC-4S	Water	CLP-VOA OLC02.1	5/12/09				
R0902679-007	M-25D	Water	CLP-VOA OLC02.1		5/13/09			
R0902679-008	M-11D	Water	CLP-VOA OLC02.1	5/12/09	5/13/09			
R0902679-009	M-29D	Water		5/12/09	5/13/09			
R0902679-010	14D	Water	CLP-VOA OLC02.1	5/12/09	5/13/09			
R0902679-011	Cooler Blank	Water	CLP-VOA OLC02.1	5/12/09	5/13/09			
R0902679-012	TRIP BLANK	Water	CLP-VOA OLC02.1	5/13/09	5/13/09			
R0902679-013	DUPE B		CLP-VOA OLC02.1	5/12/09	5/13/09			
R0902679-014	DUPE C	Water	CLP-VOA OLC02.1	5/13/09	5/14/09			
R0902679-015	M-24 DR	Water	CLP-VOA OLC02.1	5/13/09	5/14/09			
0902679-016QC		Water .	CLP-VOA OLC02.1	5/13/09	5/14/09			
R0902679-017		Water	CLP-VOA OLC02.1	5/13/09	5/14/09			
R0902679-017	MRFA EFFLÜENT	Water	CLP-VOA OLC02.1	5/13/09	5/14/09		·	
170902019-016	TRIP BLANK	Water	CLP-VOA OLC02.1	5/13/09	5/14/09			

00000

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

# CAS ASP/CLP Batching Form/Login Sheet

Client Proj #:

Submission: R0903008

Batch Complete:

Yes

Date Revised:

Diskette Requested: No

Date Due: 6/19/09

Client:

Shaw Environmental & Infrastruct

Date: 5/29/09

Protocol: CLP

Client Rep: JJAEGER Project: **GE MRFA**  Custody Seal: Present/Absent:

Shipping No.:

Chain of Custody: Present/Absent:

CAS Job#	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R0903008-001	4D	Water	CLP-VOA OLC02.1	5/28/09	5/29/09			· · · · · · · · · · · · · · · · · · ·
R0903008-002	Trip Blank	Water	CLP-VOA OLC02.1	5/28/09	5/29/09			
R0903008-003	Cooler Blank	Water	CLP-VOA OLC02.1	5/28/09	5/29/09			

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

## **CASE NARRATIVE**

COMPANY: Shaw Environmental GE MRFA Project #134815 SUBMISSION #: R0900833

Shaw samples were collected on 02/13/09 and received at CAS on 02/14/09 in good condition.

# **VOLATILE ORGANICS**

Four 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 MRFA Influent. All MS/MSD recoveries were within limits. All Reference spike recoveries were within limits. All RPD's were within limits.

Various compounds for MRFA Influent have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

The Laboratory blanks associated with these samples were free of contamination.

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.

#### CASE NARRATIVE

COMPANY: Shaw Environmental GE MRFA Project #134815 SUBMISSION #: R0902679

Shaw samples were collected on 05/12-13/09 and received at CAS on 05/13-14/09 in good condition.

### **INORGANICS**

Three water samples were analyzed for Total Chromium and Hexavalent Chromium. Please see attached data pages for method numbers.

Site specific QC was performed on M-27D. All MS and Blank spike recoveries were within limits. All RPD's were within limits.

No analytical or QC problems were encountered.

# **VOLATILE ORGANICS**

Seventeen 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 MRFA Influent and M-27D. All MS/MSD recoveries were within limits. All Reference spike recoveries were within limits. All RPD's were within limits.

Various compounds for DUPE B and M-24 DR have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

The Laboratory blanks associated with these samples were free of contamination.

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.

#### CASE NARRATIVE

COMPANY: Shaw Environmental GE MRFA Project #134815 SERVICE REQUEST #: R0903008

Shaw samples were collected on 05/28/09 and received at CAS on 05/29/09 in good condition.

## **VOLATILE ORGANICS**

Two 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 not requested for these samples, however was performed on 4D. All MS/MSD recoveries were within limits. All Reference spike recoveries were within limits. All RPD's were within limits.

The Laboratory blanks associated with these samples were free of contamination.

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.

# APPENDIX D AIR STRIPPER FLOW DATA

Date			Well #2	Well #1	Well #2	Well #1	Total Daily
1/1/2009	Date		Flow	Flow	Average	Average	Average Flow
1/1/2009			(gal)	(gal)	(qpm)	(qpm)	(gpm)
11/3/2009	1/1/2009	Total					
11/4/2009	1/2/2009	Total	170	0	0.12	0.00	0.12
11/4/2009	1/3/2009	Total	0	0	0.00	0.00	0.00
1/6/2009   Total   1,070   0   0.74   0.00   0.74     1/7/2009   Total   860   0   0.60   0.00   0.60     1/8/2009   Total   840   0   0.58   0.00   0.58     1/9/2009   Total   960   0   0.67   0.00   0.67     1/10/2009   Total   1,110   0   0.77   0.00   0.67     1/10/2009   Total   880   0   0.61   0.00   0.61     1/11/2009   Total   990   0   0.69   0.00   0.69     1/13/2009   Total   1,050   0   0.73   0.00   0.73     1/14/2009   Total   1,050   0   0.73   0.00   0.73     1/14/2009   Total   1,050   0   0.73   0.00   0.73     1/14/2009   Total   1,050   0   0.73   0.00   0.73     1/15/2009   Total   1,010   0   0.70   0.00   0.53     1/16/2009   Total   1,010   0   0.70   0.00   0.70     1/17/2009   Total   1,120   0   0.78   0.00   0.78     1/18/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   1,060   0   0.65   0.00   0.65     1/20/2009   Total   1,060   0   0.75   0.00   0.74     1/21/2009   Total   1,080   0   0.75   0.00   0.74     1/23/2009   Total   1,080   0   0.75   0.00   0.75     1/23/2009   Total   1,080   0   0.67   0.00   0.67     1/24/2009   Total   1,080   0   0.75   0.00   0.75     1/23/2009   Total   970   0   0.67   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.63     1/28/2009   Total   970   0   0.67   0.00   0.63     1/28/2009   Total   970   0   0.67   0.00   0.63     1/28/2009   Total   970   0   0.67   0.00   0.67     1/29/2009   Total   970   0   0.67   0.00   0.68     1/29/2009   Total   970   0   0.67   0.00   0.67     1/29/2009   Total   970   0   0.67   0.00   0.67     1/29/2009   Total   970   0   0.67   0.00   0.68     1/30/2009   Total   980   0   0.68   0.00   0.68     1/30/2009   Total   980   0   0.68   0.00   0.68     1/30/2009   Total   990   0   0.69   0.00   0.69     2/14/2009   Total   900   0   0.69   0.00   0.69     2/14/2009   Total   960   0   0.69   0.00   0.69		Total	2,670	0		0.00	1.85
1/6/2009   Total   1,070   0   0.74   0.00   0.74     1/7/2009   Total   860   0   0.60   0.00   0.60     1/8/2009   Total   840   0   0.58   0.00   0.58     1/9/2009   Total   960   0   0.67   0.00   0.67     1/10/2009   Total   1,110   0   0.77   0.00   0.67     1/10/2009   Total   880   0   0.61   0.00   0.61     1/11/2009   Total   990   0   0.69   0.00   0.69     1/13/2009   Total   1,050   0   0.73   0.00   0.73     1/14/2009   Total   1,010   0   0.70   0.00   0.53     1/16/2009   Total   1,010   0   0.70   0.00   0.70     1/17/2009   Total   1,120   0   0.78   0.00   0.78     1/18/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   380   0   0.61   0.00   0.65     1/20/2009   Total   1,080   0   0.75   0.00   0.74     1/21/2009   Total   1,080   0   0.75   0.00   0.75     1/23/2009   Total   1,080   0   0.75   0.00   0.75     1/24/2009   Total   1,080   0   0.67   0.00   0.67     1/24/2009   Total   1,080   0   0.75   0.00   0.75     1/24/2009   Total   1,080   0   0.75   0.00   0.67     1/24/2009   Total   1,050   0   0.73   0.00   0.73     1/28/2009   Total   1,050   0   0.73   0.00   0.73     1/28/2009   Total   970   0   0.67   0.00   0.67     1/28/2009   Total   1,110   0   0.77   0.00   0.77     1/29/2009   Total   1,160   0   0.63   0.00   0.63     1/28/2009   Total   1,160   0   0.77   0.00   0.77     1/29/2009   Total   1,160   0   0.63   0.00   0.68     1/29/2009   Total   1,160   0   0.66   0.00   0.67     1/24/2009   Total   1,160   0   0.67   0.00   0.67     1/24/2009   Total   1,160   0   0.68   0.00   0.68     1/30/2009   Total   1,160	1/5/2009	Total	870	0	0.60	0.00	0.60
1/8/2009		Total	1,070	0	0.74	0.00	0.74
1/9/2009	1/7/2009	Total	860	0	0.60	0.00	0.60
1/9/2009   Total   960	1/8/2009	Total	840	0	0.58	0.00	0.58
1/11/2009   Total   880		Total	960	0	0.67	0.00	0.67
1/11/2009   Total   880   0   0.61   0.00   0.61     1/12/2009   Total   990   0   0.69   0.00   0.69     1/13/2009   Total   1,050   0   0.73   0.00   0.73     1/14/2009   Total   1,050   0   0.73   0.00   0.73     1/14/2009   Total   1,050   0   0.73   0.00   0.73     1/15/2009   Total   1,010   0   0.53   0.00   0.53     1/16/2009   Total   1,010   0   0.70   0.00   0.70     1/17/2009   Total   1,120   0   0.78   0.00   0.78     1/18/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   940   0   0.65   0.00   0.65     1/20/2009   Total   880   0   0.61   0.00   0.61     1/21/2009   Total   1,060   0   0.74   0.00   0.74     1/22/2009   Total   1,080   0   0.75   0.00   0.75     1/23/2009   Total   970   0   0.67   0.00   0.67     1/24/2009   Total   910   0   0.63   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.63     1/25/2009   Total   1,050   0   0.73   0.00   0.73     1/27/2009   Total   1,050   0   0.73   0.00   0.77     1/29/2009   Total   1,050   0   0.73   0.00   0.77     1/29/2009   Total   1,110   0   0.77   0.00   0.77     1/29/2009   Total   1,160   0   0.63   0.00   0.63     1/25/2009   Total   1,160   0   0.63   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.77     1/29/2009   Total   990   0   0.63   0.00   0.63     1/28/2009   Total   1,160   0   0.77   0.00   0.77     1/29/2009   Total   990   0   0.68   0.00   0.68     1/30/2009   Total   990   0   0.67   0.00   0.67     2/1/2009   Total   990   0   0.66   0.00   0.66     2/2/2009   Total   990   0   0.67   0.00   0.67     2/1/2009   Total   990   0   0.67   0.00   0.67     2/1/2009   Total   990   0   0.67   0.00   0.67     2/1/2009   Total   990   0   0.68   0.00   0.68     2/3/2009   Total   990   0   0.67   0.00   0.67     2/1/2009   Total   900   0   0.67   0.00   0.67     2/1/2009   Total   900   0   0.68   0.00   0.68     2/1/2009   Total   900   0   0.68   0.00   0.68     2/1/2009   Total   900   0   0.68   0.00   0.67     2/1/20		Total	1,110	0	0.77	0.00	0.77
1/12/2009   Total   990		Total	880	0	0.61	0.00	0.61
1/13/2009   Total   1,050   0   0.73   0.00   0.73   1/14/2009   Total   1,050   0   0.73   0.00   0.73   1/15/2009   Total   760   0   0.53   0.00   0.53   1/16/2009   Total   1,010   0   0.70   0.00   0.70   1/17/2009   Total   1,120   0   0.78   0.00   0.70   1/17/2009   Total   1,120   0   0.78   0.00   0.78   1/18/2009   Total   1,010   0   0.70   0.00   0.70   1/19/2009   Total   940   0   0.65   0.00   0.65   1/20/2009   Total   880   0   0.61   0.00   0.65   1/20/2009   Total   1,060   0   0.74   0.00   0.74   1/22/2009   Total   1,080   0   0.75   0.00   0.75   1/23/2009   Total   970   0   0.67   0.00   0.67   1/24/2009   Total   970   0   0.63   0.00   0.63   1/26/2009   Total   970   0   0.67   0.00   0.67   1/24/2009   Total   970   0   0.67   0.00   0.67   1/24/2009   Total   970   0   0.63   0.00   0.63   1/25/2009   Total   970   0   0.67   0.00   0.67   1/26/2009   Total   970   0   0.67   0.00   0.67   1/26/2009   Total   970   0   0.67   0.00   0.67   1/26/2009   Total   1,050   0   0.73   0.00   0.63   1/28/2009   Total   1,110   0   0.77   0.00   0.73   1/27/2009   Total   1,110   0   0.77   0.00   0.63   1/28/2009   Total   1,160   0   0.63   0.00   0.63   1/29/2009   Total   1,160   0   0.81   0.00   0.66   1/30/2009   Total   970   0   0.67   0.00   0.67   2/1/2009   Total   980   0   0.67   0.00   0.67   2/1/2009   Total   980   0   0.67   0.00   0.67   0.00   0.67   2/1/2009   Total   980   0   0.68   0.00   0.68   2/3/2009   Total   980   0   0.68   0.00   0.68   2/3/2009   Total   990   0   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.00   0.67   0.0		Total	990	0			
1/14/2009   Total   1,050   0   0.73   0.00   0.73     1/15/2009   Total   760   0   0.53   0.00   0.53     1/16/2009   Total   1,010   0   0.70   0.00   0.70     1/17/2009   Total   1,120   0   0.78   0.00   0.78     1/18/2009   Total   1,010   0   0.70   0.00   0.78     1/18/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   940   0   0.65   0.00   0.65     1/20/2009   Total   880   0   0.61   0.00   0.61     1/21/2009   Total   1,060   0   0.74   0.00   0.74     1/22/2009   Total   1,080   0   0.75   0.00   0.74     1/23/2009   Total   1,080   0   0.67   0.00   0.67     1/24/2009   Total   970   0   0.67   0.00   0.67     1/26/2009   Total   910   0   0.63   0.00   0.63     1/25/2009   Total   1,050   0   0.73   0.00   0.67     1/26/2009   Total   1,050   0   0.73   0.00   0.67     1/28/2009   Total   1,050   0   0.77   0.00   0.63     1/28/2009   Total   1,110   0   0.77   0.00   0.77     1/28/2009   Total   1,110   0   0.56   0.00   0.56     1/30/2009   Total   1,160   0   0.81   0.00   0.81     1/31/2009   Total   970   0   0.67   0.00   0.67     2/1/2009   Total   920   0   0.64   0.00   0.67     2/1/2009   Total   920   0   0.64   0.00   0.68     2/3/2009   Total   990   0   0.68   0.00   0.68     2/3/2009   Total   990   0   0.66   0.00   0.66     2/1/2009   Total   990   0   0.67   0.00   0.67     2/1/2009   Total   900   0   0.68   0.00   0.68     2/1/2009   Total   900   0   0.68   0.00   0.68     2/1/2009   Total   900   0   0.66   0.00   0.67     2/1/2009   Total   900   0   0.66   0.00   0.68     2/1/2009   Total   9		Total		0	0.73	0.00	
1/15/2009   Total   760			·				
1/16/2009   Total   1,010   0   0.70   0.00   0.70     1/17/2009   Total   1,120   0   0.78   0.00   0.78     1/18/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   940   0   0.65   0.00   0.65     1/20/2009   Total   880   0   0.61   0.00   0.61     1/21/2009   Total   1,060   0   0.74   0.00   0.74     1/22/2009   Total   1,080   0   0.75   0.00   0.74     1/22/2009   Total   970   0   0.67   0.00   0.67     1/24/2009   Total   970   0   0.63   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.67     1/26/2009   Total   970   0   0.67   0.00   0.67     1/26/2009   Total   970   0   0.67   0.00   0.67     1/28/2009   Total   9.00   0   0.63   0.00   0.63     1/28/2009   Total   9.00   0   0.63   0.00   0.63     1/28/2009   Total   9.00   0   0.63   0.00   0.63     1/28/2009   Total   1,110   0   0.77   0.00   0.77     1/29/2009   Total   1,160   0   0.81   0.00   0.81     1/31/2009   Total   9.70   0   0.67   0.00   0.67     2/1/2009   Total   9.70   0   0.67   0.00   0.67     2/1/2009   Total   9.70   0   0.67   0.00   0.68     2/3/2009   Total   1,160   0   0.81   0.00   0.81     1/31/2009   Total   9.70   0   0.67   0.00   0.67     2/1/2009   Total   9.70   0   0.67   0.00   0.67     2/1/2009   Total   9.70   0   0.64   0.00   0.64     2/2/2009   Total   9.70   0   0.64   0.00   0.64     2/2/2009   Total   9.70   0   0.67   0.00   0.68     2/3/2009   Total   9.70   0   0.67   0.00   0.68     2/3/2009   Total   9.70   0   0.67   0.00   0.68     2/3/2009   Total   9.70   0   0.67   0.00   0.67     2/5/2009   Total   9.70   0   0.67   0.00   0.67     2/5/2009   Total   9.70   0   0.67   0.00   0.67     2/11/2009   Total   9.70   0   0.67   0.00   0.69     2/8/2009   Total   9.70   0   0.67   0.00   0.69     2/11/2009   Total   9.70   0   0.67   0.00   0.69     2/11/2009   Total   9.70   0   0.68   0.00   0.68     2/11/20				0			
1/17/2009					_		
1/18/2009   Total   1,010   0   0.70   0.00   0.70     1/19/2009   Total   940   0   0.65   0.00   0.65     1/20/2009   Total   880   0   0.61   0.00   0.61     1/21/2009   Total   1,060   0   0.74   0.00   0.74     1/22/2009   Total   1,080   0   0.75   0.00   0.75     1/23/2009   Total   970   0   0.67   0.00   0.67     1/24/2009   Total   910   0   0.63   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.67     1/26/2009   Total   970   0   0.67   0.00   0.67     1/28/2009   Total   900   0   0.63   0.00   0.63     1/28/2009   Total   900   0   0.63   0.00   0.63     1/28/2009   Total   900   0   0.63   0.00   0.63     1/28/2009   Total   1,110   0   0.77   0.00   0.77     1/29/2009   Total   800   0   0.56   0.00   0.56     1/30/2009   Total   1,160   0   0.81   0.00   0.81     1/31/2009   Total   970   0   0.67   0.00   0.67     2/11/2009   Total   990   0   0.64   0.00   0.67     2/12/2009   Total   980   0   0.66   0.00   0.67     2/12/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   910   0   0.63   0.00   0.63     2/7/2009   Total   910   0   0.63   0.00   0.63     2/7/2009   Total   900   0   0.69   0.00   0.69     2/8/2009   Total   900   0   0.67   0.00   0.67     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   960   0.66   0.67   0.00   0.68     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.58   0.00   0.58     2/11/2009   Total   1,040   0   0.58   0.00   0.58     2/11/2009   Total   1,040   0   0.58   0.00   0.58     2/11/2009   Total   900   0   0.63   0.00   0.63     2/11/2009   Total   1,210   0   0.84   0.00   0.59     2/11/2009   Total   1,210   0   0.84   0.00   0.59     2/116/2009							
1/19/2009   Total   940   0   0.65   0.00   0.65     1/20/2009   Total   880   0   0.61   0.00   0.61     1/21/2009   Total   1,060   0   0.74   0.00   0.74     1/22/2009   Total   1,080   0   0.75   0.00   0.75     1/23/2009   Total   970   0   0.67   0.00   0.67     1/24/2009   Total   910   0   0.63   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.67     1/26/2009   Total   970   0   0.67   0.00   0.67     1/27/2009   Total   9.00   0   0.63   0.00   0.63     1/28/2009   Total   1,050   0   0.73   0.00   0.73     1/28/2009   Total   9.00   0   0.63   0.00   0.63     1/28/2009   Total   1,110   0   0.77   0.00   0.77     1/29/2009   Total   800   0   0.56   0.00   0.56     1/30/2009   Total   1,160   0   0.81   0.00   0.81     1/31/2009   Total   970   0   0.67   0.00   0.67     2/1/2009   Total   920   0   0.64   0.00   0.64     2/2/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   840   0   0.58   0.00   0.68     2/3/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   910   0   0.63   0.00   0.63     2/7/2009   Total   910   0   0.63   0.00   0.63     2/7/2009   Total   900   0   0.69   0.00   0.69     2/8/2009   Total   960   0   0.67   0.00   0.67     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.67   0.00   0.67     2/11/2009   Total   1,040   0   0.68   0.00   0.68     2/11/2009   Total   1,040   0   0.69   0.00   0.68     2/11/2009   Total   1,040   0   0.69   0.00   0.69     2/			·				
1/20/2009         Total         880         0         0.61         0.00         0.61           1/21/2009         Total         1,060         0         0.74         0.00         0.74           1/22/2009         Total         1,080         0         0.75         0.00         0.75           1/23/2009         Total         970         0         0.67         0.00         0.63           1/24/2009         Total         970         0         0.63         0.00         0.63           1/25/2009         Total         970         0         0.67         0.00         0.63           1/26/2009         Total         970         0         0.67         0.00         0.67           1/27/2009         Total         900         0         0.63         0.00         0.63           1/28/2009         Total         900         0         0.63         0.00         0.63           1/28/2009         Total         800         0         0.56         0.00         0.56           1/30/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64<			·				
1/21/2009							
1/22/2009         Total         1,080         0         0.75         0.00         0.75           1/23/2009         Total         970         0         0.67         0.00         0.67           1/24/2009         Total         910         0         0.63         0.00         0.63           1/25/2009         Total         970         0         0.67         0.00         0.63           1/26/2009         Total         1,050         0         0.73         0.00         0.63           1/27/2009         Total         900         0         0.63         0.00         0.63           1/28/2009         Total         900         0         0.63         0.00         0.63           1/28/2009         Total         800         0         0.56         0.00         0.56           1/30/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.68           2/3/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         940         0         0.67 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>					_		
1/23/2009   Total   970   0   0.67   0.00   0.67     1/24/2009   Total   910   0   0.63   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.67     1/26/2009   Total   1,050   0   0.73   0.00   0.73     1/27/2009   Total   900   0   0.63   0.00   0.63     1/28/2009   Total   1,110   0   0.77   0.00   0.77     1/29/2009   Total   800   0   0.56   0.00   0.56     1/30/2009   Total   1,160   0   0.81   0.00   0.81     1/31/2009   Total   970   0   0.67   0.00   0.67     2/1/2009   Total   920   0   0.64   0.00   0.64     2/2/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   970   0   0.67   0.00   0.67     2/4/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   1,050   0   0.73   0.00   0.73     2/6/2009   Total   1,050   0   0.63   0.00   0.63     2/7/2009   Total   1,000   0   0.69   0.00   0.69     2/8/2009   Total   800   0   0.56   0.00   0.56     2/9/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,030   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.58   0.00   0.58     2/14/2009   Total   1,210   0   0.84   0.00   0.84     2/15/2009   Total   1,210   0   0.84   0.00   0.63     2/16/2009   Total   1,210   0   0.84   0.00   0.63     2/16/2009   Total   1,210   0   0.84   0.00   0.59			·				-
1/24/2009   Total   910   0   0.63   0.00   0.63     1/25/2009   Total   970   0   0.67   0.00   0.67     1/26/2009   Total   1,050   0   0.73   0.00   0.73     1/27/2009   Total   900   0   0.63   0.00   0.63     1/28/2009   Total   1,110   0   0.77   0.00   0.77     1/29/2009   Total   800   0   0.56   0.00   0.56     1/30/2009   Total   1,160   0   0.81   0.00   0.81     1/31/2009   Total   970   0   0.67   0.00   0.67     2/1/2009   Total   980   0   0.68   0.00   0.66     2/1/2009   Total   980   0   0.64   0.00   0.64     2/2/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   980   0   0.68   0.00   0.68     2/3/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   970   0   0.67   0.00   0.67     2/5/2009   Total   1,050   0   0.73   0.00   0.73     2/6/2009   Total   910   0   0.63   0.00   0.63     2/7/2009   Total   1,000   0   0.69   0.00   0.69     2/8/2009   Total   1,000   0   0.69   0.00   0.69     2/8/2009   Total   960   0   0.67   0.00   0.67     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,030   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   1,040   0   0.72   0.00   0.72     2/11/2009   Total   840   0   0.58   0.00   0.58     2/14/2009   Total   840   0   0.58   0.00   0.63     2/15/2009   Total   840   0   0.63   0.00   0.63     2/16/2009   Total   850   0   0.59   0.00   0.59			,				
1/25/2009         Total         970         0         0.67         0.00         0.67           1/26/2009         Total         1,050         0         0.73         0.00         0.73           1/27/2009         Total         900         0         0.63         0.00         0.63           1/28/2009         Total         1,110         0         0.77         0.00         0.77           1/29/2009         Total         800         0         0.56         0.00         0.56           1/30/2009         Total         1,160         0         0.81         0.00         0.81           1/31/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.67           2/1/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         970         0         0.67 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1/26/2009         Total         1,050         0         0.73         0.00         0.73           1/27/2009         Total         900         0         0.63         0.00         0.63           1/28/2009         Total         1,110         0         0.77         0.00         0.77           1/29/2009         Total         800         0         0.56         0.00         0.56           1/30/2009         Total         1,160         0         0.81         0.00         0.81           1/31/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.64           2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.63           2/4/2009         Total         910         0         0.63 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1/27/2009         Total         900         0         0.63         0.00         0.63           1/28/2009         Total         1,110         0         0.77         0.00         0.77           1/29/2009         Total         800         0         0.56         0.00         0.56           1/30/2009         Total         1,160         0         0.81         0.00         0.81           1/31/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.64           2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56 <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>					_		
1/28/2009         Total         1,110         0         0.77         0.00         0.77           1/29/2009         Total         800         0         0.56         0.00         0.56           1/30/2009         Total         1,160         0         0.81         0.00         0.81           1/31/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.64           2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.68           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.63           2/6/2009         Total         910         0         0.63         0.00         0.63           2/8/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         960         0         0.67 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1/29/2009         Total         800         0         0.56         0.00         0.56           1/30/2009         Total         1,160         0         0.81         0.00         0.81           1/31/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.64           2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.68           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.67           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         1,040         0         0.72							
1/30/2009         Total         1,160         0         0.81         0.00         0.81           1/31/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.64           2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.67           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.72           2/11/2009         Total         1,030         0         0.72			·		_		
1/31/2009         Total         970         0         0.67         0.00         0.67           2/1/2009         Total         920         0         0.64         0.00         0.64           2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.73           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
2/1/2009         Total         920         0         0.64         0.00         0.64           2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.73           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.67           2/13/2009         Total         840         0         0.58							
2/2/2009         Total         980         0         0.68         0.00         0.68           2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.73           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
2/3/2009         Total         840         0         0.58         0.00         0.58           2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.73           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.							
2/4/2009         Total         970         0         0.67         0.00         0.67           2/5/2009         Total         1,050         0         0.73         0.00         0.73           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.63           2/15/2009         Total         900         0         0.63         0							
2/5/2009         Total         1,050         0         0.73         0.00         0.73           2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.63           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59							
2/6/2009         Total         910         0         0.63         0.00         0.63           2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59					_		
2/7/2009         Total         1,000         0         0.69         0.00         0.69           2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59			·				
2/8/2009         Total         800         0         0.56         0.00         0.56           2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59							
2/9/2009         Total         960         0         0.67         0.00         0.67           2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59			,				
2/10/2009         Total         1,040         0         0.72         0.00         0.72           2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59							
2/11/2009         Total         1,030         0         0.72         0.00         0.72           2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59							
2/12/2009         Total         960         0.67         0.00         0.67           2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59			,				
2/13/2009         Total         840         0         0.58         0.00         0.58           2/14/2009         Total         1,210         0         0.84         0.00         0.84           2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59			,	, ,			
2/14/2009     Total     1,210     0     0.84     0.00     0.84       2/15/2009     Total     900     0     0.63     0.00     0.63       2/16/2009     Total     850     0     0.59     0.00     0.59				0			
2/15/2009         Total         900         0         0.63         0.00         0.63           2/16/2009         Total         850         0         0.59         0.00         0.59							
2/16/2009 Total 850 0 0.59 0.00 0.59			·				
	-						
2/18/2009 Total 1,040 0 0.72 0.00 0.72							
2/19/2009 Total 1,010 0 0.70 0.00 0.70							

		Well #2	Well #1	Well #2	Well #1	Total Daily
Date		Flow	Flow	Average	Average	Average Flow
		(gal)	(gal)	(gpm)	(gpm)	(gpm)
2/20/2009	Total	1,050	0	0.73	0.00	0.73
2/21/2009	Total	850	0	0.59	0.00	0.59
2/22/2009	Total	970	0	0.67	0.00	0.67
2/23/2009	Total	790	0	0.55	0.00	0.55
2/24/2009	Total	1,070	0	0.74	0.00	0.74
2/25/2009	Total	800	0	0.56	0.00	0.56
2/26/2009	Total	950	0	0.66	0.00	0.66
2/27/2009	Total	1,010	0	0.70	0.00	0.70
2/28/2009	Total	830	0	0.58	0.00	0.58
3/1/2009	Total	990	0	0.69	0.00	0.69
3/2/2009	Total	880	0	0.61	0.00	0.61
3/3/2009	Total	950	0	0.66	0.00	0.66
3/4/2009	Total	920	0	0.64	0.00	0.64
3/5/2009	Total	980	0	0.68	0.00	0.68
3/6/2009	Total	830	0	0.58	0.00	0.58
3/7/2009	Total	860	0	0.60	0.00	0.60
3/8/2009	Total	890	0	0.62	0.00	0.62
3/9/2009	Total	940	0	0.65	0.00	0.65
3/10/2009	Total	990	0	0.69	0.00	0.69
3/11/2009	Total	860	0	0.60	0.00	0.60
3/12/2009	Total	970	0	0.67	0.00	0.67
3/13/2009	Total	1,030	0	0.72	0.00	0.72
3/14/2009	Total	910	0	0.63	0.00	0.63
3/15/2009	Total	930	0	0.65	0.00	0.65
3/16/2009	Total	970	0	0.67	0.00	0.67
3/17/2009	Total	740	0	0.51	0.00	0.51
3/18/2009	Total	1,090	0	0.76	0.00	0.76
3/19/2009	Total	910	0	0.63	0.00	0.63
3/20/2009	Total	1,040	0	0.72	0.00	0.72
3/21/2009	Total	800	0	0.56	0.00	0.56
3/22/2009	Total	970	0	0.67	0.00	0.67
3/23/2009	Total	1,040	0	0.72	0.00	0.72
3/24/2009	Total	850	0	0.59	0.00	0.59
3/25/2009	Total	850	0	0.59	0.00	0.59
3/26/2009	Total	910	0	0.63	0.00	0.63
3/27/2009	Total	1,030	0	0.72	0.00	0.72
3/28/2009	Total	870	0	0.60	0.00	0.60
3/29/2009	Total	790	0	0.55	0.00	0.55
3/30/2009	Total	870	0	0.60	0.00	0.60
3/31/2009	Total	1,020	0	0.71	0.00	0.71
4/1/2009	Total	910	0	0.63	0.00	0.63
4/2/2009	Total	910	0	0.63	0.00	0.63
4/3/2009	Total	790	0	0.55	0.00	0.55
4/4/2009	Total	1,040	0	0.72	0.00	0.72
4/5/2009	Total	950	0	0.66	0.00	0.66
4/6/2009	Total	860	0	0.60	0.00	0.60
4/7/2009	Total	810	0	0.56	0.00	0.56
4/8/2009	Total	990	0	0.69	0.00	0.69
4/9/2009	Total	980	0	0.68	0.00	0.68
4/10/2009	Total	880	0	0.61	0.00	0.61
4/11/2009	Total	870	0	0.60	0.00	0.60

		Well #2	Well #1	Well #2	Well #1	Total Daily
Date		Flow	Flow	Average	Average	Average Flow
		(gal)	(gal)	(gpm)	(gpm)	(gpm)
4/12/2009	Total	860	0	0.60	0.00	0.60
4/13/2009	Total	920	0	0.64	0.00	0.64
4/14/2009	Total	1,040	0	0.72	0.00	0.72
4/15/2009	Total	800	0	0.56	0.00	0.56
4/16/2009	Total	860	0	0.60	0.00	0.60
4/17/2009	Total	870	0	0.60	0.00	0.60
4/18/2009	Total	920	0	0.64	0.00	0.64
4/19/2009	Total	980	0	0.68	0.00	0.68
4/20/2009	Total	870	0	0.60	0.00	0.60
4/21/2009	Total	790	0	0.55	0.00	0.55
4/22/2009	Total	920	0	0.64	0.00	0.64
4/23/2009	Total	990	0	0.69	0.00	0.69
4/24/2009	Total	990	0	0.69	0.00	0.69
4/25/2009	Total	980	0	0.68	0.00	0.68
4/26/2009	Total	850	0	0.59	0.00	0.59
4/27/2009	Total	900	0	0.63	0.00	0.63
4/28/2009	Total	850	0	0.59	0.00	0.59
4/29/2009	Total	950	0	0.66	0.00	0.66
4/30/2009	Total	910	0	0.63	0.00	0.63
5/1/2009	Total	780	0	0.54	0.00	0.54
5/2/2009	Total	990	0	0.69	0.00	0.69
5/3/2009	Total	930	0	0.65	0.00	0.65
5/4/2009	Total	850	0	0.59	0.00	0.59
5/5/2009	Total	840	0	0.58	0.00	0.58
5/6/2009	Total	910	0	0.63	0.00	0.63
5/7/2009	Total	960	0	0.67	0.00	0.67
5/8/2009	Total	840	0	0.58	0.00	0.58
5/9/2009	Total	840	0	0.58	0.00	0.58
5/10/2009	Total	960	0	0.67	0.00	0.67
5/11/2009	Total	840	0	0.58	0.00	0.58
5/12/2009	Total	1,000	0	0.69	0.00	0.69
5/13/2009	Total	820	0	0.57	0.00	0.57
5/14/2009	Total	6,310	0	4.38	0.00	4.38
5/15/2009	Total	10,480	0	7.28	0.00	7.28
5/16/2009	Total	10,010	0	6.95	0.00	6.95
5/17/2009	Total	840	0	0.58	0.00	0.58
5/18/2009	Total	930	0	0.65	0.00	0.65
5/19/2009	Total	920	0	0.64	0.00	0.64
5/20/2009	Total	770	0	0.53	0.00	0.53
5/21/2009	Total	950	0	0.66	0.00	0.66
5/22/2009	Total	880	0	0.61	0.00	0.61
5/23/2009	Total	990	0	0.69	0.00	0.69
5/24/2009	Total	890	0	0.62	0.00	0.62
5/25/2009	Total	810	0	0.56	0.00	0.56
5/26/2009	Total	940	0	0.65	0.00	0.65
5/27/2009	Total	1,000	0	0.69	0.00	0.69
5/28/2009	Total	950	0	0.66	0.00	0.66
5/29/2009	Total	880	0	0.61	0.00	0.61
5/30/2009	Total	1,060	0	0.74	0.00	0.74
5/31/2009	Total	880	0	0.61	0.00	0.61
6/1/2009	Total	240	0	0.17	0.00	0.17

		Well #2	Well #1	Well #2	Well #1	Total Daily
Date		Flow	Flow	Average	Average	Average Flow
		(gal)	(gal)	(gpm)	(gpm)	(gpm)
6/2/2009	Total	0	0	0.00	0.00	0.00
6/3/2009	Total	0	0	0.00	0.00	0.00
6/4/2009	Total	3,560	0	2.47	0.00	2.47
6/5/2009	Total	1,140	0	0.79	0.00	0.79
6/6/2009	Total	780	0	0.54	0.00	0.54
6/7/2009	Total	810	0	0.56	0.00	0.56
6/8/2009	Total	1,050	0	0.73	0.00	0.73
6/9/2009	Total	1,020	0	0.71	0.00	0.71
6/10/2009	Total	900	0	0.63	0.00	0.63
6/11/2009	Total	980	0	0.68	0.00	0.68
6/12/2009	Total	980	0	0.68	0.00	0.68
6/13/2009	Total	1,150	0	0.80	0.00	0.80
6/14/2009	Total	880	0	0.61	0.00	0.61
6/15/2009	Total	730	0	0.51	0.00	0.51
6/16/2009	Total	1,210	0	0.84	0.00	0.84
6/17/2009	Total	1,160	0	0.81	0.00	0.81
6/18/2009	Total	1,060	0	0.74	0.00	0.74
6/19/2009	Total	960	0	0.67	0.00	0.67
6/20/2009	Total	990	0	0.69	0.00	0.69
6/21/2009	Total	870	0	0.60	0.00	0.60
6/22/2009	Total	6,450	0	4.48	0.00	4.48
6/23/2009	Total	9,140	0	6.35	0.00	6.35
6/24/2009	Total	1,280	0	0.89	0.00	0.89
6/25/2009	Total	1,390	0	0.97	0.00	0.97
6/26/2009	Total	1,200	0	0.83	0.00	0.83
6/27/2009	Total	1,460	0	1.01	0.00	1.01
6/28/2009	Total	1,280	0	0.89	0.00	0.89
6/29/2009	Total	1,020	0	0.71	0.00	0.71
6/30/2009	Total	5,140	0	3.57	0.00	3.57
Grand To	otal	213,670	0	0.820	0.000	0.820