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FINAL SEMI-ANNUAL O&M REPORT
REMEDIAL WORK ELEMENTS I, II AND IV
REPORTING PERIOD DECEMBER 4, 2007 THROUGH JUNE 30, 2008

Malta Rocket Fuel Area Site
Malta, New York

August 5, 2008

Submitted to:

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CERTIFICATION: This document has been reviewed and is prepared in accordance with the contract documents.

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TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF APPENDICES

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 December 4, 2007 through June 30, 2008.

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

According to the provisions of the *Operation and Maintenance Manual, Remedial Work Element I, Drinking Water, IT Corporation, Inc., January 15, 2002*, 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 25, February 21, March 19, April 14, May 14, and June 5, 2008.

The groundwater treatment system is comprised of a packed tower air stripper. System influent and effluent samples were collected during the February 21 and May 14, 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 wells RW-1D and RW-2D operated at daily average flow rates of approximately 0.047 and 1.025 gallons per minute (gpm), respectively, yielding an average daily combined flow of approximately 1.072 gpm. As a result of the limited use of the test station, these flows are less than those historically recorded. Early in March 2008 (**Appendix D**) RW-1D stopped pumping water to the treatment system. Damage to the pump discharge piping is detailed in further sections.

Review of the analytical results for influent and effluent treatment system samples collected in February and May 2008 confirm that during the reporting period, the system 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 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. The alarm conditions that were received by the

RTU were identified as AC power failures. The AC power failure alarm conditions were apparently caused by short duration power failures which are typical at the MRFA Site. The power failures result in brief interruptions in the delivery of electrical power to the system and do not typically cause disruption or down-time of the treatment system. In addition to these brief interruptions, one AC power failure occurred on April 14, 2008 due to a faulty electrical switch located just before the air stripper blower. As a result the operator was notified of a low air stripper blower pressure alarm. The switch was replaced on May 1, 2008. Subsequent site visits confirmed the correct operation of the blower. 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.

During the March 19, 2008 inspection it was noted that the settling tank sump pump was not working properly. A replacement pump was order and changed out the following day.

2.2.1 Recovery Well Pump Inspection

Recovery well pumps were inspected during the June 5, 2008 site visit. Shaw personnel utilized confined space entry procedures to enter well vaults RW-1D and RW-2D and disconnect water supply piping. All system piping and electrical power supplies were locked and tagged out during maintenance and inspection activities. The pumps and associated down well pipe from each well casing were removed by hand. Pumps 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.

The pump in RW-1D is encased in a four-inch polyvinyl chloride (PVC) section of slotted well screen. After removal of this protective screen, the pump was inspected and determined to be free of defects. A light coating of mineral scale had accumulated on the pump motor, likely the result of moderate heating during pump operation. There was no accumulation of material surrounding the actual pump intake screen. The pump was subsequently wiped down, the protective casing re-installed, and the pump re-positioned in the well without modification to the piping. Following installation, the pump was restarted and the piping was inspected for leaks in the well vault. Leaks within the vault were not observed, however Shaw personnel did note the presence of a hole adjacent to the vault. This hole would fill with water while the system was running and quickly subside when the pump shut off. It was determined that a break in the line (near where the pipe exits the vault) leading from the vault to the main building was causing this hole to fill and subside with the operation of the pump. Following the June 5, 2008 inspection this pump remains locked and tagged out and the system will be operated using RW-2D.

The recovery pump in RW-2D was also removed and inspected in the same manner as the RW-1D pump. This pump does not have a protective casing installed on the pump body. 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 without incident. Following re-installation, the pump was restarted and associated piping was inspected for leaks in the well vault.

2.2.2 100,000 Gallon Reservoir Inspection

The annual inspection of the 100,000 gallon reservoir was performed on May 15, 2008. 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. All confined space entry procedures, including air monitoring and the use of retrieval equipment, were used during the inspection.

2.2.3 Air Stripper Tower Inspection

Shaw accessed the top section of the air stripper tower on June 5, 2008. 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 wells RW-1D and RW-2D collected during monthly site visits are presented in **Table 3**, **Process Operating Report**. The totalizer readings collected at the Site demonstrate average recovery well water flow rates for the period of December 4, 2007 to June 30, 2008 are as follows:

Well RW-1D: 0.0528 gpm
Well RW-2D: 0.9386 gpm
System Avg: 0.9915 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 1.072 gpm for the reporting period. The average water flow rate calculated from field observations (0.9915) is statistically the same to the average daily water flow rate calculated from the data logger (1.072), confirming the data logger's accuracy and usefulness in verifying field observations.

The average daily water flow rates observed during the reporting period were less than those observed during the last reporting period and can be attributed to the limited use of the test station water supply by the current property owner and in part to the fact that New York State Energy Research and Development Authority (NYSERDA) was disconnected from the test station water supply and connected to Saratoga Water Services in November 2005. Instantaneous flow, has decreased since early March 2008.

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 2.80 to 3.40 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 21 and May 14, 2008 and analyzed by Columbia Analytical Laboratories, Inc., of Rochester, New York. Influent and effluent 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 and chain of custody forms for the February 21 and May 14, 2008 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 0.2µg/l, respectively. TCE were detected at estimated concentrations of 0.7µg/l and 0.3µg/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.

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	Influent (µg/l)	Effluent (µg/l)	Performance Standard (µg/l)
Carbon Tetrachloride	February 21, 2008	31	0.4 J	5
	May 14, 2008	25	0.2 J	5
TCE	February 21, 2008	54	0.7 J	5
	May 14, 2008	42	0.3 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 a concentration of 5 µg/l in the February 21, 2008 air stripper influent sample. Chloroform was not detected in the May 14, 2008 air stripper influent sample or in the air stripper effluent samples collected on February 21, 2008 and May 14, 2008. 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 21, 2008	5	ND	70
	May 14, 2008	ND	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.

3.0 O&M OF REMEDIAL WORK ELEMENT II (Groundwater)

3.1 Sample Collection

Modifications to the Early Warning Monitoring System (EWMS) monitoring program have been specified in *Addendum No. 1, Operations and Maintenance Manual, Remedial Work Element II-Groundwater, Malta Rocket Fuel Area Site, General Electric Company, January 31, 2005* (Addendum No. 1). In accordance with the *Operations and Maintenance Manual for Remedial Work Element II - Ground Water, ERM Northeast, Inc., January 22, 1998,* (O&M-GW) and Addendum No. 1, unfiltered groundwater samples were collected on May 14 and 15, 2008 from the EWMS. In accordance with the *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 *"Proposed Modifications to Groundwater and Surface Water Sampling Regimes at the Malta Rocket Fuel Area Site"* 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-24D, M-25D, M-27D, M-29D, M-33S, and M-33I (**Figure 1**). Blind duplicate samples were collected from well 13D for chromium and hexavalent chromium. Trip blanks were also analyzed.

Samples from all designated monitoring well sampling locations were analyzed for VOCs by USEPA Method OLC-02.1 by Columbia Analytical Services, Inc. in Rochester, New York except for samples from well 13D. Samples from well 13D were 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). Samples from monitoring well M-27D were analyzed for VOCs, unfiltered total matrix chromium following CLP procedures and unfiltered hexavalent chromium.

Results of the May 2008 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. Figures 3, 4** and **5** include comparisons of

simulated versus observed concentrations of carbon tetrachloride at monitoring well M-27D, TCE at monitoring well M-33S and TCE at monitoring well M-33I, respectively.

3.2 Chromium Analytical Results

Results of the unfiltered total chromium analysis collected in May 2008 at well 13D indicated a concentration of 13.2 µg/l which is below the New York State Ground Water Standard (NYSGWS) of 50 µg/l. Total chromium was not detected above laboratory method detection limits in well M-27D.

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

3.3 VOC Analytical Results

Carbon tetrachloride was detected in monitoring wells M-24D, M-25D, M-27D M-29D and 11D at concentrations of 9 µg/l, 56 µg/l, 11 µg/l, 33 µg/l and 11 µg/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**.

After completion of the data validation it was determined that chloroform was not detected above laboratory method detection limits in any of the monitoring wells sampled during this reporting period.

TCE was detected in monitoring wells in M-25D, M-27D M-29D and 11D at concentrations of 52 µg/l, 13 µg/l, 11 µg/l and 1 µg/l respectively. Trichlorofluoromethane was also detected in monitoring well M-27D at an estimated concentration of 0.6 µg/l. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 4 µg/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. A comparison was also performed for TCE in monitoring well M-33S (**Figure 4**) and M-33I (**Figure 5**). As predicted by the simulations, TCE was not detected in the water samples collected at monitoring wells M-33S and M-33I.

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 semi-annual groundwater sampling activities and annual environmental easement restriction interviews with property owner representatives during the October semi-annual reporting period. With the exception of the visual inspections of the environmental restriction zone, no institutional control activities were conducted during this reporting period. These activities will be conducted and reported during the next reporting period.

5.0 SUMMARY

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 well 13D. The Chromium detection collected from this monitoring well was 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-24D, M-25D, M-27D M-29D and 11D at concentrations of 9 µg/l, 56 µg/l, 11 µg/l, 33 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, according to third party data validation, was not detected above laboratory method detection limits at the monitoring wells during this reporting period.
- TCE was detected in monitoring wells in M-25D, M-27D, M-29D and 11D at concentrations of 52 µg/l, 13 µg/l, 11 µg/l and 1 µg/l respectively. Trichlorofluoromethane was also detected in monitoring well M-27D at an estimated concentration of 0.6 µg/l and 1,1,1-trichloroethane was detected in monitoring well M-29D at a concentration of 4 µg/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 µg/l.
- As shown in **Figures 3, 4** and **5**, simulated concentrations of carbon tetrachloride and TCE 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 as problems occur
Well Pump 2D	Pump bowls	Check for signs of iron fouling & impeller wear	Annually	More frequently as 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 Blower Low Pressure Blower Low Amps Building Low Temperature	Check for proper operation. System should alarm after pre-set delay period.	Monthly	Adjust frequency depending on operating experience

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

Date	Operator	Operational Status of System	Work Performed
1/25/08	Marc Flanagan	Arrival – OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK.
2/21/08	Marc Flanagan	Arrival - OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK. Collected system samples for VOAs.
3/19/08	Marc Flanagan	Arrival - OK Departure – Not OK	Monthly O&M visit. System interlock testing performed – all OK. Noticed that sump pump in settling tank was not working properly and required replacement.
3/20/08	Marc Flanagan	Arrival – Not OK Departure – OK	Replaced sump pump in settling tank. Checked all interlocks – all OK. Ran the system through a complete process to check sump pump – all OK.
4/14/08	Marc Flanagan	Arrival – Not OK Departure – Not OK	Arrive to perform monthly O&M check and find AS motor not running. Attempt to troubleshoot problem, motor appears to wired correctly and power to the contactor switch is confirmed.
4/24/08	Marc Flanagan	Arrival – Not OK Departure – Not OK	Confirmed operation of motor and checked voltage and amps across contactor switch. Volts – good, amps not good. Need to replace switch.
5/1/08	Marc Flanagan	Arrival – Not OK Departure – OK	Replace contactor switch before blower. Run thru system interlock checks. All OK.
5/14/08	Marc Flanagan & Robert Adams	Arrival - OK Departure – OK	Monthly O&M visit. System interlock testing performed – all OK. Collected system samples for VOAs.
6/5/08	Marc Flanagan & Robert Adams	Arrival - Not OK Departure – OK	RW-1 down, changed 3 fuses, monthly O&M visit. System interlock testing performed, – all OK upon departure. Leave RW-1 LOTO.

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

1	2	3					4					5
DATE	TIME	WATER FLOW --LINE 1D					WATER FLOW --LINE 2D					PROBLEMS OR COMMENTS
		1D LINE FLOW METER RDG(GPM)	1D LINE TOTALIZER RDG(GAL)	ELAPSED TIME (DAYS)	TOTAL FLOW THIS PERIOD (GAL)	AVG FLOW THIS PERIOD (GPM)	2D LINE FLOW METER RDG(GPM)	2D LINE TOTALIZER RDG(GAL)	ELAPSED TIME (DAYS)	TOTAL FLOW THIS PERIOD (GAL)	AVG FLOW THIS PERIOD (GPM)	
12/4/2007	13:00	1.2	4,688,900	19	NA	NA	7.2	6,511,700	19	NA	NA	Recorded in previous report, replicated here for calculation purposes.
1/25/2008	9:00	<1.0	4,695,500	52	6,600	0.09	7.2	6,553,000	52	41,300	0.55	
2/21/2008	9:15	1.0	4,698,800	27	3,300	0.08	7.2	6,577,800	27	24,800	0.64	
3/19/2008	12:00	<1.0	4,702,600	27	3,800	0.10	7.2	6,670,600	27	92,800	2.39	
3/20/2008	15:30	<1	4,702,600	1	0	0.00	7.2	6,670,600	1	0	0.00	
4/14/2008	17:00	0.0	4,702,600	25	0	0.00	7.2	6,683,700	25	13,100	0.36	
5/14/2008	8:45	0.0	4,702,900	30	300	0.01	7.2	6,730,300	30	46,600	1.08	
6/5/2008	10:00	0.0	4,702,900	22	0	0.00	7.2	6,760,400	22	30,100	0.95	RW-1D vault entered for pump inspection. Pump discharge pipe determined to be leaking.
Summary				184	14,000	0.0528			184	248,700	0.9386	

NR = Not Recorded
NA = Not Applicable

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

1	2	3			4	5
DATE	TIME	STANDPIPE LEVEL (FT)	LEVEL PROBE OK ?	SAMPLES TAKEN ?	AIR BLOWER PRESSURE OK?	PROBLEMS OR COMMENTS
1/25/2008	9:00	12 - 13	Yes	No	Yes-3.2	Monthly O&M visit. Interlock checks OK
2/21/2008	9:15	12 - 13	Yes	Yes	Yes-3.4	Monthly O&M visit. Interlock checks OK. Quarterly system samples collected.
3/19/2008	12:00	12 - 13	Yes	No	Yes-3.0	Monthly O&M visit. Interlock checks OK, sump pump down, shut system down.
3/20/2008	15:30	12 - 13	Yes	No	Yes-3.0	Settling tank sump pump replaced. All interlock checks OK.
4/14/2008	17:00	8 - 10	Yes	No	No	Monthly O&M visit. AS motor not working.
4/24/2008	15:00	7 - 9	Yes	No	No	AS motor not working, contactor switch needs to be replaced.
5/1/2008		7 - 9	Yes	No	No	AS Contactor switch replaced, All interlock checks OK.
5/14/2008	8:45	12 - 13	Yes	Yes	Yes-2.8	Monthly O&M visit and system sample collection. All interlocks OK. RW-1 not showing flow.
6/5/2008	10:00	12 - 13	Yes	No	Yes-3.0	Monthly O&M visit. Interlock checks OK

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 2008 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	DGC-3S	DGC-4S	4D	11D	13D	DUPE (13D)	14 D	M-24D	M-25D	M-27D
Acetone	50	2 UJ	2 UJ	2 UJ	1 UJ	NA	NA	1 UJ	5 UJ	4 UJ	1 UJ
Carbon Disulfide	None*	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	2 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	11	NA	NA	1 U	9	56	11
Chloroform	7	1 U	1 U	1 U	2 U	NA	NA	1 U	1 U	5 U	1 U
2-Butanone	5	5 U	5 U	5 U	5 U	NA	NA	5 U	5 U	12 U	5 U
Trichloroethene	5	1 U	1 U	1 U	1	NA	NA	1 U	1 U	52	13
Trichlorofluoromethane	5*	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	2 U	0.6 J
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	2 U	1 U
1,1-Dichloroethene	NP	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	2 U	1 U
Chromium	50*	NA	NA	NA	NA	13.2	22	NA	NA	NA	1.0 U
Hexavalent Chromium	50*	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U
Field Parameters											
pH	--	6.18	7.78	7.84	7.44	7.81	--	7.80	7.72	7.53	7.74
Temperature (celsius)	--	7.2	9.29	9.01	9.57	10.2	--	10.31	10.08	8.85	9.66
Conductivity (umhos/cm)	--	0.127	0.514	0.447	0.999	0.82	--	0.709	0.776	0.999	0.639
Dissolved Oxygen	--	7.35	4.46	0.69	6.78	0.40	--	10.82	9.50	5.01	10.14
Turbidity (NTUs)	--	102	58	260.0	0.0	301	--	0.0	0.0	10.1	6.0
Depth To Water (feet)	--	8.95	4.95	35.90	26.3	33.1	--	39.9	28.8	26.60	35.00
Ground Water Elevation (feet)	--	196.85	200.85	291.65	293.38	296.17	--	301.47	291.77	287.86	269.27

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 2008 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	M-29D	M-33S	M-33D	Trip Blank	Cooler Blank	SW-A	SW-B	SW-D	SW-E	SW-F	SW-G
Acetone	50	4 UJ	1 UJ	5 U	2 J	0.9 J	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	33	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
Chloroform	7	2 U	1 U	1 U	1 U	0.1 J	NA	NA	NA	NA	NA	NA
2-Butanone	5	10 U	5 U	5 U	5 U	5 U	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	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 Parameters												
pH	--	7.64	8.19	7.87	--	--	NA	NA	NA	NA	NA	NA
Temperature (celsius)	--	10.12	10.64	9.56	--	--	NA	NA	NA	NA	NA	NA
Conductivity (umhos/cm)	--	0.969	0.43	0.785	--	--	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	--	8.11	7.92	1.37	--	--	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	--	1.3	0.0	0.0	--	--	NA	NA	NA	NA	NA	NA
Depth To Water (feet)	--	41.90	10.56	27.75	--	--	NA	NA	NA	NA	NA	NA
Ground Water Elevation (feet)	--	292.76	293.71	275.94	--	--	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).

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7. D - Indentifies all compounds analyzed at a secondary dilution factor.
8. NM - Not measured due to equipment malfunction.
9. NP - Not promulgated.

TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2008
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	6/29-7/1/1987	7/31/87	11/5/87	1/19-1/20/1988	4/18-4/19/1988	7/20-7/21/1988	10/11-10/12/88	1/19-1/20/89	4/10/89	7/12/89	8/15
DGC-3S												
Benzene	0.7*	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	N
Carbon Disulfide	None*	ND	NA	ND	ND	ND	ND	ND	NA	ND	ND	N
Aluminum	100*	0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Lead	25*	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	N
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Hexavalent Chromium	50*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no
DGC-4S												
Carbon Disulfide	None*	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	.
Chromium	50*	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	.
13S												
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N

Notes:

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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.
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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2008
SEMI-ANNUAL SAMPLING

Wells / Compounds DGC-3S	Remedial Action Objective	11/30/1989	5/30/90	8/28/90	12/6/90	4/8-4/10/1991	6/12-6/13/1991	9/23-9/24/1991	12/26-12/27/91	2/10-2/11/92	6/1-6/2/1992	9/28-9/29/1992
Benzene	0.7*	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND/NDdp	ND	ND
Carbon Disulfide	None*	ND	ND	ND	NA	8 V / 7 Vdp	4	ND	ND	ND/NDdp	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	6.1	62.2E/70.3Edp	16.2/ND*, 14.6/ND*dp	25.2/ND*	ND
Hexavalent Chromium	50*	no data	NA	NA	NA	NA	NA	NA	NA	ND/4*/ND dp	NA	NA
DGC-4S												
Carbon Disulfide	None*	- -	- -	- -	- -	ND/0.5Vdp	ND	ND	ND	ND	ND	ND/ND dp
Chromium	50*	- -	- -	- -	- -	NA	NA	15.9	11.9 E	ND/ND*	ND/ND*	ND/ND dp
13S												
Benzene	0.7*	NA	NA	NA	NA	2	0.7/0.6 Jdp	1	ND	ND	ND	ND
Carbon Disulfide	None*	NA	NA	NA	NA	60 D	0.6	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	NA	18/16 dp	6.4	4.4	8	24 J/24 Jdp	8	12	9	6 J	9
Chloroform	7	NA	ND	ND	ND	ND	0.8/0.9 Jdp	ND	0.4 J	0.3 J	ND	ND
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	269/261**	316 E/562 E**	282/498**	504/512**	179/172**
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	280	486/302**	260/310**	NA	287

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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2008
SEMI-ANNUAL SAMPLING

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

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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2008
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action 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
DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	1U	8	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	44.8	46.4	90.7/90.9**	71.4	71.2	98.6 J	72.4	169	249	29.9	136
Hexavalent Chromium	50*	47	47	97	67	51	54.0 J	71.0	178	262	41	12.3

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SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2008
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action											
DGC-3S	**Objective**	**10/23/2001**	**5/29/2002**	**10/29/2002**	**4/9/2003**	**10/9/2003**	**5/25/2004**	**11/2004**	**5/24/2005**	**10/2005**	**5/23/2006**	**10/16/2006**
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NS	NS	NS	NS
Chromium	50*	43.3	13.4	34.8	52.2	49.4	20.1	NA	NS	NS	NS	NS
Hexavalent Chromium	50*	43.6 J	18	3.59	45	51.5	11	11.2	NS	NS	NS	NS

Notes:

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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2008
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	5/14/2007	10/16/2007	5/15/2008
DGC-3S				
Benzene	0.7*	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND
Aluminum	100*	NA	NA	NA
Lead	25*	NA	NA	NA
Chromium	50*	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA
DGC-4S				
Carbon Disulfide	None*	ND	ND	ND
Chromium	50*	NA	NA	NA
13S				
Benzene	0.7*	NS	NS	NS
Carbon Disulfide	None*	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS
Chloroform	7	NS	NS	NS
Trichloroethene	5	NS	NS	NS
Trichlorofluoromethane	5*	NS	NS	NS
Chromium	50*	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS

Notes:

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ND = Not detected.
NS = Not sampled.
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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.
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TABLE 7
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2008
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action 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** 2.0 B/ND** dp	19.8/ND**	not sampled	ND/ND dp	ND	ND	ND	ND	1.2B	ND	4.6 BJ / 4.8 BJ dp	1.4 B / 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:

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NA = Not analyzed.

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J = Estimated concentration.

dp = Duplicate sample.

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

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TABLE 7
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2008
SEMI-ANNUAL SAMPLING

	Remedial Action 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
M-27S													
Carbon Disulfide	None*	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / 0.11 J dp	ND	NA	NA
Chloromethane	5	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / ND dp	ND	NA	NA
Chromium	50*	0.85B/0.90b dp	1.1B	1.2B	ND / ND dp	ND / ND dp	ND / ND dp	1.2 B	8.5 B	1.0 B / 1.8 B dp	83.1	2.6 B / 2.2 B dp	NA
Hexavalent Chromium	50*	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND / ND dp	ND UJ	ND U / ND dp	ND	ND	NA
M-27D													
Carbon Tetrachloride	5	22.3	26.7D/28.9D dp	19.2/19.8 dp	13.8	16.2	14.5	24.2 DJ	5.1 / 4.5 dp	16.6	3 / 2.7 dp	22.1	21
Chloroform	7	1.8	ND / ND dp	1.7J /1.3 dp	1.1	1.1	0.94J	2.4	ND / ND dp	1.0	0.53 JB / 0.55 JB dp	ND	ND
Chloromethane	5	ND	ND / ND dp	ND / ND dp	ND	ND	ND	ND	ND ND dp	ND	ND ND dp	ND	ND
Trichloroethene	5	10.7	12.8 / 12.1 dp	26.4 /26.5D dp	19.4	27 D	22.7	14	2.4 / 2.2 dp	21.8 D	3.2 / 2.9 dp	22.7	18
Trichlorofluoromethane	5*	1.4	1.9 / 1.8 dp	2.9 / 2.9 dp	2.0	2.2	1.5	0.96 J	0.21J / 0.18J dp	2.3	0.27 J / 0.29 J dp	2.3	1.3
Chromium	50*	0.81B	2B/1.8B dp	1.2B/1.2B dp	ND	1.5 B	2 B	1.5 B	5.9B / 6.1B dp	1.2 B	22.6 / 21.3 dp	2.6 B	1.7 B
Hexavalent Chromium	50*	ND	ND/ND dp	ND/ND dp	ND	ND	ND	ND	ND / ND dp	ND	ND / ND dp	ND	ND
M-33S													
VOCs	-	ND	ND	ND	8.0 J	ND	ND	ND	ND	ND	ND	ND	ND
M-33I													
VOCs	-	ND	ND	ND	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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.

TABLE 7
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2008
SEMI-ANNUAL SAMPLING

M-27S	Remedial Action Objective	10/2005	5/23/2006	10/16/2006	5/14/2007	10/16/2007	5/14/2008
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA
Chloromethane	5	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA
M-27D							
Carbon Tetrachloride	5	13	22	12	15	10	11
Chloroform	7	ND	2	0.76J	2	0.7J	ND
Chloromethane	5	ND	ND	ND	ND	ND	ND
Trichloroethene	5	24	16	21	15	14	13
Trichlorofluoromethane	5*	1.0	1 J	1.0	0.9J	0.8J	0.6J
Chromium	50*	1.6 B	2.7	1.7 BJ	ND	ND	ND
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND
M-33S							
VOCs	-	ND	ND	ND	ND	ND	ND
M-33I							
VOCs	-	ND	ND	ND	ND	ND	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.

TABLE 8
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D
JUNE 1992 - MAY 2008
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action 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
4D											
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
11D											
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	6	4.6	13	14	15	12	12	13	11
Chloroform	7	ND	3	ND	4.0	3.0	4.0	3.0	3	2	ND
Trichloroethene	5	9J	7	ND	0.8 J	0.9J	1 J	2.0	1	1	1
M-24D											
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	10	0.7	0.59 J	10	10	11	11	10	9	9
Chloroform	7	ND	ND	ND	0.6 J	0.5J	0.5 J	0.44 J	0.4 J	0.4 J	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-25D											
Acetone	50	ND	ND R	ND	ND	ND	49 D*	25 JD	ND	ND	ND
Carbon Tetrachloride	5	48	27R	86.8 D	81 D	91	76 D*	71 D	60	65	56
Chloroform	7	ND	3R	8.7	8.0	9.0	8 D*	7 D	7	6	ND
Trichloroethene	5	3J	8R	16.1	35 D	37	28 D*	22 D	31	34	52
M-29D											
Acetone	50	ND	ND R	ND	ND	ND	16 D*	ND	ND	ND	ND
Carbon Tetrachloride	5	79	84	10.8	38 D	37	39 D*	33 D	32	34	33
Chloroform	7	ND	14	ND	4.0	5.0	5 D*	4 D	3	3	ND
Trichloroethene	5	19	24	6.0	14	13	14 D*	12 D	11	11	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
Hexavalent Chromium	50*	NA	NA	10 U	10 U	10 U	10 U	14.2	10 U	10 U	10 U

Notes:

Units are µg/l (ppb) unless otherwise stated.
Only detected compounds are listed.
See Remedial Investigation report for additional c
NA = Not analyzed.
ND = Not detected.
NS = Not sampled.
B = The reported value is less than the CRQL/CR
dp = Duplicate sample.
E = Estimated concentration: due to interference.
R = Analysis rejected

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.

FIGURES

ROUTE 9P

COLD SPRINGS WELLS

COLD SPRINGS ROAD

CRAMER ROAD

SW-E

SW-F

SW-G

7

8

6a

6b

M-33S/33I

LUTHER FOREST
RESIDENTIAL
DEVELOPMENT

M-26S/26D

M-11S/11D

M-24S/24D

M-15

M-31S/31D

M-34

M-28S/28D

4S/4D

MW-4

M-18

M-30

M-1/14D

M-32

M-29S/29D

M-17

2S

M-19

MW-3

RW-1D

M-16

M-23

MW-2

M-35S/35I

M-25S/25D

10S/10D

13S/13D

RW-2D

3S/3D

PLAINS ROAD

M-22

M-21

M-20

1a

1b

SW-D

M-27S/27D

2b

2c

SW-B

SW-A

DGC-3S

DGC-4S

PW-4

PW-3

PW-2

PW-1

PW-6

KNAPP ROAD

N

LEGEND

- RECOVERY WELL
- SINGLE WELL LOCATION
- DGC-4S WELL PAIR LOCATION & ID#
- PW-2 PUMPING WELL LOCATION & ID#
- LUTHER FOREST WELL FIELD
- SW-D SURFACE WATER SAMPLE LOCATION & ID#
- 6b RAVINE LOCATION & ID#
- APPROXIMATE MRFA SITE BOUNDARY
- 250' GROUND SURFACE CONTOUR LINE
- ENVIRONMENTAL RESTRICTION BOUNDARY

NOTE:
LOCATIONS OF RW-1D AND RW-2D ARE APPROXIMATE.

REFERENCE:
BASE MAP SOURCE: ERM-NORTHEAST
ENVIRONMENTAL RESOURCES MANAGEMENT

APPROXIMATE SCALE
0 700 1400 2100 FEET

DRAWING NOT TO SCALE

Shaw
Shaw Environmental, Inc.

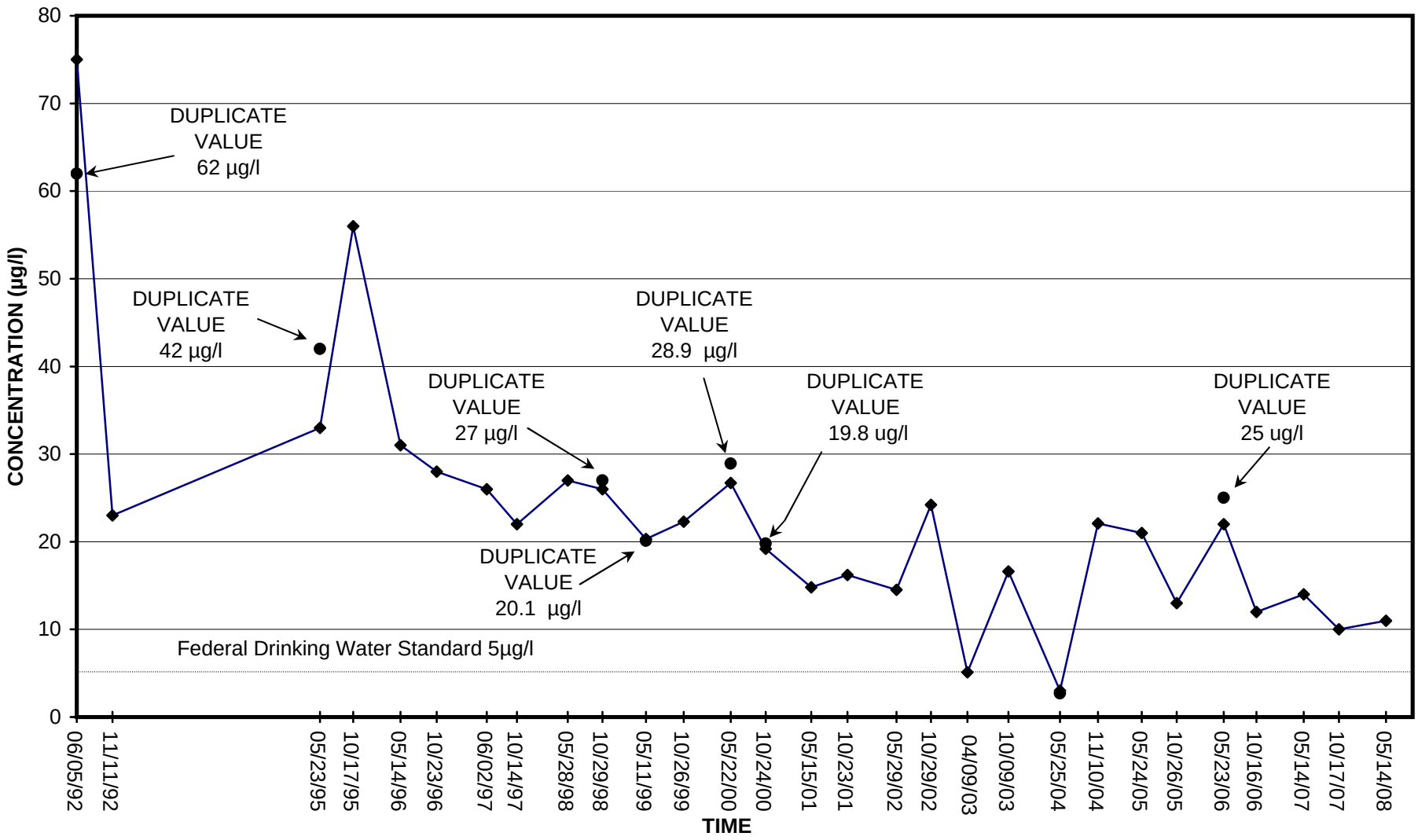
MALTA ROCKET FUEL AREA SITE
MALTA, NEW YORK

FIGURE 1
SITE LOCATION MAP

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
ALBANY, NY	S. SHKOLNIK 07/14/08			129926D1

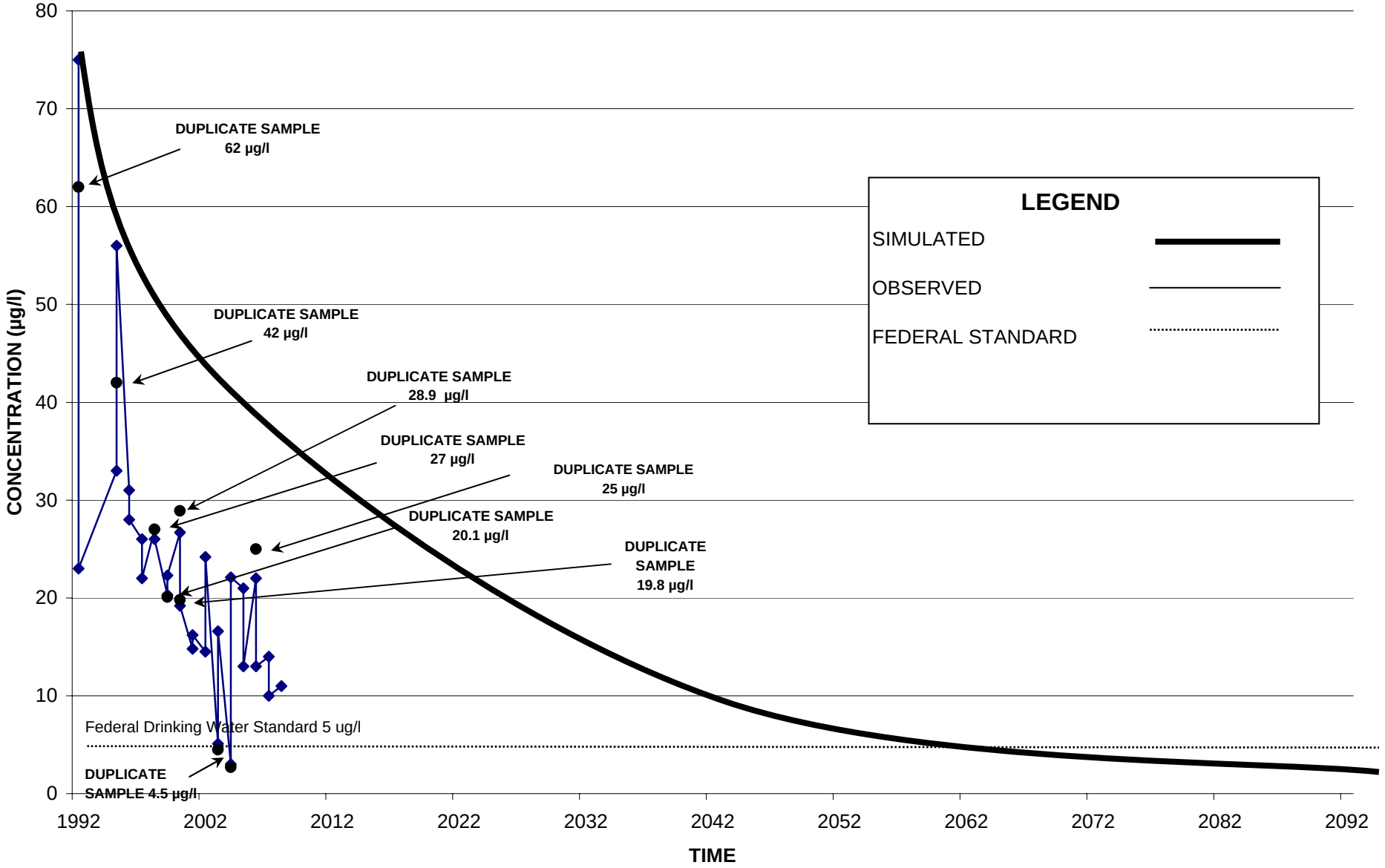
L:\project\MRFA\129926\129926D1.dwg
Plot Date/Time: 07/14/08 11:17am
Format Revised: 11/23/99
Image: .
Xref: .

FIGURE 2
WELL M-27D CARBON TETRACHLORIDE CONCENTRATIONS



X:\MG\MRFA\Semi-Annual Reports\Dec 4, 2007 thru June 30, 2008\Figures 2-5.xls

FIGURE 3
SIMULATED VERSUS OBSERVED (MAY 2008)
CARBON TETRACHLORIDE CONCENTRATIONS
AT WELL M-27D



X:\MG\MRFA\Semi-Annual Reports\Dec 4, 2007 thru June 30, 2008\Figures 2-5.xls

FIGURE 4
SIMULATED VERSUS OBSERVED (MAY 2008)
TRICHLOROETHENE CONCENTRATIONS
AT WELL M-33S

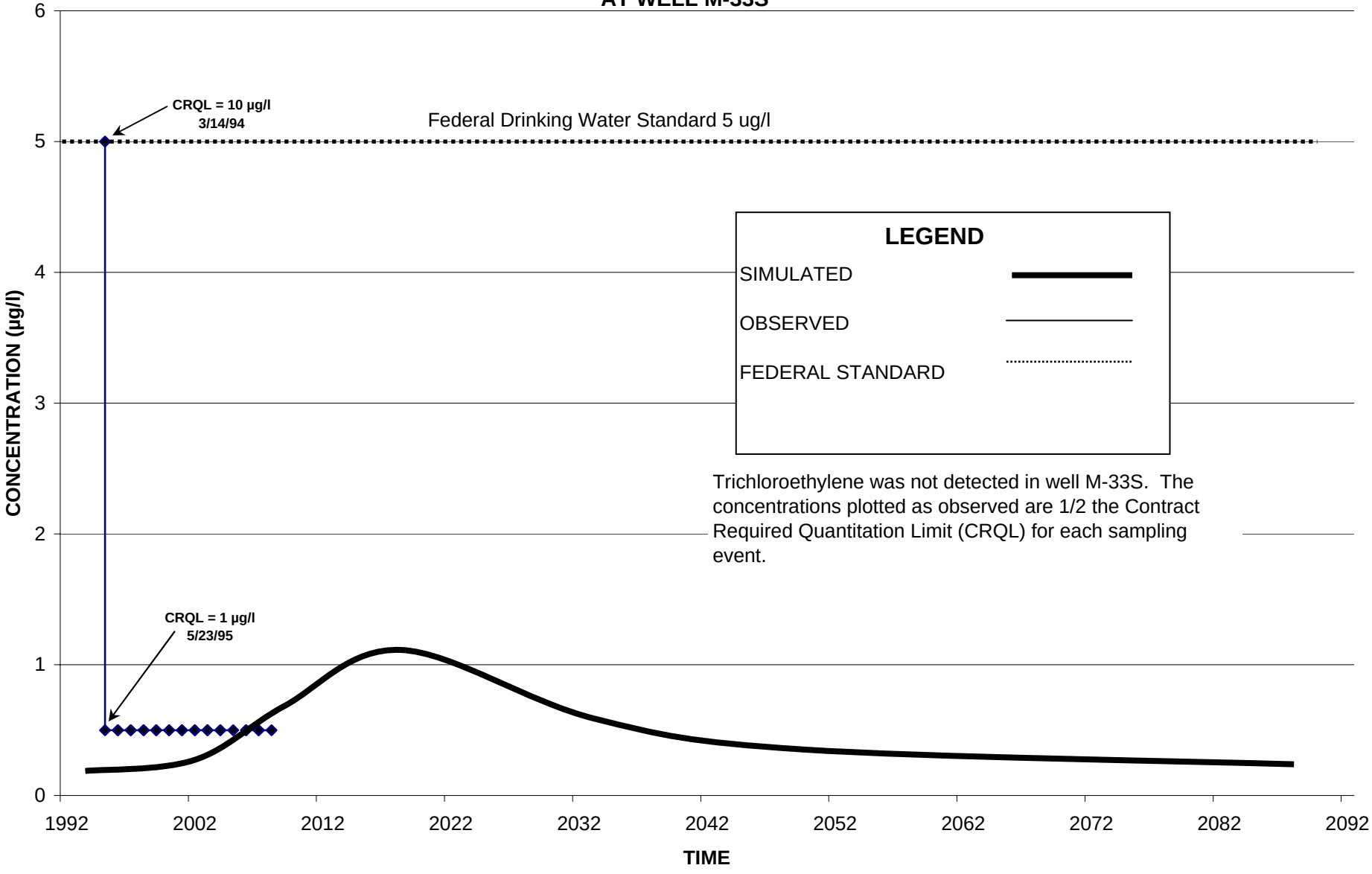
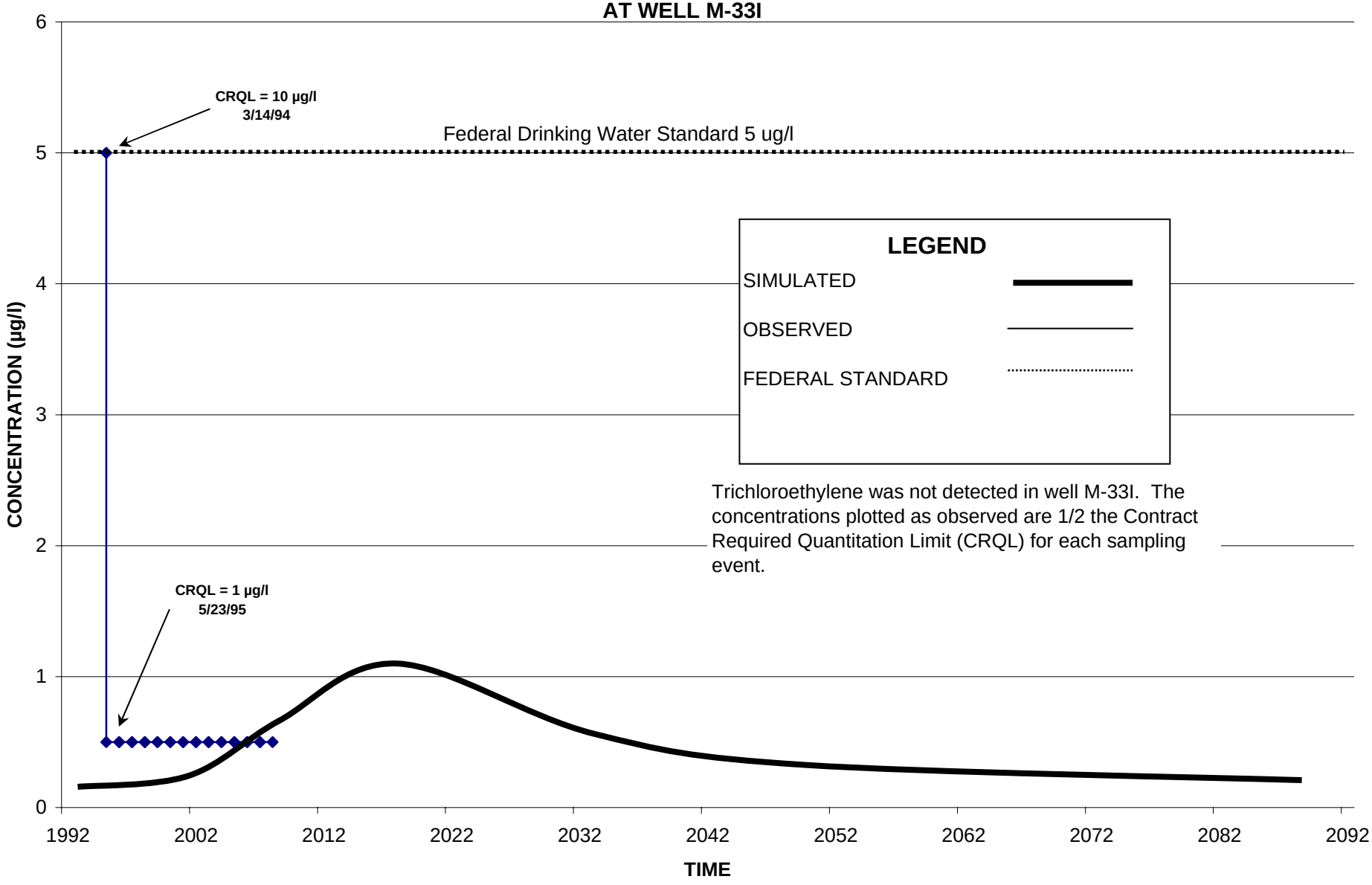


FIGURE 5
SIMULATED VERSUS OBSERVED (MAY 2008)
TRICHLOROETHENE CONCENTRATIONS
AT WELL M-33I



X:\MG\MRFA\Semi-Annual Reports\Dec 4, 2007 thru June 30, 2008\Figures 2-5.xls

APPENDIX A

LABORATORY DATA, INFLUENT/EFFLUENT WATER SAMPLES

FEBRUARY 21, 2008

1 Mustard Street, Suite 250 Rochester, NY 14609-6925 (585) 288-5380 (585) 288-8475 fax

Columbia Analytical Services INC.
An Employee - Owned Company

March 25, 2008

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

Re: GE - MRFA
Submission # R2842409
SDG # MRFA-INFLUENT

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of three water samples and one trip blank were received by our laboratory on February 22, 2008.

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

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

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Carlton R. Beechler
Project Chemist

enc.

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

Columbia Analytical Services, inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Shaw Environmental
Project Reference: GE-MRFA PROJECT# 810066
Lab Submission # : R2842409
Project Manager : Carlton Beechler
Reported : 03/25/08

Report Contains a total of 48 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal. Michael K. Perry

CASE NARRATIVE

COMPANY: Shaw Environmental
GE MRFA Project #810066 SUBMISSION #: R2842409

Shaw samples were sampled on 2/21/08 and received at CAS on 2/22/08 in good condition.

VOLATILE ORGANICS

Three water samples, one cooler blank and one trip blank were analyzed for Low Level Volatiles by OLC2.1 CLP methodology.

Hits between the MDL and PQL are flagged with a "J" as estimated.

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

All internal standard areas were within QC limits.

All Tuning criteria for BFB were met.

All surrogate standard recoveries were within QC limits.

A Library Search against the NIST/EPA library was conducted on each of the samples and blanks for the OLC 2.1 VOA analysis. The 30 largest peaks, within 10% of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest Internal Standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates the presumptive evidence of a particular compound.

Site specific QC was performed on sample MRFA-INFLUENT as requested. All Matrix Spike/Matrix Spike Duplicates (MS/MSD) were within acceptable range with the exception of the MS recovery for Carbon Tetrachloride was outside of acceptable range high. The MSD was within range. The data was not significantly affected. The MS for Trichloroethene (TCE) was outside acceptable range high and the MSD for TCE was outside of acceptable range low. Matrix interference is suspected. Also, results are calculated from estimated hits in the field sample. The Relative Percent Differences between the MS/MSD were within limits with the exception of Carbon Tetrachloride and TCE. The variability in the results is attributed to the heterogeneous character of the sample. Recovery in the Laboratory Control Samples (LCS) for Carbon Tetrachloride and Trichloroethene were acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate. All QC outliers are "*" flagged. All Laboratory Control Sample recoveries were within limits.

Carbon Tetrachloride and Trichloroethene were detected in sample MRFA-INFLUENT outside the calibration range of the instrument and are flagged with an "E". The sample was reanalyzed at dilution to bring the over-range compounds within the calibration range of the instrument. Both sets of data are reported.

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

The Cooler Blank and Trip Blank associated with these samples were free of contamination with the exception of a low level hit of Acetone in the Cooler Blank.

All samples were analyzed within recommended 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

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG #: MRFA-INFLUENT
SUBMISSION R2842409
CLIENT: Shaw Environmental
CLIENT REP: Carlton Beechler
PROJECT: GE-MRFA PROJECT# 810066

BATCH COMPLETE: __yes_____
DISKETTE REQUESTED: Y___ N_X___
DATE: 2/22/08
CUSTODY SEAL: PRESENT/ABSENT: P
CHAIN OF CUSTODY: PRESENT/ABSENT: P

DATE REVISED:
DATE DUE: 3/19/08
PROTOCOL: CLP
SHIPPING No.:

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS AMPLE CONDITIO
1078633 QC	MRFA-INFLUENT	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078635	MRFA-EFFLUENT	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078639	MRFA-DUPE A	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078641	TRIP BLANK	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078643	COOLER BLANK	WATER	VOA (OLC 2.1)	2/22/2008	2/22/2008			

Columbia Analytical Services INC.
An Employee - Owned Company

ACCREDITED IN ACCORDANCE WITH nelac

Ethics Service Quality ACIL 2005 SEAL OF EXCELLENCE PROGRAM Environmental

ORGANIC QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).

Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is ≥ 100% difference for the detected concentrations between the two GC columns.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

* - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

Columbia Analytical Services, Inc.
An Employee - Owned Company
www.caslab.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

One Mustard St., Suite 250 • Rochester, NY 14609-0859 • (585) 288-5380 • 800-695-7222 x11 • FAX (585) 288-8475 PAGE 1 OF 1

SR #

CAS Contact

Project Name: GE-MRFA	Project Number: 810066
Project Manager: Brian Neumann	Report CC: Steve Meier, Judy Harry
Company/Address: Shaw Environmental, Inc 13 British American Blvd. Latham, NY 12110	
Phone #: (518) 783-1996	FAX#: (518) 783-8397
Sampler's Signature:	Sampler's Printed Name: Marc Flanagan

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	OLC 3.1 VOA							REMARKS/ ALTERNATE DESCRIPTION
MRFA - Influent	107863	2/21/08	925	GW	3								X							
MRFA - Influent (MS)	107863		930																	
MRFA - Influent (MSD)	107863		930																	
MRFA - Effluent	107864		935																	
MRFA - Dupe A	107865		-																	
Trip Blank	107864	-	-	-																
Cool - Blank	107863																			

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 24 hr _____ 48 hr _____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
_____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
_____ V. Speicalized Forms / Custom Report
Edata _____ Yes _____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #: 12842467

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature: Rachel Jones	Signature:	Signature:	Signature:	Signature:
Printed Name: Marc Flanagan	Printed Name: Rachel Jones	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: Shaw	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time: 2/21/08 / 1400	Date/Time: 2/22/08 945	Date/Time:	Date/Time:	Date/Time:	Date/Time:

SCOC-1102-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Cooler Receipt And Preservation Check Form

Project/Client Shaw Submission Number _____

Cooler received on 2/22/08 by: RG **COURIER:** CAS (UPS) FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	(YES)	NO			
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO			
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO			
4.	Did any VOA vials have significant air bubbles?	YES	(NO)	N/A		
5.	Were **Ice** or **Ice packs** present?	(YES)	NO			
6.	Where did the bottles originate?	(CAS/ROC), CLIENT				
7.	Temperature of cooler(s) upon receipt:	2.0°				
	Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 2/22/08 @ 955

Thermometer ID: 161 / (IR GUN#2) / IR GUN#3 Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: G 2/22/08

Cooler Breakdown: Date: 02/22/08 by: AM

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH				
~~≤2~~	~~HNO_3~~				
≤2	H_2SO_4				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-		
	HCl	*	*	903109	01/09

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: B72-9050

Other Comments:

PC Secondary Review: G 2/25/08

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078633 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8241.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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 UJ
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	U UJ
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	5	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	5	
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	31 ~~35~~	~~E~~
71-43-2	Benzene	1	U
~~79-01-6~~	~~Trichloroethene~~	54 ~~58~~	~~E~~
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078633 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8241.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRFA-INFL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078633 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8241.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFLDL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078633 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8254.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 2.5

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	2	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	5	D
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	31	D
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	54	D
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	2	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
1330-20-7	(m+p) Xylene	2	U
1330-20-7	o-Xylene	2	U
100-42-5	Styrene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
75-25-2	Bromoform	2	U
541-73-1	1,3-Dichlorobenzene	2	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFLDL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078633 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8254.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 2.5

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRFA-INFLDL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078633 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8254.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA EFFL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078635 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8240.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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	UUJ
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	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	0.4	J
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	0.7	J
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA EFFL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078635 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8240.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRFA EFFL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078635 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8240.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-DUPE A

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078639 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8243.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (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 UJ
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	U UJ
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	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	0.3	J
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	0.7	J
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-DUPE A

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078639 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8243.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MRFA-DUPE A

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078639 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8243.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078641 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8239.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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 UJ
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	U UJ
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078641 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8239.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078641 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8239.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

COOLER BLK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078643 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8255.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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 UJ
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	1	J J
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

COOLER BLK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078643 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8255.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COOLER BLK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1078643 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8255.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

	EPA SAMPLE NO.	SMC1 #	TOT OUT
01	LCS01	98	0
02	VBLK01	94	0
03	TRIP BLANK	97	0
04	MRFA EFFL	94	0
05	MRFA-INFL	94	0
06	MRFA-DUPE A	96	0
07	MRFA-INFLMS	102	0
08	MRFA-INFLMSD	100	0
09	LCS02	99	0
10	VBLK02	97	0
11	MRFA-INFLDL	99	0
12	COOLER BLK	99	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix Spike - EPA Sample No LCS01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	4.9	98	60 - 140
1,2-Dichloroethane	5.0	0.0	4.7	94	60 - 140
Carbon Tetrachloride	5.0	0.0	4.8	96	60 - 140
Benzene	5.0	0.0	4.8	96	60 - 140
Trichloroethene	5.0	0.0	4.8	96	60 - 140
1,2-Dichloropropane	5.0	0.0	4.9	98	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	4.9	98	60 - 140
1,1,2-Trichloroethane	5.0	0.0	4.8	96	60 - 140
Tetrachloroethene	5.0	0.0	5.0	100	60 - 140
1,2-Dibromoethane	5.0	0.0	4.8	96	60 - 140
Bromoform	5.0	0.0	5.2	104	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.1	102	60 - 140

COMMENTS:

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084946 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8236.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	
75-01-4	Vinyl Chloride	5	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	4	
75-69-4	Trichlorofluoromethane	5	
75-35-4	1,1-Dichloroethene	5	
67-64-1	Acetone	23	
75-15-0	Carbon Disulfide	23	
75-09-2	Methylene Chloride	5	
156-60-5	trans-1,2-Dichloroethene	5	
75-34-3	1,1-Dichloroethane	5	
156-59-2	cis-1,2-Dichloroethene	5	
78-93-3	2-Butanone	24	
74-97-5	Bromochloromethane	4	
67-66-3	Chloroform	5	
107-06-2	1,2-Dichloroethane	5	
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	5	
71-43-2	Benzene	5	
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	5	
10061-01-5	cis-1,3-Dichloropropene	5	
108-10-1	4-Methyl-2-Pentanone	25	
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	5	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	5	
591-78-6	2-Hexanone	24	
124-48-1	Dibromochloromethane	5	
106-93-4	1,2-Dibromoethane	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	
1330-20-7	(m+p) Xylene	10	
1330-20-7	o-Xylene	5	
100-42-5	Styrene	5	
79-34-5	1,1,2,2-Tetrachloroethane	5	
75-25-2	Bromoform	5	
541-73-1	1,3-Dichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084946 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8236.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	5	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	5	
87-61-6	1,2,3-Trichlorobenzene	5	

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix Spike - EPA Sample No LCS02

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	5.0	100	60 - 140
1,2-Dichloroethane	5.0	0.0	4.8	96	60 - 140
Carbon Tetrachloride	5.0	0.0	4.8	96	60 - 140
Benzene	5.0	0.0	4.7	94	60 - 140
Trichloroethene	5.0	0.0	4.7	94	60 - 140
1,2-Dichloropropane	5.0	0.0	4.7	94	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	4.8	96	60 - 140
1,1,2-Trichloroethane	5.0	0.0	4.9	98	60 - 140
Tetrachloroethene	5.0	0.0	4.8	96	60 - 140
1,2-Dibromoethane	5.0	0.0	4.9	98	60 - 140
Bromoform	5.0	0.0	5.4	108	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.0	100	60 - 140

COMMENTS:

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084979 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8250.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084979 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8250.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	4	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	5	
87-61-6	1,2,3-Trichlorobenzene	5	

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix Spike - EPA Sample No MRFA-INFL

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	5.2	104	60 - 140
1,2-Dichloroethane	5.0	0.0	5.0	100	60 - 140
Carbon Tetrachloride	5.0	35	43	160 *	60 - 140
Benzene	5.0	0.0	5.2	104	60 - 140
Trichloroethene	5.0	58	66	160 *	60 - 140
1,2-Dichloropropane	5.0	0.0	5.1	102	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	4.9	98	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.1	102	60 - 140
Tetrachloroethene	5.0	0.0	5.0	100	60 - 140
1,2-Dibromoethane	5.0	0.0	5.2	104	60 - 140
Bromoform	5.0	0.0	5.5	110	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.1	102	60 - 140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl Chloride	5.0	5.2	104	0	30	60 - 140
1,2-Dichloroethane	5.0	5.1	102	2	30	60 - 140
Carbon Tetrachloride	5.0	39	80	67 *	30	60 - 140
Benzene	5.0	5.1	102	2	30	60 - 140
Trichloroethene	5.0	57	0 *	200 *	30	60 - 140
1,2-Dichloropropane	5.0	5.2	104	2	30	60 - 140
cis-1,3-Dichloropropene	5.0	5.0	100	2	30	60 - 140
1,1,2-Trichloroethane	5.0	5.1	102	0	30	60 - 140
Tetrachloroethene	5.0	5.0	100	0	30	60 - 140
1,2-Dibromoethane	5.0	5.1	102	2	30	60 - 140
Bromoform	5.0	5.7	114	4	30	60 - 140
1,4-Dichlorobenzene	5.0	5.2	104	2	30	60 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 12 outside limits

Spike Recovery: 3 out of 24 outside limits

COMMENTS:

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFLMS

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084954 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8244.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFLMS

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084954 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8244.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	5	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	4	
87-61-6	1,2,3-Trichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFLMSD

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084956 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8245.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 3/1/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	5	
75-01-4	Vinyl Chloride	5	
74-83-9	Bromomethane	5	
75-00-3	Chloroethane	5	
75-69-4	Trichlorofluoromethane	5	
75-35-4	1,1-Dichloroethene	5	
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	5	
156-60-5	trans-1,2-Dichloroethene	5	
75-34-3	1,1-Dichloroethane	5	
156-59-2	cis-1,2-Dichloroethene	5	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	5	
67-66-3	Chloroform	10	
107-06-2	1,2-Dichloroethane	5	
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	39	E
71-43-2	Benzene	5	
79-01-6	Trichloroethene	57	E
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	5	
10061-01-5	cis-1,3-Dichloropropene	5	
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	5	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	5	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	6	
106-93-4	1,2-Dibromoethane	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	
1330-20-7	(m+p) Xylene	10	
1330-20-7	o-Xylene	5	
100-42-5	Styrene	5	
79-34-5	1,1,2,2-Tetrachloroethane	5	
75-25-2	Bromoform	6	
541-73-1	1,3-Dichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

MRFA-INFLMSD

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084956 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8245.D

Level: (low/med) LOW Date Received: 2/22/08

% Moisture: not dec. Date Analyzed: 3/1/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	5	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	4	
87-61-6	1,2,3-Trichlorobenzene	5	

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Lab File ID: V8238.D Lab Sample ID: 1084944 1.0

Date Analyzed: 2/29/08 Time Analyzed: 20:06

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS01	1084946 1.0	V8236.D	18:59
02	TRIP BLANK	1078641 1.0	V8239.D	20:42
03	MRFA EFFL	1078635 1.0	V8240.D	21:17
04	MRFA-INFL	1078633 1.0	V8241.D	21:53
05	MRFA-DUPE A	1078639 1.0	V8243.D	23:05
06	MRFA-INFLMS	1084954 1.0	V8244.D	23:40
07	MRFA-INFLMSD	1084956 1.0	V8245.D	0:16

COMMENTS

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084944 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8238.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084944 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8238.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084944 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8238.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 2/29/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Lab File ID: V8252.D Lab Sample ID: 1084978 1.0

Date Analyzed: 3/3/08 Time Analyzed: 13:12

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS02	1084979 1.0	V8250.D	12:01
02	MRFA-INFLDL	1078633 2.5	V8254.D	14:24
03	COOLER BLK	1078643 1.0	V8255.D	14:55

COMMENTS

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084978 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8252.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084978 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8252.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Matrix: (soil/water) WATER Lab Sample ID: 1084978 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V8252.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 3/3/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Lab File ID: V8228.D BFB Injection Date: 2/29/08

Instrument ID: GCMS#6 BFB Injection Time: 12:25

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.0
75	30.0 - 66.0% of mass 95	47.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	93.6
175	4.0 - 9.0% of mass 174	7.2 (7.7)1
176	93.0 - 101.0% of mass 174	91.6 (97.8)1
177	5.0 - 9.0% of mass 176	7.4 (8.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001 / 005	VSTD001 / 005	V8230.D	2/29/08	14:39
02	VSTD002 / 010	VSTD002 / 010	V8231.D	2/29/08	15:15
03	VSTD005 / 025	VSTD005 / 025	V8232.D	2/29/08	15:55
04	VSTD010 / 050	VSTD010 / 050	V8233.D	2/29/08	16:50
05	VSTD025 / 125	VSTD025 / 125	V8234.D	2/29/08	17:58
06	LCS01	1084946 1.0	V8236.D	2/29/08	18:59
07	VBLK01	1084944 1.0	V8238.D	2/29/08	20:06
08	TRIP BLANK	1078641 1.0	V8239.D	2/29/08	20:42
09	MRFA EFFL	1078635 1.0	V8240.D	2/29/08	21:17
10	MRFA-INFL	1078633 1.0	V8241.D	2/29/08	21:53
11	MRFA-DUPE A	1078639 1.0	V8243.D	2/29/08	23:05
12	MRFA-INFLMS	1084954 1.0	V8244.D	2/29/08	23:40
13	MRFA-INFLMSD	1084956 1.0	V8245.D	3/1/08	0:16

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Lab File ID: V8248.D BFB Injection Date: 3/3/08

Instrument ID: GCMS#6 BFB Injection Time: 10:28

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.7
75	30.0 - 66.0% of mass 95	47.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.8
173	Less than 2.0% of mass 174	0.2 (0.3)1
174	50.0 - 120.0% of mass 95	93.3
175	4.0 - 9.0% of mass 174	7.3 (7.8)1
176	93.0 - 101.0% of mass 174	90.6 (97.0)1
177	5.0 - 9.0% of mass 176	5.9 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD #2	VSTD #2	V8249.D	3/3/08	11:12
02	LCS02	1084979 1.0	V8250.D	3/3/08	12:01
03	VBLK02	1084978 1.0	V8252.D	3/3/08	13:12
04	MRFA-INFLDL	1078633 2.5	V8254.D	3/3/08	14:24
05	COOLER BLK	1078643 1.0	V8255.D	3/3/08	14:55

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: SDG No.: MRFA-INF

Lab File ID (Standard): V8249.D Date Analyzed: 3/3/08

Instrument ID: GCMS#6 Time Analyzed: 11:12

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	IS1 RT #	IS2 AREA #	IS2 RT #	IS3 AREA #	IS3 RT #
	12 HOUR STD	641788	5.73	531651	8.74	255079	10.81
	UPPER LIMIT	1283576	6.23	1063302	9.24	510158	11.31
	LOWER LIMIT	320894	5.23	265826	8.24	127540	10.31
	EPA SAMPLE NO.						
01	LCS02	650881	5.73	537663	8.74	250593	10.81
02	VBLK02	634020	5.73	534543	8.74	246421	10.81
03	MRFA-INFLDL	620463	5.73	525396	8.74	250995	10.81
04	COOLER BLK	600805	5.73	513719	8.74	242664	10.81

IS1 = 1,4-Difluorobenzene

IS2 = Chlorobenzene-d5

IS3 = Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-42409 SAS No.: _____ SDG No.: MRFA-INF

Lab File ID (Standard): V8232.D Date Analyzed: 2/29/08

Instrument ID: GCMS#6 Time Analyzed: 15:55

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	546364	5.73	462551	8.74	223267	10.81
	UPPER LIMIT	1092728	6.23	925102	9.24	446534	11.31
	LOWER LIMIT	273182	5.23	231276	8.24	111634	10.31
	EPA SAMPLE NO.						
01	LCS01	588637	5.73	493819	8.74	235901	10.81
02	VBLK01	577199	5.73	481083	8.74	225637	10.81
03	TRIP BLANK	566319	5.73	471227	8.74	227174	10.81
04	MRFA EFFL	571969	5.73	471626	8.74	221838	10.81
05	MRFA-INFL	562762	5.73	477222	8.74	226333	10.81
06	MRFA-DUPE A	550918	5.73	472831	8.74	224630	10.81
07	MRFA-INFLMS	562778	5.73	482220	8.74	233364	10.81
08	MRFA-INFLMSD	570220	5.73	491714	8.74	240203	10.81

IS1 = 1,4-Difluorobenzene

IS2 = Chlorobenzene-d5

IS3 = Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

APPENDIX B

LABORATORY DATA, GROUNDWATER SAMPLES (MAY 14 AND 15, 2008) AND LABORATORY DATA, INFLUENT/EFFLUENT WATER SAMPLES (MAY 14, 2008)

1 Mustard Street, Suite 250 Rochester, NY 14609-6925 (585) 288-5380 (585) 288-8475 fax

Columbia Analytical Services INC.
An Employee - Owned Company

June 17, 2008

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

Re: GE - MRFA
Submission # R2843894
SDG # MRFA-INFLUENT

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of seventeen water samples and one trip blank were received by our laboratory on May 15-16, 2008.

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

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

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

Carlton R. Beechler
Project Chemist

enc.

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

Columbia Analytical Services inc.

1 Mustard ST.
Suite 250
Rochester, NY 14609
(585) 288-5380

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Shaw Environmental
Project Reference: GE MRFA PROJECT #810066
Lab Submission # : R2843894
Project Manager : Carlton Beechler
Reported : 06/12/08

Report Contains a total of 96 pages

This package has been reviewed by Columbia Analytical Services' QA Department/Laboratory Director to comply with NELAC standards prior to report submittal.

CASE NARRATIVE

COMPANY: Shaw Environmental
GE MRFA Project #810066
SUBMISSION #: R2843894

Shaw samples were sampled on 5/14-15/08 and received at CAS on 5/15-16/08 in good condition and within 1-6 degrees C.

VOLATILE ORGANICS

Fifteen water samples and one trip blank were analyzed for Low Level Volatiles by OLC2.1 CLP methodology. A cooler blank was added to the SDG upon receipt.

Hits between the MDL and PQL are flagged with a "J" as estimated.

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

All internal standard areas were within QC limits.

All Tuning criteria for BFB were met.

All surrogate standard recoveries were within QC limits.

A Library Search against the NIST/EPA library was conducted on each of the samples and blanks for the OLC 2.1 VOA analysis. The 30 largest peaks, within 10% of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest Internal Standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates the presumptive evidence of a particular compound.

Site specific QC was performed on samples INFLUENT and M27D as requested. All Matrix Spike/Matrix Spike Duplicates (MS/MSD) were within acceptable range. The Relative Percent Differences between the MS/MSD were within limits. All Laboratory Control Sample recoveries were within limits.

Carbon Tetrachloride and Trichloroethene were detected in sample INFLUENT outside the calibration range of the instrument and are flagged with an "E". The sample was reanalyzed at dilution to bring the over-range compounds within the calibration range of the instrument. Both sets of data are reported.

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

The Cooler Blank and Trip Blanks associated with these samples were free of contamination with the exception of a low level hit of Acetone in the Trip Blank, and low level hits of Acetone, Chloroform, 1,2,4-Trichlorobenzene, Hexachlorobutadiene and 1,2,3-Trichlorobenzene in the Cooler Blank.

All samples were analyzed within CLP holding times.

No analytical or QC problems were encountered.

CASE NARRATIVE

COMPANY: Shaw Environmental
GE MRFA Project #810066
SUBMISSION #: R2843894

INORGANICS

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

Site specific QC was performed on sample M27D as requested. The Matrix Spike, Blank Spike and Laboratory Control Sample recoveries were within acceptable limits. The Relative Percent Difference (RPD) between the duplicate analysis was within limits.

Hits between the MDL and PQL are flagged with a "B" as estimated.

No 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:

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG#:1074297	BATCH COMPLETE: __yes_____	DATE REVISED:
SUBMISSION R2843894	DISKETTE REQUESTED: Y_X__ N____	DATE DUE: 6/6/08
CLIENT: Shaw Environmental	DATE: 5/23/08	PROTOCOL OLC2.1
CLIENT REP: Carlton Beechler	CUSTODY SEAL: PRESENT/ABSENT:	SHIPPING No.:
PROJECT: GE MRFA PROJECT #810066	CHAIN OF CUSTODY: PRESENT/ABSENT:	

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS AMPLE CONDITION
1100570	DUPE A	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100571QC	INFLUENT	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100572	EFFLUENT	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100573	M-29D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100574	M-24D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100575	M-11D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100576	M-33S	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100577	M-33D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100578	TRIP BLANK	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100579	COOLER BLANK	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100580	13D	WATER	CR,CR6	5/14/2008	5/15/2008			
1100581QC	M27D	WATER	OLC2.1VOA,CR,CR6	5/14/2008	5/15/2008			
1100582	14D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100709	DUPE B	WATER	CR,CR6	5/14/2008	5/15/2008			
1100936	M-25D	WATER	OLC2.1VOA	5/15/2008	5/16/2008			
1100937	4D	WATER	OLC2.1VOA	5/15/2008	5/16/2008			
1100940	DGC-3S	WATER	OLC2.1VOA	5/15/2008	5/16/2008			
1100941	DGC-4S	WATER	OLC2.1VOA	5/15/2008	5/16/2008			

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Ethics Service Quality ACIL 2005 SEAL OF EXCELLENCE PROGRAM Environmental

ORGANIC QUALIFIERS

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds, or when the data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit and greater than the MDL. This flag is also used for DoD instead of "P" as indicated below.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search.

P - This flag is used for a pesticide/Aroclor target analyte when there is a greater than 40% (25% for CLP) difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P" ("J" for DoD).

Q - for DoD only – indicates a pesticide/Aroclor target is not confirmed. This flag is used when there is ≥ 100% difference for the detected concentrations between the two GC columns.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - As specified in Case Narrative.

* - This flag identifies compounds associated with a quality control parameter which exceeds laboratory limits.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

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INORGANIC QUALIFIERS

C (Concentration) qualifier –

- B - if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). This qualifier may also be used to indicate that there was contamination above the reporting limit in the associated blank. See Narrative for details.
- U - if the analyte was analyzed for, but not detected

Q qualifier - Specified entries and their meanings are as follows:

- D - Spike was diluted out
- E - The reported value is estimated because the serial dilution did not meet criteria.
- J - Estimated Value
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA Analysis is out of control limits (85-115), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

M (Method) qualifier:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "PM" for ICP when Microwave Digestion is used
- "AM" for Flame AA when Microwave Digestion is used
- "FM" for Furnace M when Microwave Digestion is used
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AF" for Automated Cold Vapor Atomic Fluorescence Spectrometry
- "CA" for Midi-Distillation Spectrophotometric
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- " " where no data has been entered
- "NR" if the analyte is not required to be analyzed.

CAS/Rochester Lab ID # for State Certifications

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Massachusetts ID # M-NY032
Navy Facilities Engineering Service Center Approved
Nebraska Accredited
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID # 68-786
Rhode Island ID # 158
West Virginia ID # 292

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SR #

CAS Contact

Project Name: GE MRFA	Project Number: 810066
Project Manager: Brian Neumann	Report CC: Steve Meier, Judy Harry
Company/Address: Shaw Environmental, Inc 13 British American Blvd Latham, NY 12110	
Phone #: (518) 783-1996	FAX#: (518) 783-8397
Sampler's Signature:	Sampler's Printed Name: Marc Flanagan

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP OLC 2.1	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
Dupe A		5/14/08	-	GW	3	X							
Influent			940										
Influent (MS/MSD)			942										
Effluent			945										
M-29D			1055										
M-24D			1125										
M-11D			1155										
M-33S			1233										
M-33D			1255										
Trip Blank		-	-										

SPECIAL INSTRUCTIONS/COMMENTS
Metals
CLP OLC 2.1 VOAs plus Hexachlorobutadiene, 1,2,3 trichlorobenzene and trichlorofluoromethane

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____
CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Marc Flanagan	Printed Name: Amy Hentschke	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Shaw	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 5/14/08 1600	Date/Time: 5/15/08 1000	Date/Time	Date/Time	Date/Time	Date/Time

SCOC-1102-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

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SR #

CAS Contact

Project Name	Project Number
Project Manager	Report CC
Company/Address: SAME	
Phone #	FAX#
Sampler's Signature	Sampler's Printed Name: Marc Flanagan

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1 | 2

NUMBER OF CONTAINERS

- GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP *QC 2.1
- GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP
- GC VOA's ☐ 8021 ☐ 601/602
- PESTICIDES ☐ 8081 ☐ 608 ☐ CLP
- PCB's ☐ 8082 ☐ 608 ☐ CLP
- METALS, TOTAL (List in comments below)
- METALS, DISSOLVED (List in comments below)
- Cr
- Cr6

Preservative Key
0. NONE
1. HCl
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260 624 CLP *QC 2.1	GC/MS SVOA's 8270 625 CLP	GC VOA's 8021 601/602	PESTICIDES 8081 608 CLP	PCB's 8082 608 CLP	METALS, TOTAL	METALS, DISSOLVED	Cr	Cr6	REMARKS/ ALTERNATE DESCRIPTION
14D		5/14/08	1405	GW	3	X							X	X	
13D		↓	1435	↓	↓	↓	(1X)						X	X	No VOAs here
M27D		↓	1510	↓	↓	X							X	X	
M27D (MS/MSD)													X	X	
DUPEB													X	X	

SPECIAL INSTRUCTIONS/COMMENTS

Metals * CLP OLC 2.1 VOAs plus Hexachlorobutadiene, 1,2,3 trichlorobenzene, and trichlorofluoromethane

DUPE B added to COC as per Marc Flanagan on 5/23/08

See QAPP ☐

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

TURNAROUND REQUIREMENTS
- ____ RUSH (SURCHARGES APPLY)
- ____ 24 hr ____ 48 hr ____ 5 day
- X STANDARD
- REQUESTED FAX DATE: _____
- REQUESTED REPORT DATE: _____

REPORT REQUIREMENTS
- ____ I. Results Only
- X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
- ____ III. Results + QC and Calibration Summaries
- ____ IV. Data Validation Report with Raw Data
- ____ V. Specialized Forms / Custom Report
- Edata ____ Yes ____ No

INVOICE INFORMATION
- PO#
- BILL TO:
- SUBMISSION #:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature: Amy Hentschke	Signature	Signature	Signature	Signature
Printed Name: Marc Flanagan	Printed Name: Amy Hentschke	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Shaw	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 5/15/08 1000	Date/Time	Date/Time	Date/Time	Date/Time

Reid
Kelly M. Cook
5/15/08 1000

Cooler Receipt And Preservation Check Form

Project/Client IT/Shaw Submission Number RQ-43894.

Cooler received on 5/15/08 by: KMC **COURIER:** CAS (UPS) FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	(YES)	NO
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO
4.	Did any VOA vials have significant* air bubbles?	YES	(NO) N/A
5.	Were **Ice** or **Ice packs** present?	(YES)	NO
6.	Where did the bottles originate?		(CAS/ROC) CLIENT

7. Temperature of cooler(s) upon receipt:	3°C				
Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 5/15/08 1005

Thermometer ID: 161 / IR GUN#2 / (IR GUN#3) Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____

PC Secondary Review: JMS 5/15/08

Cooler Breakdown: Date: 5-15-08 by: KE

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp
≥12	NaOH				
~~≤2~~	~~HNO_3~~	✓		BDB2683B	03/09
≤2	H_2SO_4				
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid	
	$Na_2S_2O_3$	-	-		
	Zn Aceta	-	-		
	HCl	*	*	C08A13	04/09

Sample ID	Vol. Added	Lot Added	Final pH

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 8-037-001, 030360

Other Comments:

PC Secondary Review: JMS 6/10/08 *significant air bubbles are greater than 5-6 mm

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SR #

CAS Contact

Project Name: GE MRFA	Project Number: 810066
Project Manager: Brian Neumann	Report CC: Steve Meier, Judy Harry
Company/Address: Shaw Environmental, Inc 13 British American Blvd Latham, NY 12110	
Phone #: (518) 783-1996	FAX#: (518) 783-8397
Sampler's Signature:	Sampler's Printed Name: Marc Flanagan

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP *OLC 2.1	GC/MS SVOA's ☐ 8270 ☐ 625 ☐ CLP	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608 ☐ CLP	PCB's ☐ 8082 ☐ 608 ☐ CLP	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
M-25D		5-15-08	830	GW	3	X							
4D			915										
DGC-3S	asper	1020	950										
DGC-4S	marc	950	1000										
	Flanagan JMF 5/16/08												

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals CLP OLC 2.1 VOAs plus Hexachlorobutadiene 1,2,3 trichlorobenzene and trichloro fluoromethane

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 24 hr ____ 48 hr ____ 5 day
X STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
X II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
____ V. Specialized Forms / Custom Report
Edata ____ Yes ____ No

INVOICE INFORMATION
PO#
BILL TO:
SUBMISSION #:

SAMPLE RECEIPT: CONDITION/COOLER TEMP: _____ CUSTODY SEALS: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Marc Flanagan	Printed Name: Gregory O. Esmerian	Printed Name	Printed Name	Printed Name	Printed Name
Firm: Shaw	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 5/15/08 1600	Date/Time: 5-15-08 10:05	Date/Time	Date/Time	Date/Time	Date/Time

SCOC-1102-08

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

Cooler Receipt And Preservation Check Form

Project/Client Shaw Submission Number R2-438924.

Cooler received on 5-15-08 by: KE **COURIER:** CAS (UPS) FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES (NO)
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did any VOA vials have significant* air bubbles? YES (NO) N/A
5. Were (**Ice** or) **Ice packs** present? (YES) NO
6. Where did the bottles originate? (CAS/ROC), CLIENT
7. Temperature of cooler(s) upon receipt: 5° ___ ___ ___ ___

Is the temperature within 0° - 6° C?: (Yes) Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 5-15-08 @ 10:27

Thermometer ID: 161 / IR GUN#2 / (IR GUN#3) Reading From: Temp Blank / (Sample Bottle)

If out of Temperature, note packing/ice condition, Client Approval to Run Samples:___

PC Secondary Review: ___

Cooler Breakdown: Date : 5-16-08 by: KE

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: ___

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	$Na_2S_2O_3$	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	C08A13 / AAG58604	03/09 / 10/07 *				

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: ___

Bottle lot numbers: 8-037-001

Other Comments:

* M-25D, DGC-3S – Vials preserved with HCl that expired 10/07.
KE 5-16-08

PC Secondary Review: JWW 6/10/08 *significant air bubbles are greater than 5-6 mm

H:\SMODOCS\Cooler Receipt 2.doc

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

	EPA SAMPLE NO.	SMC1 #	TOT OUT
01	LCS01	101	0
02	VBLK01	90	0
03	EFFLUENT	91	0
04	M-29D	88	0
05	M-24D	90	0
06	INFLUENT	90	0
07	INFLUENTMS	101	0
08	INFLUENTMSD	102	0
09	LCS02	102	0
10	VBLK02	91	0
11	M-11D	89	0
12	M-33S	90	0
13	M-33D	90	0
14	DUPE A	93	0
15	TRIP BLANK	91	0
16	M27D	88	0
17	14D	90	0
18	4D	93	0
19	DGC-3S	90	0
20	DGC-4S	93	0
21	M-25D	90	0
22	INFLUENTDL	91	0
23	DGC-3SMS	102	0
24	DGC-3SMSD	102	0
25	COOLER BLK	90	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix Spike - EPA Sample No LCS01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	5.6	112	60 - 140
1,2-Dichloroethane	5.0	0.0	5.3	106	60 - 140
Carbon Tetrachloride	5.0	0.0	5.0	100	60 - 140
Benzene	5.0	0.0	4.9	98	60 - 140
Trichloroethene	5.0	0.0	4.9	98	60 - 140
1,2-Dichloropropane	5.0	0.0	5.2	104	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	5.1	102	60 - 140
1,1,2-Trichloroethane	5.0	0.0	4.7	94	60 - 140
Tetrachloroethene	5.0	0.0	5.1	102	60 - 140
1,2-Dibromoethane	5.0	0.0	4.8	96	60 - 140
Bromoform	5.0	0.0	5.3	106	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.2	104	60 - 140

COMMENTS:

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107806 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9655.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

74-87-3	Chloromethane	6	
75-01-4	Vinyl Chloride	6	
74-83-9	Bromomethane	6	
75-00-3	Chloroethane	5	
75-69-4	Trichlorofluoromethane	5	
75-35-4	1,1-Dichloroethene	5	
67-64-1	Acetone	24	
75-15-0	Carbon Disulfide	24	
75-09-2	Methylene Chloride	5	
156-60-5	trans-1,2-Dichloroethene	5	
75-34-3	1,1-Dichloroethane	5	
156-59-2	cis-1,2-Dichloroethene	5	
78-93-3	2-Butanone	25	
74-97-5	Bromochloromethane	5	
67-66-3	Chloroform	5	
107-06-2	1,2-Dichloroethane	5	
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	5	
71-43-2	Benzene	5	
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	5	
10061-01-5	cis-1,3-Dichloropropene	5	
108-10-1	4-Methyl-2-Pentanone	25	
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	5	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	5	
591-78-6	2-Hexanone	24	
124-48-1	Dibromochloromethane	5	
106-93-4	1,2-Dibromoethane	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	
1330-20-7	(m+p) Xylene	10	
1330-20-7	o-Xylene	5	
100-42-5	Styrene	5	
79-34-5	1,1,2,2-Tetrachloroethane	5	
75-25-2	Bromoform	5	
541-73-1	1,3-Dichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107806 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9655.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	5	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	5	
87-61-6	1,2,3-Trichlorobenzene	5	

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix Spike - EPA Sample No LCS02

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	5.4	108	60 - 140
1,2-Dichloroethane	5.0	0.0	4.8	96	60 - 140
Carbon Tetrachloride	5.0	0.0	4.8	96	60 - 140
Benzene	5.0	0.0	4.8	96	60 - 140
Trichloroethene	5.0	0.0	4.9	98	60 - 140
1,2-Dichloropropane	5.0	0.0	4.9	98	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	4.8	96	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.0	100	60 - 140
Tetrachloroethene	5.0	0.0	4.8	96	60 - 140
1,2-Dibromoethane	5.0	0.0	4.8	96	60 - 140
Bromoform	5.0	0.0	4.8	96	60 - 140
1,4-Dichlorobenzene	5.0	0.0	4.8	96	60 - 140

COMMENTS:

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108028 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9668.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

LCS02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108028 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9668.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	4	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	5	
87-61-6	1,2,3-Trichlorobenzene	5	

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix Spike - EPA Sample No INFLUENT

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	6.2	124	60 - 140
1,2-Dichloroethane	5.0	0.0	5.6	112	60 - 140
Carbon Tetrachloride	5.0	27	32	100	60 - 140
Benzene	5.0	0.0	5.3	106	60 - 140
Trichloroethene	5.0	46	50	80	60 - 140
1,2-Dichloropropane	5.0	0.0	5.2	104	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	5.1	102	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.2	104	60 - 140
Tetrachloroethene	5.0	0.0	5.2	104	60 - 140
1,2-Dibromoethane	5.0	0.0	5.0	100	60 - 140
Bromoform	5.0	0.0	5.2	104	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.1	102	60 - 140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl Chloride	5.0	6.2	124	0	30	60 - 140
1,2-Dichloroethane	5.0	5.3	106	6	30	60 - 140
Carbon Tetrachloride	5.0	31	80	22	30	60 - 140
Benzene	5.0	5.1	102	4	30	60 - 140
Trichloroethene	5.0	49	60	29	30	60 - 140
1,2-Dichloropropane	5.0	5.1	102	2	30	60 - 140
cis-1,3-Dichloropropene	5.0	4.8	96	6	30	60 - 140
1,1,2-Trichloroethane	5.0	4.7	94	10	30	60 - 140
Tetrachloroethene	5.0	4.9	98	6	30	60 - 140
1,2-Dibromoethane	5.0	4.7	94	6	30	60 - 140
Bromoform	5.0	5.2	104	0	30	60 - 140
1,4-Dichlorobenzene	5.0	5.3	106	4	30	60 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS:

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENTMS

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107807 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9662.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	7	
75-01-4	Vinyl Chloride	6	
74-83-9	Bromomethane	5	
75-00-3	Chloroethane	5	
75-69-4	Trichlorofluoromethane	5	
75-35-4	1,1-Dichloroethene	6	
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	5	
156-60-5	trans-1,2-Dichloroethene	5	
75-34-3	1,1-Dichloroethane	6	
156-59-2	cis-1,2-Dichloroethene	5	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	5	
67-66-3	Chloroform	10	
107-06-2	1,2-Dichloroethane	6	
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	32	E
71-43-2	Benzene	5	
79-01-6	Trichloroethene	50	E
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	5	
10061-01-5	cis-1,3-Dichloropropene	5	
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	5	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	5	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	
106-93-4	1,2-Dibromoethane	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	
1330-20-7	(m+p) Xylene	10	
1330-20-7	o-Xylene	5	
100-42-5	Styrene	5	
79-34-5	1,1,2,2-Tetrachloroethane	5	
75-25-2	Bromoform	5	
541-73-1	1,3-Dichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENTMS

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107807 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9662.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	5	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	5	
87-61-6	1,2,3-Trichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENTMSD

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107808 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9663.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	6	
75-01-4	Vinyl Chloride	6	
74-83-9	Bromomethane	6	
75-00-3	Chloroethane	6	
75-69-4	Trichlorofluoromethane	5	
75-35-4	1,1-Dichloroethene	5	
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	5	
156-60-5	trans-1,2-Dichloroethene	5	
75-34-3	1,1-Dichloroethane	5	
156-59-2	cis-1,2-Dichloroethene	6	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	5	
67-66-3	Chloroform	10	
107-06-2	1,2-Dichloroethane	5	
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon Tetrachloride	31	E
71-43-2	Benzene	5	
79-01-6	Trichloroethene	49	E
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	5	
10061-01-5	cis-1,3-Dichloropropene	5	
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	5	
79-00-5	1,1,2-Trichloroethane	5	
127-18-4	Tetrachloroethene	5	
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	
106-93-4	1,2-Dibromoethane	5	
108-90-7	Chlorobenzene	5	
100-41-4	Ethylbenzene	5	
1330-20-7	(m+p) Xylene	10	
1330-20-7	o-Xylene	5	
100-42-5	Styrene	5	
79-34-5	1,1,2,2-Tetrachloroethane	5	
75-25-2	Bromoform	5	
541-73-1	1,3-Dichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENTMSD

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107808 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9663.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	6	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	5	
87-61-6	1,2,3-Trichlorobenzene	5	

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix Spike - EPA Sample No DGC-3S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	5.6	112	60 - 140
1,2-Dichloroethane	5.0	0.0	5.0	100	60 - 140
Carbon Tetrachloride	5.0	0.0	5.1	102	60 - 140
Benzene	5.0	0.0	5.1	102	60 - 140
Trichloroethene	5.0	0.0	4.8	96	60 - 140
1,2-Dichloropropane	5.0	0.0	5.1	102	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	5.1	102	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.1	102	60 - 140
Tetrachloroethene	5.0	0.0	4.9	98	60 - 140
1,2-Dibromoethane	5.0	0.0	5.1	102	60 - 140
Bromoform	5.0	0.0	4.7	94	60 - 140
1,4-Dichlorobenzene	5.0	0.0	4.8	96	60 - 140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Vinyl Chloride	5.0	5.5	110	2	30	60 - 140
1,2-Dichloroethane	5.0	5.0	100	0	30	60 - 140
Carbon Tetrachloride	5.0	5.1	102	0	30	60 - 140
Benzene	5.0	4.9	98	4	30	60 - 140
Trichloroethene	5.0	4.8	96	0	30	60 - 140
1,2-Dichloropropane	5.0	5.1	102	0	30	60 - 140
cis-1,3-Dichloropropene	5.0	5.0	100	2	30	60 - 140
1,1,2-Trichloroethane	5.0	5.0	100	2	30	60 - 140
Tetrachloroethene	5.0	4.9	98	0	30	60 - 140
1,2-Dibromoethane	5.0	5.1	102	0	30	60 - 140
Bromoform	5.0	4.5	90	4	30	60 - 140
1,4-Dichlorobenzene	5.0	4.8	96	0	30	60 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS:

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-3SMS

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108029 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9684.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-3SMS

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108029 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9684.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	5	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	4	
87-61-6	1,2,3-Trichlorobenzene	5	

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-3SMSD

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108030 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9685.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-3SMSD

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108030 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9685.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	5	
96-12-8	1,2-Dibromo-3-chloropropane	4	
120-82-1	1,2,4-Trichlorobenzene	5	
87-68-3	Hexachlorobutadiene	5	
87-61-6	1,2,3-Trichlorobenzene	5	

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 06/12/08
CAS Order # : 1100581 - M27D
Client : Shaw Environmental
GE MRFA PROJECT #810066
Reported Units: MG/L
Run # : 161114

	PRECISION			ACCURACY			
	ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
HEXAVALENT CHROMIUM	0.0100 U	0.0100 U	NC	0.106	0.100	106	85 - 115

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Lab File ID: V9657.D Lab Sample ID: 1107805 1.0

Date Analyzed: 5/22/08 Time Analyzed: 22:11

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS01	1107806 1.0	V9655.D	20:59
02	EFFLUENT	1100572 1.0	V9658.D	22:47
03	M-29D	1100573 2.0	V9659.D	23:24
04	M-24D	1100574 1.0	V9660.D	0:00
05	INFLUENT	1100571 1.0	V9661.D	0:36
06	INFLUENTMS	1107807 1.0	V9662.D	1:12
07	INFLUENTMSD	1107808 1.0	V9663.D	1:48

COMMENTS

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107805 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9657.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107805 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9657.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1107805 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9657.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

4A

EPA SAMPLE NO.

VOLATILE METHOD BLANK SUMMARY

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Lab File ID: V9670.D Lab Sample ID: 1108027 1.0

Date Analyzed: 5/23/08 Time Analyzed: 5:57

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS#6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCS02	1108028 1.0	V9668.D	4:46
02	M-11D	1100575 1.0	V9672.D	7:09
03	M-33S	1100576 1.0	V9673.D	7:44
04	M-33D	1100577 1.0	V9674.D	8:20
05	DUPE A	1100570 1.0	V9675.D	9:07
06	TRIP BLANK	1100578 1.0	V9676.D	9:37
07	M27D	1100581 1.0	V9677.D	10:41
08	14D	1100582 1.0	V9678.D	11:17
09	4D	1100937 1.0	V9679.D	11:48
10	DGC-3S	1100940 1.0	V9680.D	12:22
11	DGC-4S	1100941 1.0	V9681.D	12:54
12	M-25D	1100936 2.5	V9682.D	13:25
13	INFLUENTDL	1100571 2.5	V9683.D	13:56
14	DGC-3SMS	1108029 1.0	V9684.D	14:30
15	DGC-3SMSD	1108030 1.0	V9685.D	14:57
16	COOLER BLK	1100579 1.0	V9686.D	15:27

COMMENTS

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108027 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9670.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108027 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9670.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1108027 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9670.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Lab File ID: V9644.D BFB Injection Date: 5/22/08

Instrument ID: GCMS#6 BFB Injection Time: 14:00

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.0
75	30.0 - 66.0% of mass 95	44.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	82.7
175	4.0 - 9.0% of mass 174	5.4 (6.5)1
176	93.0 - 101.0% of mass 174	78.0 (94.3)1
177	5.0 - 9.0% of mass 176	5.4 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD001 / 005	VSTD001 / 005	V9646.D	5/22/08	15:27
02	VSTD002 / 010	VSTD002 / 010	V9647.D	5/22/08	16:02
03	VSTD010 / 050	VSTD010 / 050	V9649.D	5/22/08	17:28
04	VSTD025 / 125	VSTD025 / 125	V9650.D	5/22/08	18:04
05	VSTD005 / 025	VSTD005 / 025	V9654.D	5/22/08	20:22
06	LCS01	1107806 1.0	V9655.D	5/22/08	20:59
07	VBLK01	1107805 1.0	V9657.D	5/22/08	22:11
08	EFFLUENT	1100572 1.0	V9658.D	5/22/08	22:47
09	M-29D	1100573 2.0	V9659.D	5/22/08	23:24
10	M-24D	1100574 1.0	V9660.D	5/23/08	0:00
11	INFLUENT	1100571 1.0	V9661.D	5/23/08	0:36
12	INFLUENTMS	1107807 1.0	V9662.D	5/23/08	1:12
13	INFLUENTMSD	1107808 1.0	V9663.D	5/23/08	1:48

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Lab File ID: V9666.D BFB Injection Date: 5/23/08

Instrument ID: GCMS#6 BFB Injection Time: 3:35

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.4
75	30.0 - 66.0% of mass 95	47.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	94.8
175	4.0 - 9.0% of mass 174	6.9 (7.3)1
176	93.0 - 101.0% of mass 174	91.4 (96.4)1
177	5.0 - 9.0% of mass 176	6.5 (7.1)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD #2	VSTD #2	V9667.D	5/23/08	4:10
02	LCS02	1108028 1.0	V9668.D	5/23/08	4:46
03	VBLK02	1108027 1.0	V9670.D	5/23/08	5:57
04	M-11D	1100575 1.0	V9672.D	5/23/08	7:09
05	M-33S	1100576 1.0	V9673.D	5/23/08	7:44
06	M-33D	1100577 1.0	V9674.D	5/23/08	8:20
07	DUPE A	1100570 1.0	V9675.D	5/23/08	9:07
08	TRIP BLANK	1100578 1.0	V9676.D	5/23/08	9:37
09	M27D	1100581 1.0	V9677.D	5/23/08	10:41
10	14D	1100582 1.0	V9678.D	5/23/08	11:17
11	4D	1100937 1.0	V9679.D	5/23/08	11:48
12	DGC-3S	1100940 1.0	V9680.D	5/23/08	12:22
13	DGC-4S	1100941 1.0	V9681.D	5/23/08	12:54
14	M-25D	1100936 2.5	V9682.D	5/23/08	13:25
15	INFLUENTDL	1100571 2.5	V9683.D	5/23/08	13:56
16	DGC-3SMS	1108029 1.0	V9684.D	5/23/08	14:30
17	DGC-3SMSD	1108030 1.0	V9685.D	5/23/08	14:57
18	COOLER BLK	1100579 1.0	V9686.D	5/23/08	15:27

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Lab File ID (Standard): V9654.D Date Analyzed: 5/22/08

Instrument ID: GCMS#6 Time Analyzed: 20:22

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1 AREA	#	IS1 RT	#	IS2 AREA	#	IS2 RT	#	IS3 AREA	#	IS3 RT	#
	12 HOUR STD	707817		5.74		566903		8.74		299494		10.81	
	UPPER LIMIT	1415634		6.24		1133806		9.24		598988		11.31	
	LOWER LIMIT	353909		5.24		283452		8.24		149747		10.31	
	EPA SAMPLE NO.												
01	LCS01	713547		5.74		585879		8.74		301463		10.81	
02	VBLK01	684925		5.74		560653		8.74		259953		10.81	
03	EFFLUENT	679364		5.74		562327		8.74		263356		10.81	
04	M-29D	680535		5.74		556370		8.74		255187		10.81	
05	M-24D	665702		5.74		549194		8.74		256403		10.81	
06	INFLUENT	662890		5.73		551898		8.74		257242		10.81	
07	INFLUENTMS	683292		5.73		564684		8.74		299817		10.81	
08	INFLUENTMSD	690676		5.73		588072		8.74		297291		10.81	

IS1 = 1,4-Difluorobenzene

IS2 = Chlorobenzene-d5

IS3 = Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Lab File ID (Standard): V9667.D Date Analyzed: 5/23/08

Instrument ID: GCMS#6 Time Analyzed: 4:10

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	714223	5.74	596782	8.74	294650	10.81
	UPPER LIMIT	1428446	6.24	1193564	9.24	589300	11.31
	LOWER LIMIT	357112	5.24	298391	8.24	147325	10.31
	EPA SAMPLE NO.						
01	LCS02	709517	5.73	591882	8.74	297682	10.81
02	VBLK02	696438	5.73	564727	8.74	264820	10.81
03	M-11D	670139	5.74	562316	8.74	255004	10.81
04	M-33S	661407	5.73	553020	8.74	251967	10.81
05	M-33D	664094	5.74	545004	8.74	259981	10.81
06	DUPE A	662635	5.73	555807	8.74	254010	10.81
07	TRIP BLANK	640475	5.74	532859	8.74	241981	10.81
08	M27D	655979	5.73	538089	8.74	246075	10.81
09	14D	648246	5.73	547324	8.74	247951	10.81
10	4D	652335	5.74	540630	8.74	261229	10.81
11	DGC-3S	650863	5.73	533022	8.74	246333	10.81
12	DGC-4S	644593	5.74	541100	8.74	251756	10.81
13	M-25D	657123	5.74	546568	8.74	252557	10.81
14	INFLUENTDL	665074	5.74	548646	8.74	259480	10.81
15	DGC-3SMS	669422	5.74	563710	8.74	292337	10.81
16	DGC-3SMSD	682051	5.73	577355	8.74	299904	10.81
17	COOLER BLK	695003	5.74	561395	8.74	267512	10.81

IS1 = 1,4-Difluorobenzene

IS2 = Chlorobenzene-d5

IS3 = Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2843894
Client: Shaw Environmental
GE MRFA PROJECT #810066

BLANK SPIKES

	BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
HEXAVALENT CHROMIUM	0.0100 U	0.101	0.100	101	90 - 109	161114	MG/L

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUPE A

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100570 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9675.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	3	J U
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	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	0.1	J
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	0.3	J
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DUPE A

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100570 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9675.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DUPE A

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100570 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9675.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENT

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100571 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9661.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		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	1	~~U~~ UJ
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	5	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	4	U
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	25 ~~27~~	E
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	42 ~~46~~	E
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENT

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100571 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9661.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

INFLUENT

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100571 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9661.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENTDL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100571 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9683.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 2.5

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	3	JD UJ
75-15-0	Carbon Disulfide	2	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	4	D
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	25	D
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	42	D
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	2	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
1330-20-7	(m+p) Xylene	2	U
1330-20-7	o-Xylene	2	U
100-42-5	Styrene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
75-25-2	Bromoform	2	U
541-73-1	1,3-Dichlorobenzene	2	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

INFLUENTDL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100571 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9683.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

INFLUENTDL

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100571 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9683.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100572 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9658.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	2	BU J
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	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	0.2	J
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	0.3	J
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

EFFLUENT

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100572 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9658.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EFFLUENT

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100572 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9658.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-29D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100573 2.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9659.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	4	U J
75-15-0	Carbon Disulfide	2	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-2	cis-1,2-Dichloroethene	0.3	J
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	4	
56-23-5	Carbon Tetrachloride	33	
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	2	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
1330-20-7	(m+p) Xylene	2	U
1330-20-7	o-Xylene	2	U
100-42-5	Styrene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
75-25-2	Bromoform	2	U
541-73-1	1,3-Dichlorobenzene	2	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-29D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100573 2.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9659.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-29D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100573 2.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9659.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/22/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-24D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100574 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9660.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U UJ
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	5	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1 ~~0.4~~	J U
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	9	
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-24D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100574 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9660.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-24D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100574 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9660.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-11D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100575 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9672.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		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	1	JU
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	5	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	2	U
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	11	
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-11D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100575 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9672.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-11D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100575 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9672.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-33S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100576 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9673.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	1	8 UJ
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-33S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100576 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9673.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-33S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100576 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9673.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-33D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100577 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9674.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	5	U
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-33D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100577 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9674.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-33D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100577 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9674.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100578 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9676.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	2	J
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100578 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9676.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100578 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9676.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

COOLER BLK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100579 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9686.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	0.9	J
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	5	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	0.1	J
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

COOLER BLK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100579 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9686.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	0.2	J
87-68-3	Hexachlorobutadiene	0.5	J
87-61-6	1,2,3-Trichlorobenzene	0.2	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

COOLER BLK

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100579 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9686.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M27D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100581 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9677.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	0.6	J
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	1	SW
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	5	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	~~0.7~~ 1	SW
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	11	
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	13	
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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M27D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100581 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9677.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M27D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100581 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9677.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

14D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100582 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9678.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	1	3U5
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

14D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100582 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9678.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

14D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100582 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9678.D

Level: (low/med) LOW Date Received: 5/15/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-25D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100936 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9682.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	4	5 UJ
75-15-0	Carbon Disulfide	2	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
156-59-2	cis-1,2-Dichloroethene	0.9	J
78-93-3	2-Butanone	12	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	2	U
56-23-5	Carbon Tetrachloride	56	
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	52	
78-87-5	1,2-Dichloropropane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
127-18-4	Tetrachloroethene	2	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
1330-20-7	(m+p) Xylene	2	U
1330-20-7	o-Xylene	2	U
100-42-5	Styrene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
75-25-2	Bromoform	2	U
541-73-1	1,3-Dichlorobenzene	2	U

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

M-25D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100936 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9682.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-25D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100936 2.5

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9682.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

4D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100937 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9679.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	2	U
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

4D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100937 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9679.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND		Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

4D

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100937 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9679.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-3S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100940 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9680.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	2	UJ
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-3S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: _____ SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100940 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9680.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. _____ Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DGC-3S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100940 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9680.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-4S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100941 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9681.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (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	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	2	U
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	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

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

DGC-4S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100941 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9681.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

DGC-4S

Lab Name: CAS/ROCH Contract: IT-Latham

Lab Code: 10145 Case No.: R8-43894 SAS No.: SDG No.: 1074297

Matrix: (soil/water) WATER Lab Sample ID: 1100941 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: V9681.D

Level: (low/med) LOW Date Received: 5/16/08

% Moisture: not dec. Date Analyzed: 5/23/08

GC Column: DB-VRX ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

13D

Contract: R2843894

Lab Code: Case No.: SAS No.: SDG NO.: 1074297

Matrix (soil/water): WATER Lab Sample ID: 1100580

Level (low/med): LOW Date Received: 05/15/08

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	13.2			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUPE B

Contract: R2843894

Lab Code: Case No.: SAS No.: SDG NO.: 1074297

Matrix (soil/water): WATER Lab Sample ID: 1100709

Level (low/med): LOW Date Received: 05/15/08

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	22.0			P

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

Columbia Analytical Services

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

M27D

Contract: R2843894

Lab Code: Case No.: SAS No.: SDG NO.: 1074297

Matrix (soil/water): WATER Lab Sample ID: 1100581

Level (low/med): LOW Date Received: 05/15/08

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.0	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

COLUMBIA ANALYTICAL SERVICES

Reported: 06/12/08

Shaw Environmental
Project Reference: GE MRFA PROJECT #810066
Client Sample ID : 13D

Date Sampled : 05/14/08 14:35 **Order #:** 1100580 **Sample Matrix:** WATER
Date Received: 05/15/08 **Submission #:** R2843894

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
HEXAVALENT CHROMIUM	7196A	0.0100	0.0100 U	MG/L	05/15/08	10:39	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/12/08

Shaw Environmental
Project Reference: GE MRFA PROJECT #810066
Client Sample ID : M27D

Date Sampled : 05/14/08 15:10 Order #: 1100581 Sample Matrix: WATER
Date Received: 05/15/08 Submission #: R2843894

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
HEXAVALENT CHROMIUM	7196A	0.0100	0.0100 U	MG/L	05/15/08	10:39	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/12/08

Shaw Environmental
Project Reference: GE MRFA PROJECT #810066
Client Sample ID : DUPE B

Date Sampled : 05/14/08 Order #: 1100709 Sample Matrix: WATER
Date Received: 05/15/08 Submission #: R2843894

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
HEXAVALENT CHROMIUM	7196A	0.0100	0.0100 U	MG/L	05/15/08	10:39	1.0

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

Proj. _____
Proj # _____
File Code: _____

July 1, 2008

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

RE: Validation of MRFA Malta Site Data Packages
CAS Sub Nos. R2842409 and R2843894

Dear Mr. Flanagan:

Review has been completed for the data packages generated by Columbia Analytical Services (CAS), pertaining to aqueous samples collected between 2/21/08 and 5/15/08 at the MRFA Malta Site. Eighteen samples (including two field duplicates), cooler blanks, and trip blanks were processed for site-specific low level volatiles. One of these, an additional sample, 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 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.

Data Completeness

The summary package for package R2843894 does not include report or QC forms relating to the metals analyses. The full data package is complete.

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 trip and cooler blanks from the May 2008 event both show low-level contamination of acetone. That cooler blank also shows low level detections of chloroform (also detected in some of the project samples) and three other analytes (not detected in project samples). The detected acetone and chloroform results for the samples collected in May 2008 are therefore considered external contamination, and edited to reflect non-detection ("U").

Matrix spikes (MS and MSD) of MRFA-Influent (2/08), Influent (5/08), and DGC-3S (5/08) show acceptable accuracy and precision.

Volatile field duplicate correlations for MRFA-Effluent (2/08) and Effluent (5/08) are well within validation guidelines.

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

Results for bromomethane in the samples collected February 2008 are qualified as estimated ("UJ") due to outlying initial calibration standard linearity (26%RSD).

Samples M-25D and M-29D were analyzed only at dilution due to anticipated elevated target analyte concentrations. The sample report forms should have reflected the dilution factors (of 2.5 and 2.0, respectively).

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 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/lab 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 within guidelines.

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

Chain-of-Custody

Two of the samples were preserved with expired hydrochloric acid. The pHs were acceptable at sample receipt, and there is therefore no perceived effect on the data.

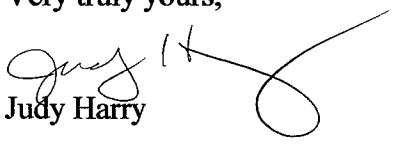
The collection times for two samples were reverved; this was resolved at sample receipt.

DUPE B was added to the chain-of-custody at sample receipt.

Preservation was not noted on the custody, but was indicated on the laboratory login forms.

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.

UJ - 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

SDG #: MRFA-INFLUENT	BATCH COMPLETE: __yes_____	DATE REVISED:
SUBMISSION R2842409	DISKETTE REQUESTED: Y___ N_X___	DATE DUE: 3/19/08
CLIENT: Shaw Environmental	DATE: 2/22/08	PROTOCOL: CLP
CLIENT REP: Carlton Beechler	CUSTODY SEAL: PRESENT/ABSENT: P	SHIPPING No.:
PROJECT: GE-MRFA PROJECT# 810066	CHAIN OF CUSTODY: PRESENT/ABSENT: P	

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS AMPLE CONDITIOI
1078633 QC	MRFA-INFLUENT	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078635	MRFA-EFFLUENT	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078639	MRFA-DUPE A	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078641	TRIP BLANK	WATER	VOA (OLC 2.1)	2/21/2008	2/22/2008			
1078643	COOLER BLANK	WATER	VOA (OLC 2.1)	2/22/2008	2/22/2008			

CAS ASP/CLP BATCHING FORM / LOGIN SHEET

SDG#:1074297	BATCH COMPLETE: __yes_____	DATE REVISED:
SUBMISSION R2843894	DISKETTE REQUESTED: Y_X__ N____	DATE DUE: 6/6/08
CLIENT: Shaw Environmental	DATE: 5/23/08	PROTOCOL OLC2.1
CLIENT REP: Carlton Beechler	CUSTODY SEAL: PRESENT/ABSENT:	SHIPPING No.:
PROJECT: GE MRFA PROJECT #810066	CHAIN OF CUSTODY: PRESENT/ABSENT:	

CAS JOB #	CLIENT/EPA ID	MATRIX	REQUESTED PARAMETERS	DATE SAMPLED	DATE RECEIVED	pH (SOLIDS)	% SOLIDS	REMARKS SAMPLE CONDITION
1100570	DUPE A	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100571QC	INFLUENT	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100572	EFFLUENT	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100573	M-29D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100574	M-24D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100575	M-11D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100576	M-33S	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100577	M-33D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100578	TRIP BLANK	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100579	COOLER BLANK	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100580	13D	WATER	CR,CR6	5/14/2008	5/15/2008			
1100581QC	M27D	WATER	OLC2.1VOA,CR,CR6	5/14/2008	5/15/2008			
1100582	14D	WATER	OLC2.1VOA	5/14/2008	5/15/2008			
1100709	DUPE B	WATER	CR,CR6	5/14/2008	5/15/2008			
1100936	M-25D	WATER	OLC2.1VOA	5/15/2008	5/16/2008			
1100937	4D	WATER	OLC2.1VOA	5/15/2008	5/16/2008			
1100940	DGC-3S	WATER	OLC2.1VOA	5/15/2008	5/16/2008			
1100941	DGC-4S	WATER	OLC2.1VOA	5/15/2008	5/16/2008			

1100570

CASE NARRATIVE

COMPANY: Shaw Environmental
GE MRFA Project #810066 SUBMISSION #: R2842409

Shaw samples were sampled on 2/21/08 and received at CAS on 2/22/08 in good condition.

VOLATILE ORGANICS

Three water samples, one cooler blank and one trip blank were analyzed for Low Level Volatiles by OLC2.1 CLP methodology.

Hits between the MDL and PQL are flagged with a "J" as estimated.

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

All internal standard areas were within QC limits.

All Tuning criteria for BFB were met.

All surrogate standard recoveries were within QC limits.

A Library Search against the NIST/EPA library was conducted on each of the samples and blanks for the OLC 2.1 VOA analysis. The 30 largest peaks, within 10% of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest Internal Standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates the presumptive evidence of a particular compound.

Site specific QC was performed on sample MRFA-INFLUENT as requested. All Matrix Spike/Matrix Spike Duplicates (MS/MSD) were within acceptable range with the exception of the MS recovery for Carbon Tetrachloride was outside of acceptable range high. The MSD was within range. The data was not significantly affected. The MS for Trichloroethene (TCE) was outside acceptable range high and the MSD for TCE was outside of acceptable range low. Matrix interference is suspected. Also, results are calculated from estimated hits in the field sample. The Relative Percent Differences between the MS/MSD were within limits with the exception of Carbon Tetrachloride and TCE. The variability in the results is attributed to the heterogeneous character of the sample. Recovery in the Laboratory Control Samples (LCS) for Carbon Tetrachloride and Trichloroethene were acceptable, which indicates the analytical batch was in control. No further corrective action was appropriate. All QC outliers are "*" flagged. All Laboratory Control Sample recoveries were within limits.

Carbon Tetrachloride and Trichloroethene were detected in sample MRFA-INFLUENT outside the calibration range of the instrument and are flagged with an "E". The sample was reanalyzed at dilution to bring the over-range compounds within the calibration range of the instrument. Both sets of data are reported.

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

The Cooler Blank and Trip Blank associated with these samples were free of contamination with the exception of a low level hit of Acetone in the Cooler Blank.

All samples were analyzed within recommended 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

CASE NARRATIVE

COMPANY: Shaw Environmental
GE MRFA Project #810066
SUBMISSION #: R2843894

Shaw samples were sampled on 5/14-15/08 and received at CAS on 5/15-16/08 in good condition and within 1-6 degrees C.

VOLATILE ORGANICS

Fifteen water samples and one trip blank were analyzed for Low Level Volatiles by OLC2.1 CLP methodology. A cooler blank was added to the SDG upon receipt.

Hits between the MDL and PQL are flagged with a "J" as estimated.

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

All internal standard areas were within QC limits.

All Tuning criteria for BFB were met.

All surrogate standard recoveries were within QC limits.

A Library Search against the NIST/EPA library was conducted on each of the samples and blanks for the OLC 2.1 VOA analysis. The 30 largest peaks, within 10% of the nearest Internal Standard, were searched. A summary of detected peaks is included following the Target data. Any analytes detected are quantitated based on the closest Internal Standard and are reported flagged with a "J" as estimated. The flag "N" on a TIC compound indicates the presumptive evidence of a particular compound.

Site specific QC was performed on samples INFLUENT and M27D as requested. All Matrix Spike/Matrix Spike Duplicates (MS/MSD) were within acceptable range. The Relative Percent Differences between the MS/MSD were within limits. All Laboratory Control Sample recoveries were within limits.

Carbon Tetrachloride and Trichloroethene were detected in sample INFLUENT outside the calibration range of the instrument and are flagged with an "E". The sample was reanalyzed at dilution to bring the over-range compounds within the calibration range of the instrument. Both sets of data are reported.

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

The Cooler Blank and Trip Blanks associated with these samples were free of contamination with the exception of a low level hit of Acetone in the Trip Blank, and low level hits of Acetone, Chloroform, 1,2,4-Trichlorobenzene, Hexachlorobutadiene and 1,2,3-Trichlorobenzene in the Cooler Blank.

All samples were analyzed within CLP holding times.

No analytical or QC problems were encountered.

APPENDIX D

AIR STRIPPER FLOW DATA

AIR STRIPPER FLOW DATA

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
12/4/2007	Total	840	120	0.58	0.08	0.67
12/5/2007	Total	1,030	150	0.72	0.10	0.82
12/6/2007	Total	750	90	0.52	0.06	0.58
12/7/2007	Total	950	90	0.66	0.06	0.72
12/8/2007	Total	860	90	0.60	0.06	0.66
12/9/2007	Total	760	110	0.53	0.08	0.60
12/10/2007	Total	770	120	0.53	0.08	0.62
12/11/2007	Total	770	120	0.53	0.08	0.62
12/12/2007	Total	940	140	0.65	0.10	0.75
12/13/2007	Total	940	150	0.65	0.10	0.76
12/14/2007	Total	860	120	0.60	0.08	0.68
12/15/2007	Total	840	120	0.58	0.08	0.67
12/16/2007	Total	840	140	0.58	0.10	0.68
12/17/2007	Total	910	150	0.63	0.10	0.74
12/18/2007	Total	980	170	0.68	0.12	0.80
12/19/2007	Total	950	170	0.66	0.12	0.78
12/20/2007	Total	820	160	0.57	0.11	0.68
12/21/2007	Total	910	170	0.63	0.12	0.75
12/22/2007	Total	910	180	0.63	0.13	0.76
12/23/2007	Total	660	120	0.46	0.08	0.54
12/24/2007	Total	670	130	0.47	0.09	0.56
12/25/2007	Total	750	130	0.52	0.09	0.61
12/26/2007	Total	670	120	0.47	0.08	0.55
12/27/2007	Total	850	150	0.59	0.10	0.69
12/28/2007	Total	850	150	0.59	0.10	0.69
12/29/2007	Total	750	140	0.52	0.10	0.62
12/30/2007	Total	680	120	0.47	0.08	0.56
12/31/2007	Total	760	130	0.53	0.09	0.62
1/1/2008	Total	690	100	0.48	0.07	0.55
1/2/2008	Total	770	130	0.53	0.09	0.63
1/3/2008	Total	860	140	0.60	0.10	0.69
1/4/2008	Total	770	120	0.53	0.08	0.62
1/5/2008	Total	550	90	0.38	0.06	0.44
1/6/2008	Total	600	100	0.42	0.07	0.49
1/7/2008	Total	540	80	0.38	0.06	0.43
1/8/2008	Total	730	120	0.51	0.08	0.59
1/9/2008	Total	830	140	0.58	0.10	0.67
1/10/2008	Total	830	130	0.58	0.09	0.67
1/11/2008	Total	890	130	0.62	0.09	0.71
1/12/2008	Total	780	120	0.54	0.08	0.63
1/13/2008	Total	650	110	0.45	0.08	0.53
1/14/2008	Total	830	130	0.58	0.09	0.67
1/15/2008	Total	840	130	0.58	0.09	0.67
1/16/2008	Total	920	150	0.64	0.10	0.74
1/17/2008	Total	740	120	0.51	0.08	0.60
1/18/2008	Total	920	160	0.64	0.11	0.75
1/19/2008	Total	750	120	0.52	0.08	0.60
1/20/2008	Total	650	100	0.45	0.07	0.52
1/21/2008	Total	760	110	0.53	0.08	0.60
1/22/2008	Total	860	80	0.60	0.06	0.65

AIR STRIPPER FLOW DATA

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
1/23/2008	Total	760	90	0.53	0.06	0.59
1/24/2008	Total	860	120	0.60	0.08	0.68
1/25/2008	Total	840	150	0.58	0.10	0.69
1/26/2008	Total	1,020	180	0.71	0.13	0.83
1/27/2008	Total	640	110	0.44	0.08	0.52
1/28/2008	Total	560	90	0.39	0.06	0.45
1/29/2008	Total	840	140	0.58	0.10	0.68
1/30/2008	Total	830	140	0.58	0.10	0.67
1/31/2008	Total	980	170	0.68	0.12	0.80
2/1/2008	Total	790	120	0.55	0.08	0.63
2/2/2008	Total	840	130	0.58	0.09	0.67
2/3/2008	Total	750	110	0.52	0.08	0.60
2/4/2008	Total	750	110	0.52	0.08	0.60
2/5/2008	Total	850	120	0.59	0.08	0.67
2/6/2008	Total	840	130	0.58	0.09	0.67
2/7/2008	Total	1,040	140	0.72	0.10	0.82
2/8/2008	Total	960	110	0.67	0.08	0.74
2/9/2008	Total	1,150	120	0.80	0.08	0.88
2/10/2008	Total	960	100	0.67	0.07	0.74
2/11/2008	Total	950	100	0.66	0.07	0.73
2/12/2008	Total	1,160	130	0.81	0.09	0.90
2/13/2008	Total	1,050	110	0.73	0.08	0.81
2/14/2008	Total	950	120	0.66	0.08	0.74
2/15/2008	Total	960	100	0.67	0.07	0.74
2/16/2008	Total	950	120	0.66	0.08	0.74
2/17/2008	Total	950	120	0.66	0.08	0.74
2/18/2008	Total	870	100	0.60	0.07	0.67
2/19/2008	Total	1,040	130	0.72	0.09	0.81
2/20/2008	Total	1,050	130	0.73	0.09	0.82
2/21/2008	Total	1,070	130	0.74	0.09	0.83
2/22/2008	Total	6,860	60	4.76	0.04	4.81
2/23/2008	Total	10,310	0	7.16	0.00	7.16
2/24/2008	Total	10,290	0	7.15	0.00	7.15
2/25/2008	Total	10,360	0	7.19	0.00	7.19
2/26/2008	Total	10,400	1,040	7.22	0.72	7.94
2/27/2008	Total	10,380	1,190	7.21	0.83	8.03
2/28/2008	Total	10,350	1,250	7.19	0.87	8.06
2/29/2008	Total	4,950	600	3.44	0.42	3.85
3/1/2008	Total	60	0	0.04	0.00	0.04
3/2/2008	Total	820	10	0.57	0.01	0.58
3/3/2008	Total	1,080	0	0.75	0.00	0.75
3/4/2008	Total	860	0	0.60	0.00	0.60
3/5/2008	Total	1,150	0	0.80	0.00	0.80
3/6/2008	Total	1,080	0	0.75	0.00	0.75
3/7/2008	Total	1,100	0	0.76	0.00	0.76
3/8/2008	Total	1,120	0	0.78	0.00	0.78
3/9/2008	Total	950	0	0.66	0.00	0.66
3/10/2008	Total	1,120	0	0.78	0.00	0.78
3/11/2008	Total	1,020	0	0.71	0.00	0.71
3/12/2008	Total	1,010	0	0.70	0.00	0.70
3/13/2008	Total	910	0	0.63	0.00	0.63

AIR STRIPPER FLOW DATA

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
3/14/2008	Total	850	0	0.59	0.00	0.59
3/15/2008	Total	1,080	0	0.75	0.00	0.75
3/16/2008	Total	960	0	0.67	0.00	0.67
3/17/2008	Total	1,060	0	0.74	0.00	0.74
3/18/2008	Total	1,280	0	0.89	0.00	0.89
3/19/2008	Total	1,070	0	0.74	0.00	0.74
3/20/2008	Total	640	0	0.44	0.00	0.44
3/21/2008	Total	1,870	0	1.30	0.00	1.30
3/22/2008	Total	960	0	0.67	0.00	0.67
3/23/2008	Total	960	0	0.67	0.00	0.67
3/24/2008	Total	1,030	0	0.72	0.00	0.72
3/25/2008	Total	1,190	0	0.83	0.00	0.83
3/26/2008	Total	1,120	0	0.78	0.00	0.78
3/27/2008	Total	1,110	0	0.77	0.00	0.77
3/28/2008	Total	880	0	0.61	0.00	0.61
3/29/2008	Total	1,240	0	0.86	0.00	0.86
3/30/2008	Total	1,030	0	0.72	0.00	0.72
3/31/2008	Total	960	0	0.67	0.00	0.67
4/1/2008	Total	1,180	0	0.82	0.00	0.82
4/2/2008	Total	1,110	0	0.77	0.00	0.77
4/3/2008	Total	1,230	0	0.85	0.00	0.85
4/4/2008	Total	10	0	0.01	0.00	0.01
4/5/2008	Total	0	0	0.00	0.00	0.00
4/6/2008	Total	0	0	0.00	0.00	0.00
4/7/2008	Total	0	0	0.00	0.00	0.00
4/8/2008	Total	0	0	0.00	0.00	0.00
4/9/2008	Total	0	0	0.00	0.00	0.00
4/10/2008	Total	0	0	0.00	0.00	0.00
4/11/2008	Total	0	0	0.00	0.00	0.00
4/12/2008	Total	0	0	0.00	0.00	0.00
4/13/2008	Total	0	0	0.00	0.00	0.00
4/14/2008	Total	0	0	0.00	0.00	0.00
4/15/2008	Total	10	0	0.01	0.00	0.01
4/16/2008	Total	0	0	0.00	0.00	0.00
4/17/2008	Total	0	0	0.00	0.00	0.00
4/18/2008	Total	10	0	0.01	0.00	0.01
4/19/2008	Total	0	0	0.00	0.00	0.00
4/20/2008	Total	0	0	0.00	0.00	0.00
4/21/2008	Total	0	0	0.00	0.00	0.00
4/22/2008	Total	0	0	0.00	0.00	0.00
4/23/2008	Total	0	0	0.00	0.00	0.00
4/24/2008	Total	0	0	0.00	0.00	0.00
4/25/2008	Total	20	0	0.01	0.00	0.01
4/26/2008	Total	0	0	0.00	0.00	0.00
4/27/2008	Total	0	0	0.00	0.00	0.00
4/28/2008	Total	0	0	0.00	0.00	0.00
4/29/2008	Total	0	0	0.00	0.00	0.00
4/30/2008	Total	0	0	0.00	0.00	0.00
5/1/2008	Total	0	0	0.00	0.00	0.00
5/2/2008	Total	6,270	0	4.35	0.00	4.35
5/3/2008	Total	9,860	0	6.85	0.00	6.85

AIR STRIPPER FLOW DATA

Date		Well #2 Flow (gal)	Well #1 Flow (gal)	Well #2 Average (gpm)	Well #1 Average (gpm)	Total Daily Average Flow (gpm)
5/4/2008	Total	9,890	0	6.87	0.00	6.87
5/5/2008	Total	9,260	0	6.43	0.00	6.43
5/6/2008	Total	0	0	0.00	0.00	0.00
5/7/2008	Total	0	0	0.00	0.00	0.00
5/8/2008	Total	1,970	0	1.37	0.00	1.37
5/9/2008	Total	1,850	0	1.28	0.00	1.28
5/10/2008	Total	0	0	0.00	0.00	0.00
5/11/2008	Total	0	0	0.00	0.00	0.00
5/12/2008	Total	4,640	0	3.22	0.00	3.22
5/13/2008	Total	0	0	0.00	0.00	0.00
5/14/2008	Total	0	0	0.00	0.00	0.00
5/15/2008	Total	1,140	0	0.79	0.00	0.79
5/16/2008	Total	7,710	0	5.35	0.00	5.35
5/17/2008	Total	9,960	0	6.92	0.00	6.92
5/18/2008	Total	1,500	0	1.04	0.00	1.04
5/19/2008	Total	1,090	0	0.76	0.00	0.76
5/20/2008	Total	1,140	0	0.79	0.00	0.79
5/21/2008	Total	1,040	0	0.72	0.00	0.72
5/22/2008	Total	1,210	0	0.84	0.00	0.84
5/23/2008	Total	1,090	0	0.76	0.00	0.76
5/24/2008	Total	1,330	0	0.92	0.00	0.92
5/25/2008	Total	860	0	0.60	0.00	0.60
5/26/2008	Total	1,090	0	0.76	0.00	0.76
5/27/2008	Total	980	0	0.68	0.00	0.68
5/28/2008	Total	1,330	0	0.92	0.00	0.92
5/29/2008	Total	1,260	0	0.88	0.00	0.88
5/30/2008	Total	990	0	0.69	0.00	0.69
5/31/2008	Total	1,100	0	0.76	0.00	0.76
6/1/2008	Total	1,030	0	0.72	0.00	0.72
6/2/2008	Total	1,030	0	0.72	0.00	0.72
6/3/2008	Total	980	0	0.68	0.00	0.68
6/4/2008	Total	1,200	0	0.83	0.00	0.83
6/5/2008	Total	1,140	0	0.79	0.00	0.79
6/6/2008	Total	680	0	0.47	0.00	0.47
6/7/2008	Total	2,960	0	2.06	0.00	2.06
6/8/2008	Total	0	0	0.00	0.00	0.00
6/9/2008	Total	0	0	0.00	0.00	0.00
6/10/2008	Total	3,270	0	2.27	0.00	2.27
6/11/2008	Total	0	0	0.00	0.00	0.00
6/12/2008	Total	0	0	0.00	0.00	0.00
6/13/2008	Total	4,350	0	3.02	0.00	3.02
6/14/2008	Total	0	0	0.00	0.00	0.00
6/15/2008	Total	0	0	0.00	0.00	0.00
6/16/2008	Total	0	0	0.00	0.00	0.00
6/17/2008	Total	2,690	0	1.87	0.00	1.87
6/18/2008	Total	5,660	0	3.93	0.00	3.93
6/19/2008	Total	0	0	0.00	0.00	0.00
6/20/2008	Total	0	0	0.00	0.00	0.00
6/21/2008	Total	0	0	0.00	0.00	0.00
6/22/2008	Total	0	0	0.00	0.00	0.00
6/23/2008	Total	0	0	0.00	0.00	0.00
6/24/2008	Total	0	0	0.00	0.00	0.00
6/25/2008	Total	7,630	0	5.30	0.00	5.30
6/26/2008	Total	9,780	0	6.79	0.00	6.79
6/27/2008	Total	9,830	0	6.83	0.00	6.83
6/28/2008	Total	2,930	0	2.03	0.00	2.03
6/29/2008	Total	0	0	0.00	0.00	0.00
6/30/2008	Total	0	0	0.00	0.00	0.00
Grand Total		**310,050**	**14,180**	**1.025**	**0.047**	**1.072**