

**SEMI-ANNUAL O&M REPORT
REMEDIAL WORK ELEMENTS I, II AND IV
REPORTING PERIOD DECEMBER 24, 2004 THROUGH JUNE 28, 2005**

***Malta Rocket Fuel Area Site
Malta, New York***

July 28, 2005

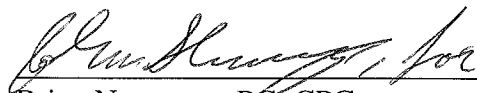
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CERTIFICATION: This document has been reviewed and is prepared in accordance with the contract documents.


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1.0 INTRODUCTION

This operations and maintenance (O&M) report documents on going 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 in accordance with previously referenced documents, for the period from December 24, 2004 through June 28, 2005.

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 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 26, February 28, March 31, April 13, May 25, and June 28, 2005.

The groundwater treatment system is comprised of a packed tower air stripper. System influent and effluent samples were collected during the February 28, 2005 and May 24, 2005 site visits to document adherence to treatment system discharge objectives. Analytical results from these sample events, including validated analytical results and chain of custody forms are provided in **Appendix A**. The validation summary for samples is included in **Appendix C**.

During the reporting period, recovery wells RW-1D and RW-2D operated at instantaneous flow rates of approximately 5.4 and 6.1 gallons per minute (gpm), respectively, yielding a total instantaneous flow of approximately 11.5 gpm. However, recovery well RW-1D experienced occasional problems during the latter portion of the reporting period that prevented the recovery pump from operating. During those periods, RW-2D continued to operate and the total instantaneous system flow rate was approximately 6.1 gpm.

Review of the analytical results for influent and effluent treatment system samples collected in February 2005 and May 2005 confirm that during the reporting period, effluent water quality met all 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 is not in need of 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 majority of alarm conditions 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 Malta site. The power failures result in brief interruptions in the delivery of electrical power to the system and are not known to cause significant disruption to the performance of the treatment system. No operator intervention at the Site was required to clear the alarm conditions identified during the reporting period. 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 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 was 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. The system was found to be in good working order during each of the monthly site visits.

2.2.1 Recovery Well Pump Inspection

Recovery well pumps were inspected during the May 25, 2005 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 was 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.

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 biological growth was observed on the pump intake. Water and a cloth were used to wipe the growth off the intake. No other problems 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. Leaks within the vault were not observed.

2.2.2 100,000 Gallon Reservoir Inspection

The annual inspection of the 100,000 gallon reservoir was performed on May 25, 2005. One centrifugal pump was utilized to reduce the level of water in the reservoir to allow Shaw personnel access to the interior. A dedicated suction hose was utilized to avoid possible contamination of the water supply. The reservoir level was reduced by approximately five feet before Shaw personnel entered the interior of the structure. All confined space entry procedures, including air monitoring and the use of retrieval equipment, were followed for the duration of the inspection.

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 types of buildup or growth from biological activity. The standpipe was observed to be in good condition.

2.2.3 Air Stripper Tower Inspection

Shaw utilized a boom lift bucket truck to access the top section of the air stripper tower on May 25, 2005. 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. Packing was discolored, but no evidence of precipitate accumulation or clogging was observed.

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 24, 2004 to June 28, 2005 are as follows:

Well RW-1D: 1.920 gpm

Well RW-2D: 3.733 gpm

System Avg: 5.653 gpm

Average daily water flow data as recorded by the on-site data logger are provided in **Appendix E**. Information obtained from the data logger indicates an average daily water flow rate of 5.677 gpm for the reporting period. The average water flow rate calculated from field observations (5.653) is very similar to the average daily water flow rate calculated from the data logger (5.677), confirming the data logger's accuracy and usefulness in verifying field observations.

2.3.2 Blower Air Pressure

Measurements of the air stripper blower back pressure were recorded on a weekly basis via RTU monitoring and during monthly O&M site visits. Readings collected during monthly O&M site visits from the pressure gauge installed to monitor the air stripper back pressure are provided in **Table 3**. Pressure readings ranged from 2.5 to 3.05 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 28 and May 24, 2005 and analyzed by Columbia Analytical Laboratories, Inc., 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 28 and May 24, 2005 samples are provided in **Appendix A**, respectively. All validation was performed by Data Validation Services, Incorporated 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 were non detectable for carbon tetrachloride for the both monitoring events conducted during this reporting period. The system effluent sampling results were non detectable for trichloroethene (TCE) for the May monitoring event, however, TCE was detected at an estimated concentration of 0.2 µg/l during the February monitoring event. The February TCE result was qualified by the laboratory because the observed concentration was less than the 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 28, 2005	13	< 1.0	5
	May 24, 2005	12	< 1.0	5
TCE	February 28, 2005	15	0.2 J	5
	May 24, 2005	14	< 1.0	5

Chloroform was detected at a concentration of 2 µg/l in the air stripper influent samples collected during the February 28, 2005 and May 24, 2005 sampling events. However, due to the low level detection of chloroform in the associated cooler and or trip blanks, the detections of that compound in the influent samples were edited by the data validator as non detection at the contract required detection limit. The air stripper influent chloroform concentrations are similar to the chloroform air stripper influent concentrations observed during the previous reporting period. Chloroform was below detection limits in the air stripper effluent samples collected

during both monitoring events. The drinking water system influent and effluent sample results for chloroform are summarized below.

Based upon analytical data collected during this reporting period, the drinking water system's removal efficiency was greater than 98% for all volatile organic analytes.

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

3.1 Sample Collection

In accordance with the *Operations and Maintenance Manual for Remedial Work Element II - Ground Water, ERM Northeast, Inc., December 11, 1997, (O&M-GW)* and *Addendum No. 1, January 31, 2005*, unfiltered groundwater samples were collected on May 24, 2005 from the Early Warning Monitoring System (EWMS) 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**). Two blind duplicate samples, DUPA and DUP B, were collected from wells 4D and 13D, respectively and one trip blank were obtained and analyzed.

With the exception of monitoring well 13D, samples from all monitoring wells and all surface water locations were analyzed for volatile organic compounds (VOCs) by USEPA Method OLC-02 by Columbia Analytical Services, Inc. in Rochester, New York. Samples from wells 13D and M-27D were also analyzed for unfiltered total matrix chromium following CLP procedures and unfiltered hexavalent chromium by SW-846 Method 7196 (*Test Methods for Evaluating Solid Waste*, 3rd Edition, November 1986).

Results of the May 2005 semi-annual EWMS sampling event are summarized in **Table 5** and 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, 8 and 9**.

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 analyses collected at wells 13D and M-27D show concentrations of 78.3 µg/l and 1.7 µg/l, respectively. The unfiltered total chromium concentration of 78.3 µg/l from well 13D was the only result in exceedance of the New York

State Ground Water Standard (NYSGWS) of 50 µg/l. The total chromium result from the previous sample event at well 13D was 4.5 µg/l in November 2004.

Analytical results showed no detectable concentrations of hexavalent chromium at the detection limit of 10 µg/l for the groundwater samples collected during the May monitoring event. The NYSGWS for hexavalent chromium is 50 µg/l.

3.3 VOC Analytical Results

Carbon tetrachloride was detected in wells M-25D, M-29D, and 27D at concentrations of 81 µg/l, 38 µg/l and 21 µg/l, respectively. Carbon tetrachloride was also detected in wells 11D and M-24D at concentrations of 13 µg/l and 10 µg/l, respectively. All other water sample locations were non-detect for carbon tetrachloride during the reporting period. The time vs. concentration plot for carbon tetrachloride in well M-27D is presented in **Figure 2**.

Chloroform was detected in wells M-25D, M-29D and 11D at concentrations of 8.0 µg/l, 4.0 µg/l and 4.0 µg/l, respectively. Chloroform was also detected in wells M-27D at a concentration of 1.9 µg/l and in well M-24D at an estimated concentration of 0.6 µg/l. However, due to the low level detection of chloroform in the associated cooler blank, the detections of that compound in wells M-24D and M-27D were edited by the data validator as non detection at the contract required detection limit. Chloroform was not detected at the other sampling locations during this reporting period.

TCE was detected in wells M-25D, M-27D and M-29D at concentrations of 35 µg/l, 18 µg/l and 14 µg/l, respectively. TCE was also detected at an estimated concentration of 0.8 µg/l in well 11D, but was not detected at the remainder of the monitoring well locations during this reporting period. Trichlorofluoromethane was not detected in any of the wells during the May 2005 monitoring event.

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, there were no observed concentrations of TCE in 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 groundwater sampling activities and annual environmental easement restriction interviews with property owner representatives during the October semi-annual reporting period. With the exception of 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

With the exception of operational issues associated with recovery well RW-1D, the drinking water treatment system is operating effectively. The treatment equipment will continue to be monitored as necessary to ensure continued operation of all components and to maintain a reliable source of water for the Test Station. All of the effluent samples collected for performance monitoring and analyzed during the current period revealed concentrations below project discharge objectives.

5.2 EWMS

Based on the review of the analytical results from water samples collected during this reporting period, groundwater from the MRFA Site is not impacting the Luther Forest well field or the water supply wells located to the north of the Site. The analytical results from this reporting period are summarized as follows:

- Total chromium was detected at monitoring wells 13D and M-27D at concentrations of 78.3 µg/l and 1.7 µg/l, respectively.
- Hexavalent chromium was not detected at the monitoring wells during the May 2005 monitoring event.
- With the exception of monitoring wells M-25D, M-29D, M-27D, 11D and 24D, with concentrations of 81 µg/l, 38 µg/l, 21 µg/l, 13 µg/l and 10 µg/l, respectively, carbon tetrachloride was not detected or was present below the method reporting limit at all of the wells.
- Chloroform was detected in wells M-25D, M-29D and 11D at concentrations of 8.0 µg/l, 4.0 µg/l and 4.0 µg/l, respectively. Chloroform was also detected in wells M-27D at a concentration of 1.9 µg/l and in well M-24D at an estimated concentration of 0.6 µg/l. Chloroform was not detected at the other sampling locations during this reporting period.
- TCE was not detected at any of the wells, with the exception of wells M-25D (35 µg/l), M-27D (18 µg/l), M-29D (14 µg/l), and 11D (estimated concentration of 0.8 µg/l). Trichlorofluoromethane was not detected at any of the wells.
- 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
01/26/05	John Skaarup	OK except RW-1D pump not operational upon arrival	Monthly system inspection. System operational upon arrival. Restarted RW-1D pump. RW-1D flow rate is only 3.9 gpm with valve in usual position. Completely opened flow control valves, flow increased to 4.5 gpm. Influent half of blower housing exterior has ice buildup due to low ambient temperature. Tested system interlocks – all OK. Collected coliform sample from settling tank.
02/07/05	John Skaarup	OK	Brief site visit to adjust RW-1D flow rate. System cycled on shortly after arrival. RW-1D flow rate was 8.4 gpm upon arrival, adjusted to 6.2 gpm. Influent half of blower housing exterior no longer has ice buildup. Blower intake is free of obstructions.
02/28/05	John Skaarup	OK	System operational upon arrival. Conducted monthly system inspection. Checked system interlocks – all OK. Blower intake is free of obstructions. Collected quarterly system performance samples per O&M Manual. Reservoir at approx. 12.75 feet.
03/31/05	John Skaarup	OK	System operational upon arrival for monthly visit. Process piping and valves are in good condition. Tested operation of all system alarms and interlocks - all are operating properly.
04/13/05	John Skaarup & Robert Hyde	OK	Monthly visit with collection of coliform sample from settling tank. Installed new blower intake air velocity monitoring port near location of permanent air velocity probe. Air velocity readings are similar to those observed at the existing port near blower housing. Process piping and valves are in good condition.
05/25/05	John Skaarup & Robert Hyde	OK	Monthly system inspection visit with annual inspection. Process piping and valves are in good condition. Tested operation of all system alarms and interlocks - all are operating properly. Cleaned air stripper sight tube of biological growth.
06/28/05	John Skaarup	OK	System operational upon arrival. Monthly system inspection visit. Process piping and valves are in good condition. Condensation on process piping and air stripper housing due to high ambient temperature. Tested operation of all system alarms and interlocks - all are operating properly. RW-1D and RW-2D flow control valves were more open than normal upon arrival due to a recent, large but temporary increase in water demand from Wright-Malta and NYSERDA. Adjusted flow control valves to correct individual well flow rates to approximately 6 gpm.

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)	
1/26/2005	14:20	0.0	3,515,900	34	0	0.00	6.1	3,773,600	34	187,700	3.83	
2/7/2005	7:40	8.4	3,552,900	12	37,000	2.14	6.0	3,803,200	12	29,600	1.71	
2/28/2005	9:20	6.0	3,615,500	21	62,600	2.07	6.1	3,865,100	21	61,900	2.05	
3/31/2005	9:25	6.1	3,713,600	31	98,100	2.20	6.1	3,963,000	31	97,900	2.19	
4/13/2005	13:10	6.0	3,758,000	13	44,400	2.37	6.0	4,007,700	13	44,700	2.39	
5/25/2005	11:10	4.7	3,911,500	42	153,500	2.54	6.1	4,215,800	42	208,100	3.44	
6/28/2005	10:10	6.3	4,033,000	34	121,500	2.48	6.0	4,591,200	34	375,400	7.67	
Summary				187	517,100	1.920			187	1,005,300	3.733	

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
1/26/2005	14:20	12.60	yes	no	yes	
2/7/2005	9:20	12.75	yes	yes	yes	
2/28/2005	9:20	12.75	yes	no	yes	
3/31/2005	9:25	12.75	yes	no	yes	
4/13/2005	13:20	12.75	yes	no	yes	
5/25/2005	11:10	12.75	yes	yes (5/24/05)	yes	
6/28/2005	10:10	12.75	yes	no	yes	

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 2005 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	DGC-3S	DGC-4S	4D	11D	13D	DUP B (13D)	14 D	M-24D	M-25D	M-27D
Acetone	50	5 UJ	5 UJ	5 UJ	5 UJ	NA	NA	5 UJ	5 UJ	5 UJ	5 UJ
Carbon Disulfide	None*	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	1 U	13	NA	NA	1 U	10	81 DJ	21
Chloroform	7	1 U	1 U	1 U	4.0	NA	NA	1 U	1 U	8	1 U
2-Butanone	5	5 UJ	5 UJ	5 UJ	5 UJ	NA	NA	5 UJ	5 UJ	5 UJ	5 UJ
Trichloroethene	5	1 U	1 U	1 U	0.8 J	NA	NA	1 U	1 U	35 DJ	18
Trichlorofluoromethane	5*	1 U	1 U	1 U	1 U	NA	NA	1 U	1 U	1 U	1.0
Chromium	50*	NA	NA	NA	NA	78.3	75.7	NA	NA	NA	1.7 B
Hexavalent Chromium	50*	NA	NA	NA	NA	10 U	10 U	NA	NA	NA	10 U

Field Parameters											
pH	-	6.02	7.53	7.91	7.59	7.88	--	7.82	7.79	7.56	7.7
Temperature (celsius)	-	7.16	9.53	8.40	9.40	9.22	--	8.38	8.93	8.81	8.85
Conductivity (umhos/cm)	-	73	377	330	435	311	--	149	308	431	342
Dissolved Oxygen	-	8.34	4.01	0.48	9.09	0.24	--	12.39	11.23	10.53	8.71
Turbidity (NTUs)	-	61	196	29.6	12	54	--	20.6	1.0	1.2	1.3
Depth To Water (feet)	-	12.16	7.00	39.46	32.97	13.17	--	43.46	32.99	30.13	39.01
Ground Water Elevation (feet)	-	193.64	198.80	288.09	286.71	316.1	--	297.91	287.58	284.33	265.26

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 - Identifies all compounds analyzed at a secondary dilution factor.
8. NM - Not measured due to equipment malfunction.

TABLE 5
MAY 2005 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	M-29D	DUPA (29D)	M-33S	M-33I	Trip Blank 1	SW-A	SW-B	SW-D	SW-E	SW-F	SW-G
Acetone	50	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	38 D	41 D	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
Chloroform	7	4.0	4	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
2-Butanone	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	NA	NA	NA	NA	NA	NA
Trichloroethene	5	14	13	1 U	1 U	1 U	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	50*	1 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	--	7.99	8.40	-	NA	NA	NA	NA	NA	NA
Temperature (celsius)	-	9.53	--	8.53	8.68	-	NA	NA	NA	NA	NA	NA
Conductivity (umhos/cm)	-	529	--	201	282	-	NA	NA	NA	NA	NA	NA
Dissolved Oxygen	-	10.26	--	8.02	9.52	-	NA	NA	NA	NA	NA	NA
Turbidity (NTUs)	-	12.8	--	29.3	17.4	-	NA	NA	NA	NA	NA	NA
Depth To Water (feet)	-	45.90	--	15.00	32.40	-	NA	NA	NA	NA	NA	NA
Ground Water Elevation (feet)	-	288.76	--	289.27	271.29	-	NA	NA	NA	NA	NA	NA

Notes:

1. All analytical concentrations are in µg/l (micrograms per liter (ppb)).
2. Only compounds detected at one or more sampling points are listed.
3. NA - not analyzed for.
4. U - analyte was not detected, and value shown is the detection limit.
5. J - estimated value due to data validation requirements or concentration less than CRQL (organics only).
6. B - The reported value is less than the CRDL but greater than the IDL (inorganics only).
- * Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Parts 700-706, 1998), identified for comparison purposes only.
7. D - Identifies all compounds analyzed at a secondary dilution factor.
8. NM - Not measured due to equipment malfunction.

TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S, 13D
JUNE 1987 - MAY 2005
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
DGC-3S									
Benzene	0.7*	ND	NA	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	NA	ND	ND	ND	ND	ND	NA
Aluminum	100*	0.48	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	no data	no data	no data	no data	no data	no data	no data	no data

DGC-4S

Carbon Disulfide	None*	--	--	--	--	--	--	--	--
Chromium	50*	--	--	--	--	--	--	--	--

13S

Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA

13D

Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

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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** = Filtered Sample.

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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S, 13D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	4/10/89	7/12/89	8/15/1989	11/30/1989	5/30/90	8/28/90	12/6/90	4/8- 4/10/1991
DGC-3S									
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	NA	8 V / 7 Vdp
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	no data	no data	no data	no data	NA	NA	NA	NA

DGC-4S

Carbon Disulfide	None*	--	--	--	--	--	--	--	ND/0.5Vdp
Chromium	50*	--	--	--	--	--	--	--	NA

13S

Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	2
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	60 D
Carbon Tetrachloride	5	NA	NA	NA	NA	18/16 dp	6.4	4.4	8
Chloroform	7	NA	NA	NA	NA	ND	ND	ND	ND
Trichloroethene	5	NA	NA	NA	NA	ND	ND	ND	ND
Trichlorofluoromethane	5*	NA	NA	NA	NA	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	336 V
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA

13D

Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S, 13D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	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	11/18- 11/19/1992	3/17- 3/18/1993
Benzene	0.7*	ND	0.2 J	ND	ND/NDdp	ND	ND	ND	ND
Carbon Disulfide	None*	4	ND	ND	ND/NDdp	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	6.1	62.2E/70.3Edp	16.2/ND*, 14.6/ND*dp	25.2/ND*	ND	33.6/ND*	18.5
Hexavalent Chromium	50*	NA	NA	NA	ND/4*/ND dp	NA	NA	NA	NA

DGC-4S

Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND/ND dp	4 V	ND
Chromium	50*	NA	15.9	11.9 E	ND/ND*	ND/ND*	ND/ND dp	8.6 B	48.1/ND*

13S

Benzene	0.7*	0.7/0.6 Jdp	1	ND	ND	ND	ND	0.4 JV	ND
Carbon Disulfide	None*	0.6	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	24 J/24 Jdp	8	12	9	6 J	9	16 V	15
Chloroform	7	0.8/0.9 Jdp	ND	0.4 J	0.3 J	ND	ND	0.6 V	0.6
Trichloroethene	5	ND	0.4 J	0.9	0.6	ND	0.6	1 V	2
Trichlorofluoromethane	5*	ND	ND	ND	ND	ND	0.5	0.9 V	2
Chromium	50*	NA	269/261**	316 E/562 E**	282/498**	504/512**	179/172**	585/576**	746/614**
Hexavalent Chromium	50*	NA	280	486/302**	260/310**	NA	287	493	663

13D

Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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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, 13D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	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
DGC-3S									
Benzene	0.7*	ND	ND	ND	ND	ND V	ND	ND	ND
Carbon Disulfide	None*	ND	0.8	ND	ND	ND V	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	4.3 B	4.7B	19.4	23.9	4.5 B	9.9 B	11.1	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA

DGC-4S

Carbon Disulfide	None*	0.3 J	0.2J	ND	ND	ND V/ND V dp	ND	ND	ND
Chromium	50*	ND	3.3B	ND	31.2/ND*	ND/ND dp	5.6 B	ND	NA

13S

Benzene	0.7*	ND	ND	ND	ND/ND dp	ND	ND	ND	NA
Carbon Disulfide	None*	ND	ND	ND	ND/ND dp	ND	ND	ND	NA
Carbon Tetrachloride	5	10	17	18	20/9 dp	9	9	9	NA
Chloroform	7	0.4 J	0.6	0.7	ND/ND dp	0.4 J	0.3 J	ND	NA
Trichloroethene	5	0.6	ND	2	2/1 dp	0.8	1	0.9	NA
Trichlorofluoromethane	5*	0.5	ND	2	2/1 dp	0.9	1	ND	NA
Chromium	50*	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
Hexavalent Chromium	50*	460	800	560	530/540 dp	340	101	36	150

13D

Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S, 13D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/17/1995	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999
DGC-3S									
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S									
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA
13S									
Benzene	0.7*	NA	NA	NA	1U	1U	NA	NA	NA
Carbon Disulfide	None*	NA	NA	NA	1U	1U	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	NA	1U	8	NA	NA	NA
Chloroform	7	NA	NA	NA	1U	1U	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	52.7 J	44.8	46.4	90.7/90.9**	71.4	71.2	98.6 J	72.4
Hexavalent Chromium	50*	48	47	47	97	67	51	54.0 J	71.0
13D									
Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

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E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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TABLE 6
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S, 13D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/26/1999	5/22/2000	10/24/2000	5/15/2001	10/23/2001	5/29/2002	10/29/2002	4/9/2003	10/9/2003	5/25/2004	11/2004	5/24/2005
DGC-3S													
Benzene	0.7*	ND	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	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S													
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S													
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	169	249	29.9	136	43.3	13.4	34.8	52.2	49.4	20.1	NA	NA
Hexavalent Chromium	50*	178	262	41	12.3	43.6 J	18	3.59	45	51.5	11	11.2	NA
13D													
Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4.5 B	78.3
Hexavalent Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10 U	10 U

Notes:

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Only detected compounds are listed.

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NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration; due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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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 2005
SEMI-ANNUAL SAMPLING

	Remedial Action												
M-27S	Objective	6/5/1992	11/11/1992	3/14/1994	5/23/1995	10/17/1995	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999
Carbon Disulfide	None*	ND	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	0.85 J
Chloromethane	5	40	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	8.4 B/ND**	57.4/ND**	not sampled	ND	ND	ND	ND	ND	ND	ND	3.2 BJ	0.98B
Hexavalent Chromium	50*	NA	NA	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND
M-27D													
Carbon Tetrachloride	5	75/62 dp	23	not sampled	33/42 dp	56	31	28	26	22	27	26 / 27 dp	20.3 / 20.1 dp
Chloroform	7	ND	3	not sampled	4/4 dp	5	3	3	3	2	3	2 / 2 dp	1.8 / 1.8 dp
Chloromethane	5	4 J/28 dp	ND	not sampled	ND/ND dp	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND dp
Trichloroethene	5											ND/ND dp	4.1/4.1 dp
Trichlorofluoromethane	5*	no data	no data	not sampled	no data	no data	no data	no data	no data	no data	no data	0.3 J / 0.3 J dp	0.92J / 0.99J dp
Chromium	50*	2.0 B/ND** 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:

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.

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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 2005
SEMI-ANNUAL SAMPLING

Remedial Action													
M-27S	Objective	10/26/1999	5/22/2000	10/24/2000	5/15/2001	10/23/2001	5/29/2002	10/29/2002	4/15/2003	10/9/2003	5/25/2004	11/2004	5/24/2005
Carbon Disulfide	None*	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / 0.11 J dp	ND	NA	NA
Chloromethane	5	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND J / ND J dp	ND	ND / ND dp	ND	NA	NA
Chromium	50*	0.85B/0.90b dp	1.1B	1.2B	ND / ND dp	ND / ND dp	ND / ND dp	1.2 B	8.5 B	1.0 B / 1.8 B dp	83.1	2.6 B / 2.2 B dp	NA
Hexavalent Chromium	50*	ND / ND dp	ND	ND	ND / ND dp	ND / ND dp	ND / ND dp	ND / ND dp	ND UJ	ND U / ND dp	ND	ND	NA
M-27D													
Carbon Tetrachloride	5	22.3	26.7D/28.9D dp	19.2/19.8 dp	13.8	16.2	14.5	24.2 DJ	5.1 / 4.5 dp	16.6	3 / 2.7 dp	22.1	21
Chloroform	7	1.8	ND / ND dp	1.7J / 1.3 dp	1.1	1.1	0.94J	2.4	ND / ND dp	1.0	0.53 JB / 0.55 JB dp	ND	ND
Chloromethane	5	ND	ND / ND dp	ND / ND dp	ND	ND	ND	ND	ND ND dp	ND	ND ND dp	ND	ND
Trichloroethene	5	10.7	12.8 / 12.1 dp	26.4 / 26.5D dp	19.4	27 D	22.7	14	2.4 / 2.2 dp	21.8 D	3.2 / 2.9 dp	22.7	18
Trichlorofluoromethane	5*	1.4	1.9 / 1.8 dp	2.9 / 2.9 dp	2.0	2.2	1.5	0.96 J	0.21J / 0.18J dp	2.3	0.27 J / 0.29 J dp	2.3	1.3
Chromium	50*	0.81B	2B/1.8B dp	1.2B/1.2B dp	ND	1.5 B	2 B	1.5 B	5.9B / 6.1B dp	1.2 B	22.6 / 21.3 dp	2.6 B	1.7 B
Hexavalent Chromium	50*	ND	ND/ND dp	ND/ND dp	ND	ND	ND	ND	ND / ND dp	ND	ND / ND dp	ND	ND
M-33S													
VOCs	-	ND	ND	ND	8.0 J	ND	ND	ND	ND	ND	ND	ND	ND
M-33I													
VOCs	-	ND	ND	ND	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

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
SURFACE WATER
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Surface Water Points /

Compounds	Cleanup Standard	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	8/15/1989	11/30/1989	12/27/1989
Carbon Disulfide	None*	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Aluminum	100*	0.12 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	no data
Lead	25*	NA	NA	NA	NA	0.02 mg/L	NA	NA	NA	NA	NA	NA	NA	no data
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SW-B

Carbon Disulfide	None*	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ND	NA	ND	ND	ND	ND	ND	1,1/1.1dp	ND	ND	ND	0.9	NA
Chloroform	7	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Aluminum	100*	0.21 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	no data
Lead	25*	NA	NA	NA	NA	<0.01 mg/L	NA	NA	NA	NA	NA	NA	NA	no data
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SW-D

Acetone	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Bromochloromethane	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7, ND dp	no data
Carbon Disulfide	None*	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichloroethane	0.6*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Methylene Chloride	5*	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2,3-Trichlorobenzene	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Aluminum	100*	0.50 mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	no data
Lead	25*	NA	NA	NA	NA	<0.005 mg/L	NA	NA	NA	NA	NA	NA	NA	no data
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SW-E (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SW-F (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SW-G (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not Sampled.

dp = Duplicate sample.

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

D = Concentration determined from a sample dilution.

E = Estimated concentration : due to interference.

J = Estimated concentration.

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

R = Rejected during data validation.

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for comparison purposes only.

** = Filtered Sample.

See RI report for additional data.

TABLE 8
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
SURFACE WATER
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Surface Water Points /

Compounds SW-A	Cleanup Standard	2/22/1990	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	11/18- 11/19/1992	3/17- 3/18/1993
Carbon Disulfide	None*	NA	NA	NA	NA	0.5 V	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Lead	25*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Chromium	50*	NA	NA	NA	NA	NA	NA	6.6	ND	ND	ND	ND	ND	6.1 B

SW-B

Carbon Disulfide	None*	NA	NA	NA	NA	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	0.88	ND	ND	I	0.4 J	0.6 J	0.4 J	0.8	0.8	0.7	0.3 J	0.6 V	ND
Chloroform	7	ND	ND	ND	ND	ND	0.2 J	ND	ND	ND	0.2 J	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	0.3 J	ND	0.2 J	ND	0.3 J	ND	ND	ND
Trichlorofluoromethane	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	ND	ND	2
Aluminum	100*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Lead	25*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Chromium	50*	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND

SW-D

Acetone	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Bromochloromethane	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	no data	no data	no data
1,2-Dichloroethane	0.6*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	ND	ND
Methylene Chloride	5*	NA	NA	NA	NA	NA	NA	ND	6.3 BE	ND	ND	no data	no data	no data
1,2,3-Trichlorobenzene	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Aluminum	100*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Lead	25*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Chromium	50*	NA	NA	NA	NA	ND	2	ND	ND	ND	ND	ND	ND	ND

SW-E (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SW-F (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SW-G (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not Sampled.

dp = Duplicate sample.

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

D = Concentration determined from a sample dilution.

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** = Filtered Sample.

See RI report for additional data.

TABLE 8
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
SURFACE WATER
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Surface Water Points / Compounds SW-A	Cleanup Standard	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	5/14/1996	10/23/1996	6/2/1997	10/14/1997
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Lead	25*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Chromium	50*	ND	3.2B	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

SW-B

Carbon Disulfide	None*	ND	ND	ND	ND/ND dp	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	ND
Carbon Tetrachloride	5	ND	0.3 J	0.7	0.4 J/0.4 J dp	0.4 J	0.2 JV	ND	ND	0.7 J/0.6 J dp	ND	0.6J	ND	ND
Chloroform	7	ND	ND	0.3 J	ND/ND dp	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	ND
Trichloroethene	5	ND	ND	0.2 J	ND/ND dp	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	ND
Trichlorofluoromethane	5*	ND	ND	ND	ND/ND dp	ND	ND V	ND	ND	ND/ND dp	ND	ND	ND	ND
Aluminum	100*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Lead	25*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Chromium	50*	ND	ND	ND	ND/ND dp	ND	ND	ND	ND	ND/ND dp	ND	ND	NA	ND

SW-D

Acetone	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Bromochloromethane	5*	ND	ND	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	ND	ND
Carbon Tetrachloride	5	no data	no data	no data	no data	no data	no data	no data	no data	no data	ND	ND	no data	no data
1,2-Dichloroethane	0.6*	ND	ND	ND	ND	ND	ND	ND	1.0	ND	ND	ND	ND	ND
Methylene Chloride	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	ND	ND	no data	no data
1,2,3-Trichlorobenzene	5*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Aluminum	100*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Lead	25*	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
Chromium	50*	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA

SW-E (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SW-F (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

SW-G (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not Sampled.

dp = Duplicate sample.

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

D = Concentration determined from a sample dilution.

E = Estimated concentration : due to interference.

J = Estimated concentration.

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

R = Rejected during data validation.

* Based on NYSDEC Final Combined Regulatory Impact and Environmental Impact Statement (Title 6, Chapter X, Part 700-705, 1998), identified for comparison purposes only.

** = Filtered Sample.

See RI report for additional data.

TABLE 8
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
SURFACE WATER
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

**Surface Water Points /
Compounds**

SW-A	Cleanup Standard	5/28/1998	10/29/1998	5/11/1999	10/26/1999	5/22/2000	10/24/2000	5/15/2001	10/23/2001	5/29/2002	10/29/2002	4/9/2003	10/9/2003	5/25/2004	11/2004	5/24/2005
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J	ND	ND	ND	ND	NA
Aluminum	100*	no data	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	no data	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SW-B

Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Carbon Tetrachloride	5	0.3J	ND	ND	ND	ND	0.54J	ND	ND	ND	0.18 J	0.34 J	0.27 J	0.38 J	0.43 J	NA
Chloroform	7	0.1J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.20 J	ND	NA
Trichloroethene	5	0.2J	ND	ND	ND	ND	ND	ND	ND	ND	0.20 J	0.19 J	0.19 J	0.28 J	0.27 J	NA
Trichlorofluoromethane	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aluminum	100*	no data	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	no data	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	ND	3.1 BJ	0.44 B	ND	0.9B	0.75B	ND	ND	1.5 B	0.93 B	1 B	0.75 B	2.1 B	0.94 B	NA

SW-D

Acetone	5*	43 J	R	ND	ND	ND	ND	ND	ND	ND	3.1 J	ND	ND	ND	ND	NA
Bromochloromethane	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Carbon Tetrachloride	5	ND	0.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2-Dichloroethane	0.6*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Methylene Chloride	5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,2,3-Trichlorobenzene	5*	0.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Aluminum	100*	no data	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	no data	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

SW-E (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.0	NA
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NA

SW-F (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NA
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NA

SW-G (See O&M Manual Addendum No. 1)

Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NA
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NA

Notes:

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

Only detected compounds are listed.

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ND = Not detected.

NS = Not Sampled.

dp = Duplicate sample.

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

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J = Estimated concentration.

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** = Filtered Sample.

See RI report for additional data.

TABLE 9
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D
JUNE 1987 - MAY 2005
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
4D									
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

11D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-24D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-25D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-29D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

See Remedial Investigation report for additional data.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

TABLE 9
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	4/10/89	7/12/89	8/15/1989	11/30/1989	5/30/90	8/28/90	12/6/90	4/8- 4/10/1991
4D									
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

11D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-24D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-25D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-29D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

See Remedial Investigation report for additional data.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

TABLE 9
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	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	11/18- 11/19/1992	3/17- 3/18/1993
4D									
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

11D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-24D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-25D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-29D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

See Remedial Investigation report for additional data.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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** = Filtered Sample.

TABLE 9
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	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
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

11D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-24D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-25D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

M-29D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

See Remedial Investigation report for additional data.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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** = Filtered Sample.

TABLE 9
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	10/17/1995	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999	10/26/1999
4D										
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NA	NA
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NA	NA
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NA	NA
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NA	NA
11D										
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NA	NA
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NA	NA
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NA	NA
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NA	NA
M-24D										
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS
M-25D										
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS
M-29D										
Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

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

Only detected compounds are listed.

See Remedial Investigation report for additional data.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

TABLE 9
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D
JUNE 1987 - MAY 2005
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	5/22/2000	10/24/2000	5/15/2001	10/23/2001	5/29/2002	10/29/2002	4/9/2003	10/9/2003	5/25/2004	11/2004	5/24/2005
4D												
Acetone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND J
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND

11D

Acetone	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND J
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	13
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	4.0
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	0.8 J

M-24D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND J
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.59 J	10
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND

M-25D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND J
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	86.8 D	81 DJ
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS	NS	8.7	8.0
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	16.1	35 DJ

M-29D

Acetone	50	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	ND J
Carbon Tetrachloride	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	10.8	38 D
Chloroform	7	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	4.0
Trichloroethene	5	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.0	14

Notes:

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

Only detected compounds are listed.

See Remedial Investigation report for additional data.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

FIGURES

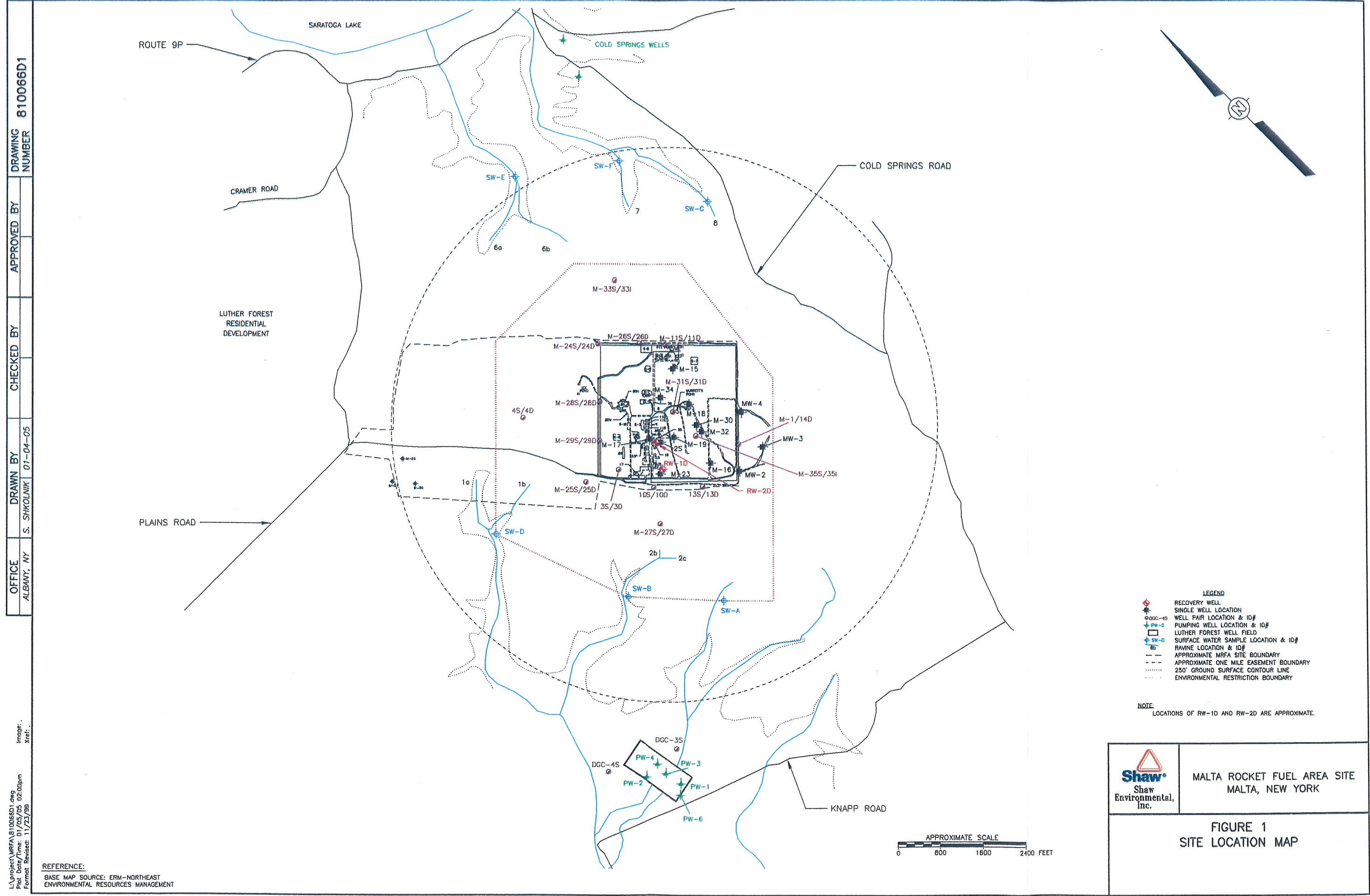


FIGURE 2
WELL M-27D CARBON TETRACHLORIDE CONCENTRATIONS

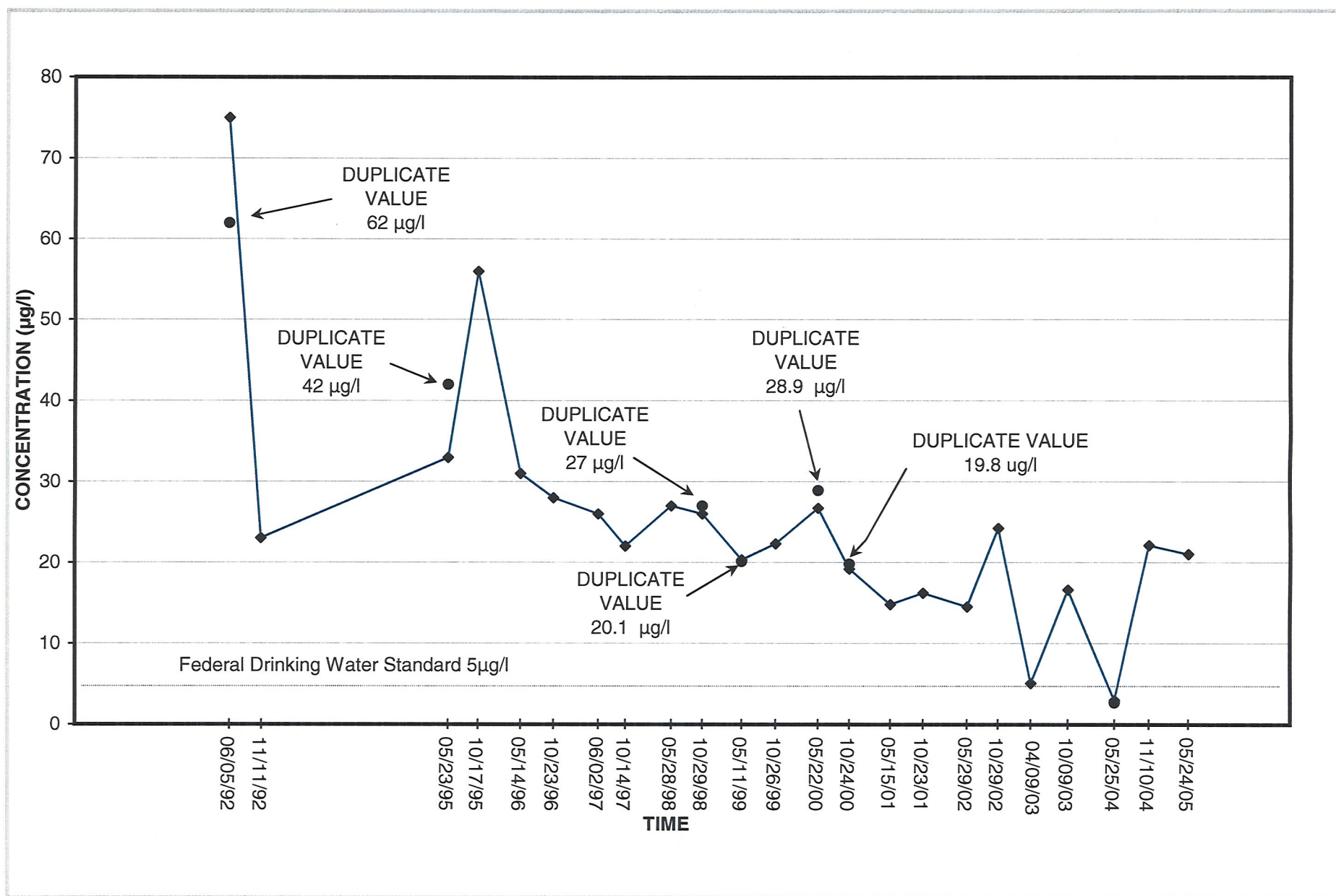


FIGURE 3
SIMULATED VERSUS OBSERVED (MAY 2005)
CARBON TETRACHLORIDE CONCENTRATIONS
AT WELL M-27D

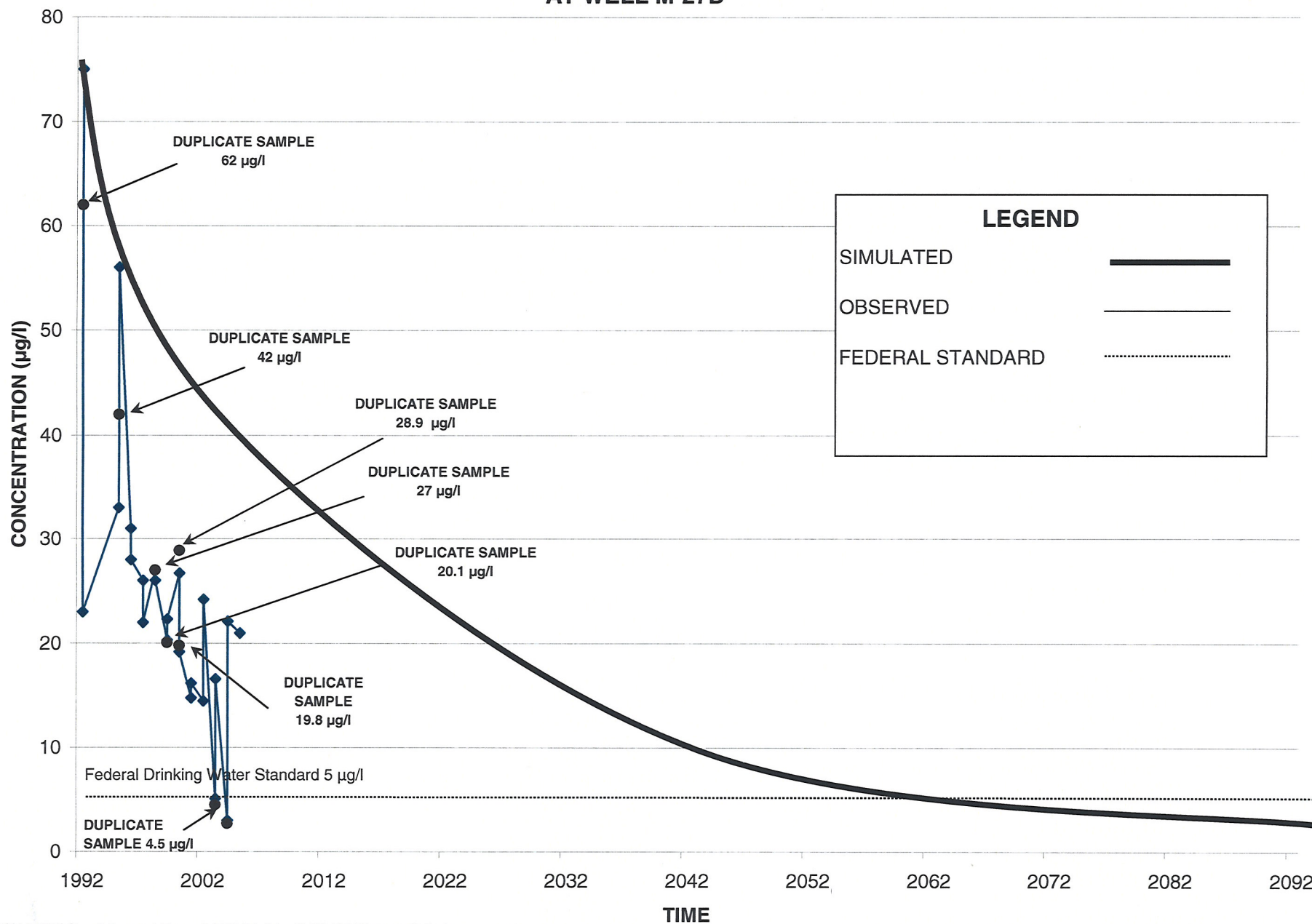


FIGURE 4
SIMULATED VERSUS OBSERVED (MAY 2005)
TRICHLOROETHENE CONCENTRATIONS
AT WELL M-33S

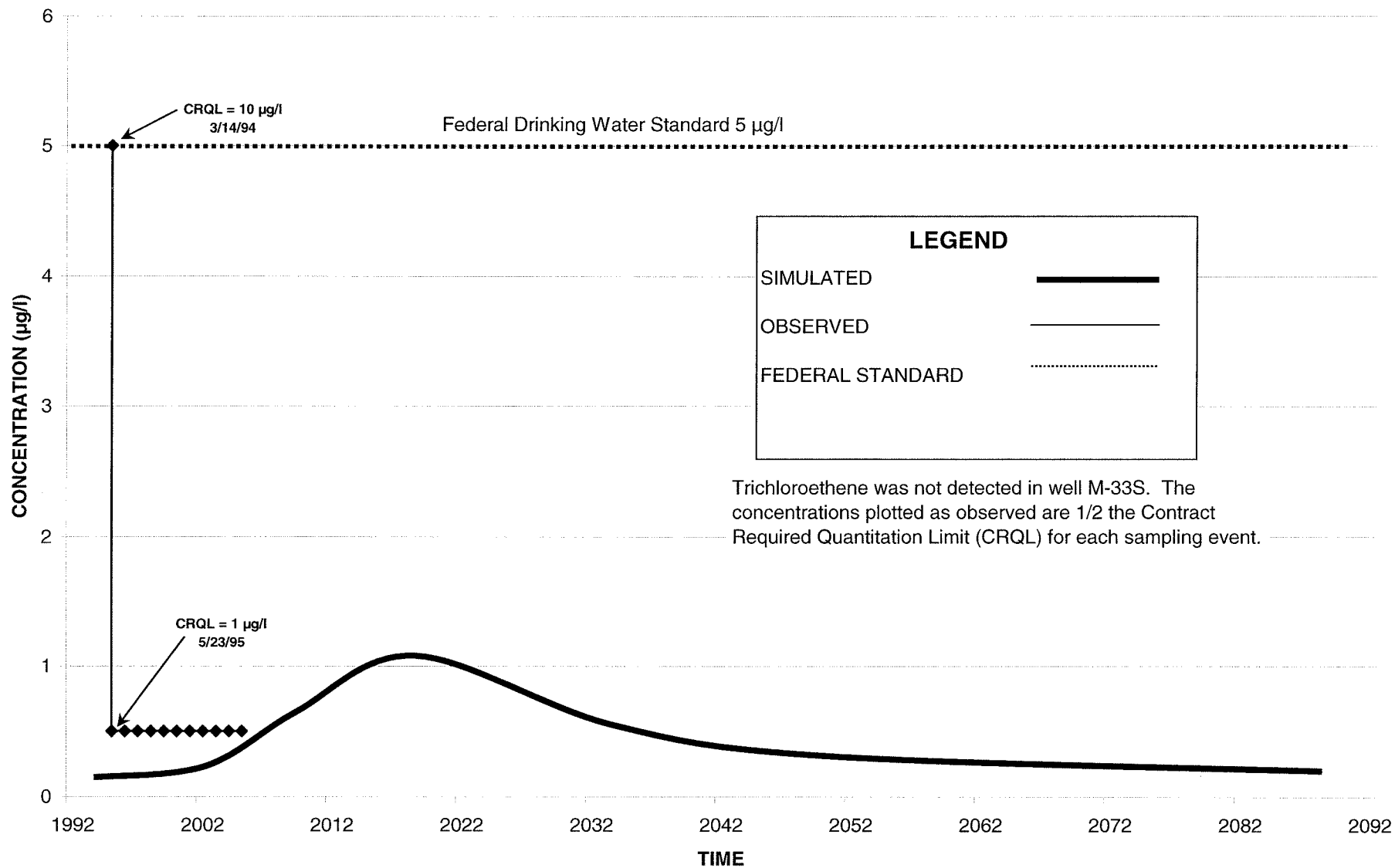
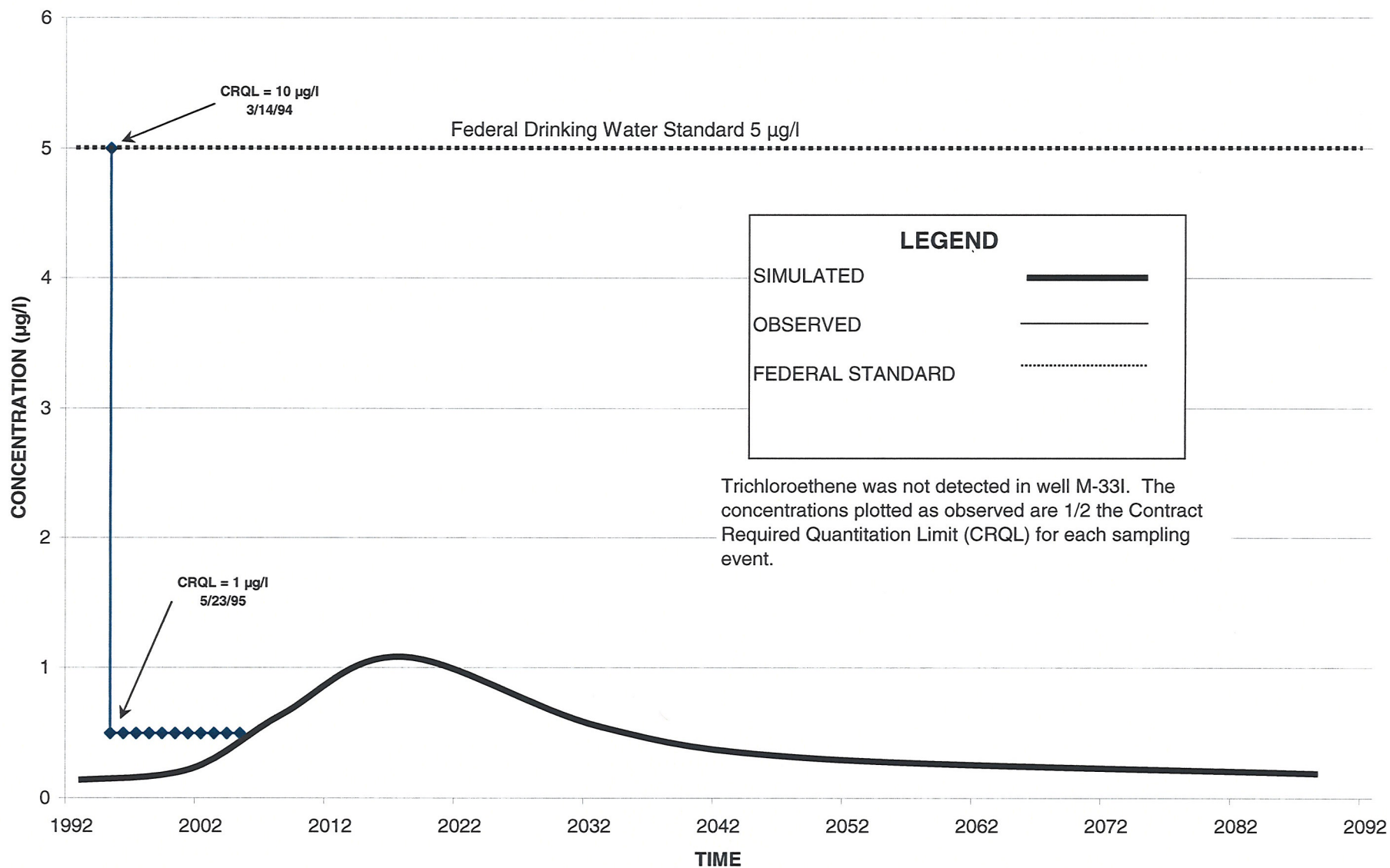


FIGURE 5
SIMULATED VERSUS OBSERVED (MAY 2005)
TRICHLOROETHENE CONCENTRATIONS
AT WELL M-33I



APPENDIX A

***LABORATORY DATA, INFLUENT/EFFLUENT WATER
SAMPLES***

FEBRUARY 28, 2005 AND MAY 24, 2005

April 8, 2005

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

Re: MRFA
Submission # R2525121
SDG # Effluent

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of four samples were received by our laboratory on March 1, 2005.

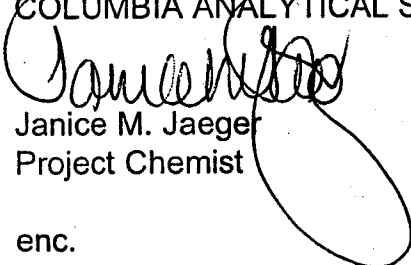
Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

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

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES

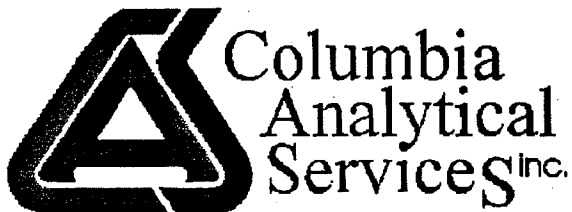


Janice M. Jaeger
Project Chemist

enc.

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

cc: Mr. Steve Meier
GE Corporate Environmental Programs
320 Great Oaks Blvd.
Suite 323
Albany, NY 12203



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

THIS IS AN ANALYTICAL TEST REPORT FOR:

Client : Shaw Environmental
Project Reference: MRFA PROJECT #810066
Lab Submission # : R2525121
Project Manager : Janice Jaeger
Reported : 03/30/05

Report Contains a total of 41 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

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
MRFA Project #810066
SUBMISSION #: R2525121

Shaw water samples were collected on 02/28/05 and received at CAS on 03/01/05 in good condition at a cooler temperature of 3 C.

VOLATILE ORGANICS

Three water samples, one cooler blank and one trip blank were analyzed for a Site Specific List of Volatiles by method OLC 2.1.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within limits.

All surrogate standard recoveries were within limits.

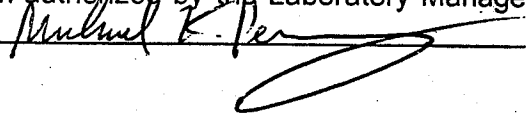
All samples were analyzed within required holding times.

Site specific QC was performed on Influent. All MS/MSD recoveries were within limits. All Blank Spike recoveries were within limits. All RPD's were within limits.

The Trip Blank and Cooler blank contained low level hits for Acetone and Chloroform.

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

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 conditions detailed above. Release of the data contained in the hard copy package has been authorized by the Laboratory Manager or his designee, as verified by the following signature: 

[illegible]



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.
- 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 25% difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P".
- 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 Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796549 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9575.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 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	0.4	J
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	5.2	80 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 (MEK)	5	U J
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	0.2	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
136777-61-2	(m+p) Xylene	2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
 Matrix: (soil/water) WATER Lab Sample ID: 796549 1.0
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9575.D
 Level: (low/med) LOW Date Received: 03/01/05
 % Moisture: not dec. _____ Date Analyzed: 03/10/05
 GC Column: DB-624 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: SHAW
Lab Code: 10145 Case No.: R5-25121 SAS No.: SDG No.: EFFLUENT
Matrix: (soil/water) WATER Lab Sample ID: 796549 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9575.D
Level: (low/med) LOW Date Received: 03/01/05
% Moisture: not dec. Date Analyzed: 03/10/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796550 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9561.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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 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 (MEK)		5	U J
74-97-5	Bromochloromethane		1	U
67-66-3	Chloroform		2	
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		13	
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		15	
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		0.2	J
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
136777-61-2	(m+p) Xylene		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENT

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
 Matrix: (soil/water) WATER Lab Sample ID: 796550 1.0
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9561.D
 Level: (low/med) LOW Date Received: 03/01/05
 % Moisture: not dec. _____ Date Analyzed: 03/09/05
 GC Column: DB-624 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: SHAW
Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
Matrix: (soil/water) WATER Lab Sample ID: 796550 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9561.D
Level: (low/med) LOW Date Received: 03/01/05
% Moisture: not dec. _____ Date Analyzed: 03/09/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPA

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796551 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9562.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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	5.8		J U 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 (MEK)		5	U J
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		0.2	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
136777-61-2	(m+p) Xylene		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPA

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796551 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9562.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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.

DUPA

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUEN
Matrix: (soil/water) WATER Lab Sample ID: 796551 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9562.D
Level: (low/med) LOW Date Received: 03/01/05
% Moisture: not dec. _____ Date Analyzed: 03/09/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796552 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9563.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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		3.3	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 (MEK)		5	U J
74-97-5	Bromochloromethane		1	U
67-66-3	Chloroform		0.3	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
136777-61-2	(m+p) Xylene		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796552 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9563.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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	J
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: SHAW
Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
Matrix: (soil/water) WATER Lab Sample ID: 796552 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9563.D
Level: (low/med) LOW Date Received: 03/01/05
% Moisture: not dec. _____ Date Analyzed: 03/09/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COOLER BLK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796553 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9576.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 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
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 (MEK)		5	U
74-97-5	Bromochloromethane		1	U
67-66-3	Chloroform		0.7	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
136777-61-2	(m+p) Xylene		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COOLER BLK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796553 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9576.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 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 J
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: SHAW
Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
Matrix: (soil/water) WATER Lab Sample ID: 796553 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9576.D
Level: (low/med) LOW Date Received: 03/01/05
% Moisture: not dec. _____ Date Analyzed: 03/10/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUEN

	EPA SAMPLE NO.	SMC1 #	TOT OUT
01	VBLK01	95	0
02	LCS 1	107	0
03	INFLUENT	100	0
04	DUPA	100	0
05	TRIP BLANK	101	0
06	INFLUENTMS	105	0
07	INFLUENTMSD	106	0
08	VBLK02	96	0
09	LCS 2	109	0
10	EFFLUENT	97	0
11	COOLER BLK	103	0

SMC1 = SURR2,BFB

QC LIMITS
(80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SHAWLab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENTMatrix 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	5.1	102	60 - 140
1,2-Dichloroethane	5.0	0.0	5.1	102	60 - 140
Carbon tetrachloride	5.0	13	19	114	60 - 140
Benzene	5.0	0.0	5.3	106	60 - 140
Trichloroethene	5.0	15	21	120	60 - 140
1,2-Dichloropropane	5.0	0.0	5.2	104	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	4.8	96	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.2	104	60 - 140
Tetrachloroethene	5.0	0.21	5.6	106	60 - 140
1,2-Dibromoethane	5.0	0.0	5.2	104	60 - 140
Bromoform	5.0	0.0	5.2	104	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.0	100	60 - 140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Vinyl Chloride	5.0	5.2	104	2	20	60 - 140
1,2-Dichloroethane	5.0	5.2	104	2	20	60 - 140
Carbon tetrachloride	5.0	18	100	18	20	60 - 140
Benzene	5.0	5.2	104	2	20	60 - 140
Trichloroethene	5.0	21	120	0	20	60 - 140
1,2-Dichloropropane	5.0	5.1	102	2	20	60 - 140
cis-1,3-Dichloropropene	5.0	4.9	98	2	20	60 - 140
1,1,2-Trichloroethane	5.0	5.1	102	2	20	60 - 140
Tetrachloroethene	5.0	5.5	106	2	20	60 - 140
1,2-Dibromoethane	5.0	5.0	100	4	20	60 - 140
Bromoform	5.0	5.4	108	4	20	60 - 140
1,4-Dichlorobenzene	5.0	5.1	102	2	20	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENTMS

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796550 MS

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9565.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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		5	U
75-15-0	Carbon Disulfide		1	U
75-09-2	Methylene Chloride		6	
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 (MEK)		5	U
74-97-5	Bromochloromethane		5	
67-66-3	Chloroform		7	
107-06-2	1,2-Dichloroethane		5	
71-55-6	1,1,1-Trichloroethane		6	
56-23-5	Carbon tetrachloride		19	
71-43-2	Benzene		5	
79-01-6	Trichloroethene		21	
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		6	
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	
136777-61-2	(m+p) Xylene		10	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENTMS

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: 796550 MS

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9565.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. Date Analyzed: 03/09/05

GC Column: DB-624 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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENTMSD

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUEN

Matrix: (soil/water) WATER Lab Sample ID: 796550 MSD

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9566.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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	6		
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 (MEK)	5		U
74-97-5	Bromochloromethane	5		
67-66-3	Chloroform	7		
107-06-2	1,2-Dichloroethane	5		
71-55-6	1,1,1-Trichloroethane	6		
56-23-5	Carbon tetrachloride	18		
71-43-2	Benzene	5		
79-01-6	Trichloroethene	21		
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	6		
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		
136777-61-2	(m+p) Xylene	10		
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

INFLUENTMSD

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUEN

Matrix: (soil/water) WATER Lab Sample ID: 796550 MSD

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9566.D

Level: (low/med) LOW Date Received: 03/01/05

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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: SHAW
 Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
 Matrix Spike - EPA Sample No LCS 1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	4.7	94	60 - 140
1,2-Dichloroethane	5.0	0.0	4.9	98	60 - 140
Carbon tetrachloride	5.0	0.0	5.2	104	60 - 140
Benzene	5.0	0.0	5.0	100	60 - 140
Trichloroethene	5.0	0.0	5.2	104	60 - 140
1,2-Dichloropropane	5.0	0.0	4.8	96	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	4.7	94	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.0	100	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	5.4	108	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.0	100	60 - 140

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: LCS 1

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9559.D

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

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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	4	
75-01-4	Vinyl Chloride	5	
74-83-9	Bromomethane	3	
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 (MEK)	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	
136777-61-2	(m+p) Xylene	10	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 1

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUEN

Matrix: (soil/water) WATER Lab Sample ID: LCS 1

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9559.D

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

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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	

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SHAWLab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENTMatrix Spike - EPA Sample No LCS 2

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	4.6	92	60 - 140
1,2-Dichloroethane	5.0	0.0	4.9	98	60 - 140
Carbon tetrachloride	5.0	0.0	4.9	98	60 - 140
Benzene	5.0	0.0	4.9	98	60 - 140
Trichloroethene	5.0	0.0	4.8	96	60 - 140
1,2-Dichloropropane	5.0	0.0	4.8	96	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	4.7	94	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.2	104	60 - 140
Tetrachloroethene	5.0	0.0	4.8	96	60 - 140
1,2-Dibromoethane	5.0	0.0	5.2	104	60 - 140
Bromoform	5.0	0.0	5.1	102	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.1	102	60 - 140

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 2

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUEN

Matrix: (soil/water) WATER Lab Sample ID: LCS 2

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9573.D

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

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 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	4	
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	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 (MEK)	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	
136777-61-2	(m+p) Xylene	10	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS 2

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUEN

Matrix: (soil/water) WATER Lab Sample ID: LCS 2

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9573.D

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

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 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	

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK01

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
 Lab File ID: R9558.D Lab Sample ID: VBK01
 Date Analyzed: 03/09/05 Time Analyzed: 18:06
 GC Column: DB-624 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	LCS 1	LCS 1	R9559.D	18:46
02	INFLUENT	796550 1.0	R9561.D	20:00
03	DUPA	796551 1.0	R9562.D	20:36
04	TRIP BLANK	796552 1.0	R9563.D	21:13
05	INFLUENTMS	796550 MS	R9565.D	22:26
06	INFLUENTMSD	796550 MSD	R9566.D	23:03

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9558.D

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

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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 (MEK)		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
136777-61-2	(m+p) Xylene		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK01

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: VBK01

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9558.D

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

% Moisture: not dec. _____ Date Analyzed: 03/09/05

GC Column: DB-624 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.

VBK01

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT7
Matrix: (soil/water) WATER Lab Sample ID: VBK01
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9558.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 03/09/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
---------	---------------	----	------------	---

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Lab File ID: R9572.D Lab Sample ID: VBLK02

Date Analyzed: 03/10/05 Time Analyzed: 11:47

GC Column: DB-624 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	LCS 2	LCS 2	R9573.D	12:35
02	EFFLUENT	796549 1.0	R9575.D	13:49
03	COOLER BLK	796553 1.0	R9576.D	14:26

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: VBLK02

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9572.D

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

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 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 (MEK)	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
136777-61-2	(m+p) Xylene	2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT

Matrix: (soil/water) WATER Lab Sample ID: VBLK02

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9572.D

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

% Moisture: not dec. _____ Date Analyzed: 03/10/05

GC Column: DB-624 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 (MEK)	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
136777-61-2	(m+p) Xylene	2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLK02

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-25121 SAS No.: SDG No.: EFFLUEN

Matrix: (soil/water) WATER Lab Sample ID: VLK02

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: R9572.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/10/05

GC Column: DB-624 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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
 Lab File ID (Standard): R9553.D Date Analyzed: 03/09/05
 Instrument ID: GCMS#6 Time Analyzed: 14:21
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		539905	7.08	440791	9.76	243993	11.32
UPPER LIMIT		1079810	7.58	881582	10.26	487986	11.82
LOWER LIMIT		269953	6.58	220396	9.26	121997	10.82
EPA SAMPLE NO.							
01	VBLK01	493858	7.09	417894	9.76	200939	11.32
02	LCS 1	544524	7.09	436155	9.75	240327	11.32
03	INFLUENT	485008	7.09	413665	9.75	198626	11.32
04	DUPA	477744	7.08	415928	9.76	199299	11.32
05	TRIP BLANK	467384	7.09	413059	9.75	194531	11.32
06	INFLUENTMS	526980	7.08	417737	9.76	238775	11.32
07	INFLUENTMSD	539333	7.09	432042	9.76	240302	11.32

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-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: SHAW
 Lab Code: 10145 Case No.: R5-25121 SAS No.: _____ SDG No.: EFFLUENT
 Lab File ID (Standard): R9570.D Date Analyzed: 03/10/05
 Instrument ID: GCMS#6 Time Analyzed: 10:50
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		532974	7.09	423291	9.75	235448	11.32
UPPER LIMIT		1065948	7.59	846582	10.25	470896	11.82
LOWER LIMIT		266487	6.59	211646	9.25	117724	10.82
EPA SAMPLE NO.							
01	VBLK02	462315	7.09	398721	9.76	191610	11.32
02	LCS 2	531951	7.09	428766	9.75	237215	11.32
03	EFFLUENT	467495	7.09	394285	9.76	185695	11.32
04	COOLER BLK	459830	7.09	396912	9.75	190613	11.32

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-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 24, 2005

June 23, 2005

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

Re: MRFA
Submission # R2526286
SDG # M-33S

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of seventeen samples were received by our laboratory on May 25, 2005.

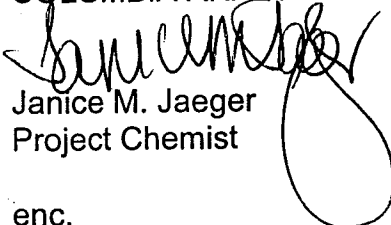
Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

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

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES



Janice M. Jaeger
Project Chemist

enc.

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

cc: Mr. Steve Meier
GE Corporate Environmental Programs
320 Great Oaks Blvd.
Suite 323
Albany, NY 12203



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 # : R2526286
Project Manager : Janice Jaeger
Reported : 06/22/05

Report Contains a total of 113 pages

The results reported herein relate only to the samples received by the laboratory. This report may not be reproduced except in full, without the approval of Columbia Analytical Services.

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

CASE NARRATIVE

COMPANY: Shaw Environmental
MRFA Project #810066
SUBMISSION #: R2526286

Shaw water samples were collected on 05/24/05 and received at CAS on 05/25/05 in good condition at a cooler temperature of 4 C.

INORGANICS

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

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

No other QC and analytical problems were encountered.

VOLATILE ORGANICS

Fourteen water samples, one cooler blank and one trip blank were analyzed for a Site Specific List of Volatiles by method OLC 2.1.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within limits.

All surrogate standard recoveries were within limits.

Various compounds for M-29D, M-25D and DUPA have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out. Please note: Due to a laboratory error, the dilution for M-25D was analyzed 4 days outside the recommended holding time of 10 days from VTSR.

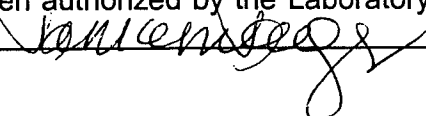
All samples were analyzed within required holding times except as mentioned above.

Site specific QC was performed on M-27D. All MS/MSD recoveries were within limits. All Blank Spike recoveries were within limits. All RPD's were within limits except Trichloroethene and has been flagged with an "**".

The Cooler blank contained a low level hit for Chloroform.

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

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 conditions detailed above. Release of the data contained in the hard copy package has been authorized by the Laboratory Manager or his designee, as verified by the following signature: 



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.
- 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 25% difference for detected concentrations between the two GC columns. The concentration is reported on the Form I and flagged with a "P".
- 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 Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



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
- "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 Registration 68-786
Rhode Island ID # 158
South Carolina ID #91012
West Virginia ID # 292



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 2

SR #

CAS Contact

Project Name MRKA		Project Number 810866		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager Brian Neumann		Report PC Steven Meier, Judy Harry		PRESERVATIVE		128																	
Company/Address Shaw Environmental, Inc.		FAX 518-783-9397		NUMBER OF CONTAINERS		Hexachlorobutadiene																	
13 British American Blvd.		Samples Picked Name John A. Skarup				Chloroform																	
Latham, NY 12110						VOC-021																	
Phone #						(List in comments below)																	
518-783-1996						METALS, TOTAL																	
Samples Signature John A. Skarup		Samples Picked Name John A. Skarup				(List in comments below)																	
						METALS, DISSOLVED																	
CLIENT SAMPLE ID		FOR OFFICE USE ONLY		LAB ID		SAMPLING DATE		TIME		MATRIX													
M-335		8110880		82		5/14/07		0726		H2O		3											
M-331		82		84		0755		0963				3											
4D		85		86		0937		1002				3											
M-24D		87		88		1029		1124				3											
DGC-35		91		97		1154		1255				3											
DGC-45		99		99		1310						3											
M-25D																							
System Effluent																							
SPECIAL INSTRUCTIONS/COMMENTS														TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION					
Metals														RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day		I. Results Only 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		PO#		BILL TO: Steven Meier			
VOC analyses to include the following analytes: Hexachlorobutadiene 1,2,3-trichlorobenzene Trichlorofluoromethane														STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE				GE CEP		SUBMISSION: Albany, NY			
See QAPP																Edna Yes No							
SAMPLE RECEIPT: CONDITION/COOLER TEMP:														CUSTODY SEALS: Y N		RECEIVED BY		RELINQUISHED BY		RECEIVED BY			
RELINQUISHED BY														RELINQUISHED BY		RELINQUISHED BY		RELINQUISHED BY		RELINQUISHED BY			
Signature John A. Skarup														Signature John A. Skarup		Signature John A. Skarup		Signature John A. Skarup		Signature John A. Skarup		Signature John A. Skarup	
Printed Name John A. Skarup														Printed Name John A. Skarup		Printed Name John A. Skarup		Printed Name John A. Skarup		Printed Name John A. Skarup		Printed Name John A. Skarup	
Firm Shaw Env. Inc.														Firm Shaw Env. Inc.		Firm Shaw Env. Inc.		Firm Shaw Env. Inc.		Firm Shaw Env. Inc.		Firm Shaw Env. Inc.	
Date/Time 5/14/07 1600														Date/Time 5/25/05 940		Date/Time 5/25/05 940		Date/Time 5/25/05 940		Date/Time 5/25/05 940		Date/Time 5/25/05 940	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SR # 2 OF 2

CAS Contact

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

www.caslab.com

Project Name <u>MRFA</u>				Project Number <u>8/0066</u>				ANALYSIS REQUESTED (Include Method Number and Container Preservative)																							
Project Manager <u>Brian Newman</u>				Report CC <u>Steven Meier, Judy Harry</u>				PRESERVATIVE																							
Company/Address <u>Shaw Environmental, Inc.</u>								PRELIMINARY ANALYSIS REQUESTED (List in comments below)																							
13 British American Blvd.								METALS, TOTAL																							
Latham, NY 12110								METALS, DISSOLVED																							
Phone #				FAX #				METALS, DISSOLVED (List in comments below)																							
518-783-996				518-783-8397				METALS, DISSOLVED (List in comments below)																							
Samples Signature <u>John A. Skarup</u>				Sampler's Printed Name <u>John A. Skarup</u>				METALS, DISSOLVED (List in comments below)																							
CLIENT SAMPLE ID				FOR OFFICE USE ONLY				LAB ID				SAMPLING DATE				TIME				MATRIX											
System Influent				816899				902				5/24/05				1315				H2O											
14D																															
13D								DS																							
M-27D								166																							
Top Black								04																							
M-37D ms/mo												5/24/05				1420				H2O											
DUPA								07																							
DUPB								08																							
Temp Blank																															
SPECIAL INSTRUCTIONS/COMMENTS Metals VOC analyses to include the following analytes: Hexachlorobenzene 1,2,3-trichlorobenzene trichlorofluoromethane See QAPP ☐								TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 24 hr 48 hr 5 day STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE								REPORT REQUIREMENTS I. Results Only 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 Eda Yes No								INVOICE INFORMATION PO# BILL TO Steven Meier GF CEP Albany, NY SUBMISSION #							
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 0								CUSTODY SEALS: Y N								RECEIVED BY								RELINQUISHED BY							
Signature <u>John A. Skarup</u>								Signature <u>John A. Skarup</u>								Signature <u>John A. Skarup</u>								Signature <u>John A. Skarup</u>							
Printed Name <u>John A. Skarup</u>								Printed Name <u>John A. Skarup</u>								Printed Name <u>John A. Skarup</u>								Printed Name <u>John A. Skarup</u>							
Firm <u>Shaw Env. Inc.</u>								Firm <u>Shaw Env. Inc.</u>								Firm <u>Shaw Env. Inc.</u>								Firm <u>Shaw Env. Inc.</u>							
Date/Time <u>5/24/05 1600</u>								Date/Time <u>5/25/05 940</u>								Date/Time <u>5/25/05 940</u>								Date/Time <u>5/25/05 940</u>							

Cooler Receipt And Preservation Check Form

Project/Client Shaw Submission Number R25 2686

Cooler received on 5/25/05 by NM COURIER: CAS UPS FEDEX CD&L 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: 4

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: 5/25/05 950

Thermometer ID: 161 or IR GUN Reading From: Temp Blank or Sample Bottle

If out of Temperature, Client Approval to Run Samples _____

Cooler Breakdown: Date: 5/25/05 by: amk

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: _____

		YES	NO	Sample I.D.	Reagent	Vol. Added
pH	Reagent					
12	NaOH					
2	HNO ₃	✓				
2	H ₂ SO ₄					
Residual Chlorine (+/-)	for TCN & Phenol					
5-9**	P/PCBs (608 only)					

YES = All samples OK NO = Samples were preserved at lab as listed PC OK to adjust pH _____

**If pH adjustment is required, use NaOH and/or H₂SO₄

VOC Vial pH Verification (Tested after Analysis) Following Samples Exhibited pH > 2				

Other Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-33S

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816880 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0833.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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	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 (MEK)	5	U	J
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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-33S

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816880 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0833.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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 J
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: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816880 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0833.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 05/31/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-33I

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816882 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0834.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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	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 (MEK)	5	U	J
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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-33I

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816882 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0834.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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 J
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-33I

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816882 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0834.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. Date Analyzed: 05/31/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

4D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816884 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0886.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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	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 (MEK)	5	U	J
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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

4D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816884 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0886.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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 3
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: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816884 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0886.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/02/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-11D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816885 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0851.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 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 (MEK)	5	U J
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	4	
107-06-2	1,2-Dichloroethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	13	
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	0.8	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	2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-11D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816885 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0851.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 J
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: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816885 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0851.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-24D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816886 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0836.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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 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 (MEK)		5	U J
74-97-5	Bromochloromethane		1	U
67-66-3	Chloroform		1 0.6	U U
107-06-2	1,2-Dichloroethane		1	U
71-55-6	1,1,1-Trichloroethane		1	U
56-23-5	Carbon tetrachloride		10	
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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-24D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816886 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0836.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816886 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0836.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 05/31/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-29D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816887 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0837.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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	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	0.4	J	
78-93-3	2-Butanone (MEK)	5	U	J
74-97-5	Bromochloromethane	1	U	
67-66-3	Chloroform	4		
107-06-2	1,2-Dichloroethane	1	U	
71-55-6	1,1,1-Trichloroethane	3		
56-23-5	Carbon tetrachloride	38 40	E	
71-43-2	Benzene	1	U	
79-01-6	Trichloroethene	14		
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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-29D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816887 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0837.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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-29D

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816887 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0837.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 05/31/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-29DDL

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816887 2.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0887.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. Date Analyzed: 06/02/05

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 2.0

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	10	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	0.3	JD
78-93-3	2-Butanone (MEK)	10	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	3	D
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	3	D
56-23-5	Carbon tetrachloride	38	D
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	12	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	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	4	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-29DDL

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816887 2.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0887.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 2.0

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-29DDL

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816887 2.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0887.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/02/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 2.0
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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DGC-3S

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816888 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0838.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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 (MEK)		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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DGC-3S

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816888 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0838.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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 J
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: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816888 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0838.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 05/31/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DGC-4S

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816891 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0855.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 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 (MEK)		5	U J
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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DGC-4S

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816891 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0855.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. Date Analyzed: 06/01/05

GC Column: DB-624 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-4S

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816891 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0855.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-25D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816897 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0852.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. Date Analyzed: 06/01/05

GC Column: DB-624 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	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		
78-93-3	2-Butanone (MEK)	5	U	J
74-97-5	Bromochloromethane	1	U	
67-66-3	Chloroform	8		
107-06-2	1,2-Dichloroethane	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
56-23-5	Carbon tetrachloride	8) 95	E	J
71-43-2	Benzene	1	U	
79-01-6	Trichloroethene	35 34	E	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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-25D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816897 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0852.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. Date Analyzed: 06/01/05

GC Column: DB-624 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-25D

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816897 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0852.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-25DDL

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816897 5.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0935.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/08/05

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 5.0

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	U	U
75-01-4	Vinyl Chloride	5	U	U
74-83-9	Bromomethane	5	U	U
75-00-3	Chloroethane	5	U	U
75-69-4	Trichlorofluoromethane	5	U	U
75-35-4	1,1-Dichloroethene	5	U	U
67-64-1	Acetone	25	U	U
75-15-0	Carbon Disulfide	5	U	U
75-09-2	Methylene Chloride	5	U	U
156-60-5	trans-1,2-Dichloroethene	5	U	U
75-34-3	1,1-Dichloroethane	5	U	U
156-59-2	cis-1,2-Dichloroethene	1	JD	JD
78-93-3	2-Butanone (MEK)	25	U	U
74-97-5	Bromochloromethane	5	U	U
67-66-3	Chloroform	9	D	D
107-06-2	1,2-Dichloroethane	5	U	U
71-55-6	1,1,1-Trichloroethane	5	U	U
56-23-5	Carbon tetrachloride	81	D	D
71-43-2	Benzene	5	U	U
79-01-6	Trichloroethene	35	D	D
78-87-5	1,2-Dichloropropane	5	U	U
75-27-4	Bromodichloromethane	5	U	U
10061-01-5	cis-1,3-Dichloropropene	5	U	U
108-10-1	4-Methyl-2-Pentanone	25	U	U
108-88-3	Toluene	5	U	U
10061-02-6	trans-1,3-Dichloropropene	5	U	U
79-00-5	1,1,2-Trichloroethane	5	U	U
127-18-4	Tetrachloroethene	5	U	U
591-78-6	2-Hexanone	25	U	U
124-48-1	Dibromochloromethane	5	U	U
106-93-4	1,2-Dibromoethane	5	U	U
108-90-7	Chlorobenzene	5	U	U
100-41-4	Ethylbenzene	5	U	U
1330-20-7	(m+p) Xylene	10	U	U
95-47-6	o-Xylene	5	U	U
100-42-5	Styrene	5	U	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U	U
75-25-2	Bromoform	5	U	U
541-73-1	1,3-Dichlorobenzene	5	U	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-25DDL

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816897 5.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0935.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/08/05

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 5.0

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

M-25DDL

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816897 5.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0935.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/08/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 5.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SYST. EFFLUENT

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816898 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0853.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 (MEK)		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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SYST. EFFLUENT

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Matrix: (soil/water) WATER Lab Sample ID: 816898 1.0
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0853.D
 Level: (low/med) LOW Date Received: 05/25/05
 % Moisture: not dec. _____ Date Analyzed: 06/01/05
 GC Column: DB-624 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.

SYST. EFFLUENT

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816898 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0853.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SYST. INFLUENT

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Matrix: (soil/water) WATER Lab Sample ID: 816899 1.0
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0854.D
 Level: (low/med) LOW Date Received: 05/25/05
 % Moisture: not dec. _____ Date Analyzed: 06/01/05
 GC Column: DB-624 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 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 (MEK)		5	U J
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		12	
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		14	
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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SYST. INFLUENT

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Matrix: (soil/water) WATER Lab Sample ID: 816899 1.0
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0854.D
 Level: (low/med) LOW Date Received: 05/25/05
 % Moisture: not dec. _____ Date Analyzed: 06/01/05
 GC Column: DB-624 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.

SYST. INFLUENT

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816899 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0854.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

14D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816902 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0857.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 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 (MEK)		5	U J
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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

14D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816902 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0857.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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-J
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: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816902 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0857.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-27D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816906 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0856.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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	
75-35-4	1,1-Dichloroethene		1	U
67-64-1	Acetone		5	U 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 (MEK)		5	U J
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		21	
71-43-2	Benzene		1	U
79-01-6	Trichloroethene		18	
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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-27D

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816906 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0856.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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-27D

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816906 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0856.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPA

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816907 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0858.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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	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	0.3	J	
78-93-3	2-Butanone (MEK)	5	U	J
74-97-5	Bromochloromethane	1	U	
67-66-3	Chloroform	4		
107-06-2	1,2-Dichloroethane	1	U	
71-55-6	1,1,1-Trichloroethane	3		
56-23-5	Carbon tetrachloride	41	41	E
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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPA

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816907 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0858.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 J
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.

DUPA

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816907 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0858.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPADL

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816907 2.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0888.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. Date Analyzed: 06/02/05

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 2.0

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	U
75-01-4	Vinyl Chloride	2	U	U
74-83-9	Bromomethane	2	U	U
75-00-3	Chloroethane	2	U	U
75-69-4	Trichlorofluoromethane	2	U	U
75-35-4	1,1-Dichloroethene	2	U	U
67-64-1	Acetone	10	U	U
75-15-0	Carbon Disulfide	2	U	U
75-09-2	Methylene Chloride	2	U	U
156-60-5	trans-1,2-Dichloroethene	2	U	U
75-34-3	1,1-Dichloroethane	2	U	U
156-59-2	cis-1,2-Dichloroethene	0.4	JD	JD
78-93-3	2-Butanone (MEK)	10	U	U
74-97-5	Bromochloromethane	2	U	U
67-66-3	Chloroform	3	D	D
107-06-2	1,2-Dichloroethane	2	U	U
71-55-6	1,1,1-Trichloroethane	3	D	D
56-23-5	Carbon tetrachloride	41	D	D
71-43-2	Benzene	2	U	U
79-01-6	Trichloroethene	13	D	D
78-87-5	1,2-Dichloropropane	2	U	U
75-27-4	Bromodichloromethane	2	U	U
10061-01-5	cis-1,3-Dichloropropene	2	U	U
108-10-1	4-Methyl-2-Pentanone	10	U	U
108-88-3	Toluene	2	U	U
10061-02-6	trans-1,3-Dichloropropene	2	U	U
79-00-5	1,1,2-Trichloroethane	2	U	U
127-18-4	Tetrachloroethene	2	U	U
591-78-6	2-Hexanone	10	U	U
124-48-1	Dibromochloromethane	2	U	U
106-93-4	1,2-Dibromoethane	2	U	U
108-90-7	Chlorobenzene	2	U	U
100-41-4	Ethylbenzene	2	U	U
1330-20-7	(m+p) Xylene	4	U	U
95-47-6	o-Xylene	2	U	U
100-42-5	Styrene	2	U	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U	U
75-25-2	Bromoform	2	U	U
541-73-1	1,3-Dichlorobenzene	2	U	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPADL

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816907 2.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0888.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 2.0

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.

DUPADL

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816907 2.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0888.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/02/05
GC Column: DB-624 ID: 0.18 (mm) Dilution Factor: 2.0
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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816909 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0859.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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	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 (MEK)	5	UJ	
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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816909 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0859.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 J
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: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816909 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0859.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COOLER BLANK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816910 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0890.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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	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 (MEK)	5	U	J
74-97-5	Bromochloromethane	1	U	
67-66-3	Chloroform	0.3	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	2	U	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

COOLER BLANK

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816910 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0890.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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 <i>J</i>
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 BLANK

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 816910 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0890.D
Level: (low/med) LOW Date Received: 05/25/05
% Moisture: not dec. Date Analyzed: 06/02/05
GC Column: DB-624 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
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2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

	EPA SAMPLE NO.	SMC1 #	TOT OUT
01	VLK01	105	0
02	LCS01	99	0
03	M-33S	103	0
04	M-33I	104	0
05	M-24D	109	0
06	M-29D	108	0
07	DGC-3S	107	0
08	VLK02	100	0
09	LCS02	99	0
10	M-11D	100	0
11	M-25D	102	0
12	SYST. EFFLUENT	106	0
13	SYST. INFLUENT	104	0
14	DGC-4S	104	0
15	M-27D	102	0
16	14D	105	0
17	DUPA	105	0
18	TRIP BLANK	106	0
19	M-27DMS	102	0
20	M-27DMSD	101	0
21	VLK03	103	0
22	LCS03	98	0
23	4D	102	0
24	M-29DDL	102	0
25	DUPADL	104	0
26	COOLER BLANK	104	0
27	VLK04	99	0
28	LCS04	105	0
29	M-25DDL	99	0

QC LIMITS
(80-120)

SMC1 = SURR2,BFB

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

13D

Contract: R2526286

Lab Code:

Case No.:

SAS No.:

SDG NO.: M-33S

Matrix (soil/water): WATER

Lab Sample ID: 816905

Level (low/med): LOW

Date Received: 05/25/05

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	78.3			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUPB

Contract: R2526286

Lab Code:

Case No.:

SAS No.:

SDG NO.: M-33S

Matrix (soil/water): WATER

Lab Sample ID: 816908

Level (low/med): LOW

Date Received: 05/25/05

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	75.7			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

M-27D

Contract: R2526286

Lab Code:

Case No.:

SAS No.:

SDG NO.: M-33S

Matrix (soil/water): WATER

Lab Sample ID: 816906

Level (low/med): LOW

Date Received: 05/25/05

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.7	B		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

M-27DS

Contract: R2526286

Lab Code:

Case No.:

SAS No.:

SDG NO.: M-33S

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Chromium	75 - 125	197.2827	1.7140 B	200.00	97.8		P

Comments:

METALS

-5B-

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

M-27DA

Contract: R2526286

Lab Code:

Case No.:

SAS No.:

SDG NO.: M-33S

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Chromium		187.86	1.71 B	200.0	93.1		P

Comments:

METALS

-6-

DUPLICATES

SAMPLE NO.

M-27DD

Contract: R2526286

Lab Code:

Case No.:

SAS No.:

SDG NO.: M-33S

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): $\mu\text{G/L}$

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chromium		1.7140	B	1.6888	B	1.5		P

COLUMBIA ANALYTICAL SERVICES

Reported: 06/22/05

Shaw Environmental

Project Reference: GE MRFA PROJECT #810066

Client Sample ID : 13D

Date Sampled : 05/24/05 14:00

Order #: 816905

Sample Matrix: WATER

Date Received: 05/25/05

Submission #: R2526286

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
HEXAVALENT CHROMIUM	7196A	0.0100	0.0100 U	MG/L	05/25/05	10:08	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/22/05

Shaw Environmental

Project Reference: GE MRFA PROJECT #810066

Client Sample ID : M-27D

Date Sampled : 05/24/05 14:20

Order #: 816906

Sample Matrix: WATER

Date Received: 05/25/05

Submission #: R2526286

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
HEXAVALENT CHROMIUM	7196A	0.0100	0.0100 U	MG/L	05/25/05	10:08	1.0

COLUMBIA ANALYTICAL SERVICES

Reported: 06/22/05

Shaw Environmental

Project Reference: GE MRFA PROJECT #810066

Client Sample ID : DUPB

Date Sampled : 05/24/05

Order #: 816908

Sample Matrix: WATER

Date Received: 05/25/05

Submission #: R2526286

ANALYTE	METHOD	PQL	RESULT	UNITS	DATE ANALYZED	TIME ANALYZED	DILUTION
HEXAVALENT CHROMIUM	7196A	0.0100	0.0100 U	MG/L	05/25/05	10:08	1.0

COLUMBIA ANALYTICAL SERVICES

INORGANIC QUALITY CONTROL SUMMARY

Report Date : 06/22/05
CAS Order # : 816906 - M-27D
Client : Shaw Environmental
 GE MRFA PROJECT #810066
Reported Units: MG/L
Run # : 116494

PRECISION ACCURACY

ORIGINAL	DUPLICATE	RPD	FOUND	ADDED	% REC.	LIMITS
0.0100 U	0.0100 U	NC	0.105	0.100	105	85 - 115

HEXAVALENT CHROMIUM

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Matrix Spike - EPA Sample No M-27D

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	5.8	116	60 - 140
Carbon tetrachloride	5.0	21	28	138	60 - 140
Benzene	5.0	0.0	5.2	104	60 - 140
Trichloroethene	5.0	18	22	86	60 - 140
1,2-Dichloropropane	5.0	0.0	5.1	102	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	5.0	100	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.5	110	60 - 140
Tetrachloroethene	5.0	0.0	4.8	96	60 - 140
1,2-Dibromoethane	5.0	0.0	5.0	100	60 - 140
Bromoform	5.0	0.0	5.6	112	60 - 140
1,4-Dichlorobenzene	5.0	0.0	4.9	98	60 - 140

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Vinyl Chloride	5.0	5.1	102	2	20	60 - 140
1,2-Dichloroethane	5.0	5.9	118	2	20	60 - 140
Carbon tetrachloride	5.0	28	140	0	20	60 - 140
Benzene	5.0	5.3	106	2	20	60 - 140
Trichloroethene	5.0	23	100	22 *	20	60 - 140
1,2-Dichloropropane	5.0	4.8	96	6	20	60 - 140
cis-1,3-Dichloropropene	5.0	5.1	102	2	20	60 - 140
1,1,2-Trichloroethane	5.0	5.4	108	2	20	60 - 140
Tetrachloroethene	5.0	4.8	96	0	20	60 - 140
1,2-Dibromoethane	5.0	5.0	100	0	20	60 - 140
Bromoform	5.0	5.5	110	2	20	60 - 140
1,4-Dichlorobenzene	5.0	5.1	102	4	20	60 - 140

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

* Values outside of QC limits

RPD: 1 out of 12 outside limits

Spike Recovery: 0 out of 24 outside limits

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-27DMS

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816906 1.0 MS

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0860.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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	6	
75-35-4	1,1-Dichloroethene	6	
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	6	
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 (MEK)	5	U
74-97-5	Bromochloromethane	5	
67-66-3	Chloroform	7	
107-06-2	1,2-Dichloroethane	6	
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon tetrachloride	28	E
71-43-2	Benzene	5	
79-01-6	Trichloroethene	22	
78-87-5	1,2-Dichloropropane	5	
75-27-4	Bromodichloromethane	6	
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	6	
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	9	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-27DMS

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816906 1.0 MS

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0860.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. Date Analyzed: 06/01/05

GC Column: DB-624 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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-27DMSD

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 816906 1.0 MSD

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0861.D

Level: (low/med) LOW Date Received: 05/25/05

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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	6	
75-35-4	1,1-Dichloroethene	6	
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	6	
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 (MEK)	5	U
74-97-5	Bromochloromethane	5	
67-66-3	Chloroform	7	
107-06-2	1,2-Dichloroethane	6	
71-55-6	1,1,1-Trichloroethane	5	
56-23-5	Carbon tetrachloride	28	E
71-43-2	Benzene	5	
79-01-6	Trichloroethene	23	
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	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

M-27DMSD

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Matrix: (soil/water) WATER Lab Sample ID: 816906 1.0 MSD
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0861.D
 Level: (low/med) LOW Date Received: 05/25/05
 % Moisture: not dec. _____ Date Analyzed: 06/01/05
 GC Column: DB-624 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	

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCHContract: SHAWLab Code: 10145Case No.: R5-26286

SAS No.: _____

SDG No.: M-33SMatrix 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	4.7	94	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	4.7	94	60 - 140
Trichloroethene	5.0	0.0	4.6	92	60 - 140
1,2-Dichloropropane	5.0	0.0	5.0	100	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	4.7	94	60 - 140
1,2-Dibromoethane	5.0	0.0	4.8	96	60 - 140
Bromoform	5.0	0.0	4.9	98	60 - 140
1,4-Dichlorobenzene	5.0	0.0	4.8	96	60 - 140

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS01

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: LCS01

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0831.D

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

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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	7	
75-00-3	Chloroethane	4	
75-69-4	Trichlorofluoromethane	5	
75-35-4	1,1-Dichloroethene	5	
67-64-1	Acetone	26	
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 (MEK)	27	
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	26	
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	9	
95-47-6	o-Xylene	4	
100-42-5	Styrene	4	
79-34-5	1,1,2,2-Tetrachloroethane	5	
75-25-2	Bromoform	5	
541-73-1	1,3-Dichlorobenzene	5	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS01

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: LCS01

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0831.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/31/05

GC Column: DB-624 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	

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 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	5.3	106	60 - 140
Carbon tetrachloride	5.0	0.0	5.3	106	60 - 140
Benzene	5.0	0.0	5.3	106	60 - 140
Trichloroethene	5.0	0.0	4.9	98	60 - 140
1,2-Dichloropropane	5.0	0.0	5.0	100	60 - 140
cis-1,3-Dichloropropene	5.0	0.0	5.0	100	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.1	102	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	5.1	102	60 - 140
1,4-Dichlorobenzene	5.0	0.0	5.2	104	60 - 140

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS02

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821718 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0845.D

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

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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	5	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	6	
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 (MEK)	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	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS02

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821718 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0845.D

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

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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	

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCHContract: SHAWLab Code: 10145Case No.: R5-26286

SAS No.: _____

SDG No.: M-33SMatrix Spike - EPA Sample No LCS03

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Vinyl Chloride	5.0	0.0	4.8	96	60 - 140
1,2-Dichloroethane	5.0	0.0	5.6	112	60 - 140
Carbon tetrachloride	5.0	0.0	5.4	108	60 - 140
Benzene	5.0	0.0	5.2	104	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	5.1	102	60 - 140
1,1,2-Trichloroethane	5.0	0.0	5.5	110	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	5.2	104	60 - 140
1,4-Dichlorobenzene	5.0	0.0	4.7	94	60 - 140

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS03

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: LCS03

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0884.D

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

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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		4	
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		6	
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 (MEK)		5	U
74-97-5	Bromochloromethane		5	
67-66-3	Chloroform		5	
107-06-2	1,2-Dichloroethane		6	
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		6	
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		9	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS03

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: LCS03

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0884.D

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

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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	

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CAS/ROCHContract: SHAWLab Code: 10145Case No.: R5-26286

SAS No.: _____

SDG No.: M-33SMatrix Spike - EPA Sample No LCS04

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

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS04

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-335

Matrix: (soil/water) WATER Lab Sample ID: LCS04

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0932.D

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

% Moisture: not dec. _____ Date Analyzed: 06/08/05

GC Column: DB-624 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	5	U
75-15-0	Carbon Disulfide	1	U
75-09-2	Methylene Chloride	6	
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 (MEK)	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	
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LCS04

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: LCS04

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0932.D

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

% Moisture: not dec. _____ Date Analyzed: 06/08/05

GC Column: DB-624 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	

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID: T0824.D Lab Sample ID: 821716 1.0
 Date Analyzed: 05/31/05 Time Analyzed: 11:55
 GC Column: DB-624 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	LCS01	T0831.D	17:14
02	M-33S	816880 1.0	T0833.D	18:28
03	M-33I	816882 1.0	T0834.D	19:05
04	M-24D	816886 1.0	T0836.D	20:22
05	M-29D	816887 1.0	T0837.D	20:58
06	DGC-3S	816888 1.0	T0838.D	21:35

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821716 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0824.D

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

% Moisture: not dec. _____ Date Analyzed: 05/31/05

GC Column: DB-624 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 (MEK)	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	2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821716 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0824.D

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 05/31/05

GC Column: DB-624 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.

VBK01

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 821716 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0824.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 05/31/05
GC Column: DB-624 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
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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID: T0844.D Lab Sample ID: 821717 1.0
 Date Analyzed: 06/01/05 Time Analyzed: 11:01
 GC Column: DB-624 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	821718 1.0	T0845.D	11:42
02	M-11D	816885 1.0	T0851.D	15:06
03	M-25D	816897 1.0	T0852.D	15:43
04	SYST. EFFLUENT	816898 1.0	T0853.D	16:20
05	SYST. INFLUENT	816899 1.0	T0854.D	16:57
06	DGC-4S	816891 1.0	T0855.D	17:35
07	M-27D	816906 1.0	T0856.D	18:12
08	14D	816902 1.0	T0857.D	18:49
09	DUPA	816907 1.0	T0858.D	19:18
10	TRIP BLANK	816909 1.0	T0859.D	19:55
11	M-27DMS	816906 1.0 MS	T0860.D	20:32
12	M-27DMSD	816906 1.0 MSD	T0861.D	21:09

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821717 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0844.D

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

% Moisture: not dec. _____ Date Analyzed: 06/01/05

GC Column: DB-624 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 (MEK)		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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK02

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Matrix: (soil/water) WATER Lab Sample ID: 821717 1.0
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0844.D
 Level: (low/med) LOW Date Received: _____
 % Moisture: not dec. _____ Date Analyzed: 06/01/05
 GC Column: DB-624 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.

VBK02

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 821717 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0844.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 06/01/05
GC Column: DB-624 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
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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID: T0883.D Lab Sample ID: 821721 1.0
 Date Analyzed: 06/02/05 Time Analyzed: 12:40
 GC Column: DB-624 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	LCS03	LCS03	T0884.D	13:28
02	4D	816884 1.0	T0886.D	14:52
03	M-29DDL	816887 2.0	T0887.D	15:32
04	DUPADL	816907 2.0	T0888.D	16:22
05	COOLER BLANK	816910 1.0	T0890.D	18:13

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821721 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0883.D

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

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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 (MEK)	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	2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821721 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0883.D

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

% Moisture: not dec. _____ Date Analyzed: 06/02/05

GC Column: DB-624 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.

VBK03

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 821721 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0883.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 06/02/05
GC Column: DB-624 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
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4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK04

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID: T0931.D Lab Sample ID: 821722 1.0
 Date Analyzed: 06/08/05 Time Analyzed: 11:46
 GC Column: DB-624 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	LCS04	LCS04	T0932.D	12:32
02	M-25DDL	816897 5.0	T0935.D	14:27

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821722 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0931.D

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

% Moisture: not dec. _____ Date Analyzed: 06/08/05

GC Column: DB-624 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 (MEK)		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		2	U
95-47-6	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
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: CAS/ROCH Contract: SHAW

Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S

Matrix: (soil/water) WATER Lab Sample ID: 821722 1.0

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0931.D

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

% Moisture: not dec. _____ Date Analyzed: 06/08/05

GC Column: DB-624 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.

VBK04

Lab Name: CAS/ROCH Contract: SHAW
Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S
Matrix: (soil/water) WATER Lab Sample ID: 821722 1.0
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: T0931.D
Level: (low/med) LOW Date Received:
% Moisture: not dec. Date Analyzed: 06/08/05
GC Column: DB-624 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
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METALS

-3-

BLANKS

Contract: R2526286

Lab Code:

Case No.:

SAS No.:

SDG NO.: M-33S

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M	
		1	C	2	C	3	C				
Chromium	0.4	U	0.4	U	0.4	U	0.4	U	0.428	U	P

COLUMBIA ANALYTICAL SERVICES

INORGANIC BLANK SPIKE SUMMARY

CAS Submission #: R2526286
Client: Shaw Environmental
GE MRFA PROJECT #810066

BLANK SPIKES

BLANK	FOUND	ADDED	% REC	LIMITS	RUN	UNITS
0.0100 U	0.0990	0.100	99	90 - 109	116494	MG/L

HEXAVALENT CHROMIUM

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S
 Lab File ID: T0810.D BFB Injection Date: 05/27/05
 Instrument ID: GCMS#6 BFB Injection Time: 16:10
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.2
75	30.0 - 66.0% of mass 95	49.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.5 (0.6)1
174	50.0 - 120.0% of mass 95	95.5
175	4.0 - 9.0% of mass 174	5.8 (6.1)1
176	93.0 - 101.0% of mass 174	91.4 (95.7)1
177	5.0 - 9.0% of mass 176	6.4 (7.0)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	VSTD001/025	VSTD001/005	T0812.D	05/27/05	17:35
02	VSTD002/010	VSTD002/010	T0813.D	05/27/05	18:14
03	VSTD005/025	VSTD005/025	T0814.D	05/27/05	19:02
04	VSTD010/050	VSTD010/050	T0815.D	05/27/05	19:43
05	VSTD025/125	VSTD025/125	T0816.D	05/27/05	20:20

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: SDG No.: M-33S
 Lab File ID: T0821.D BFB Injection Date: 05/31/05
 Instrument ID: GCMS#6 BFB Injection Time: 10:08
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.6
75	30.0 - 66.0% of mass 95	49.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	91.4
175	4.0 - 9.0% of mass 174	6.7 (7.3)1
176	93.0 - 101.0% of mass 174	91.3 (99.8)1
177	5.0 - 9.0% of mass 176	6.0 (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	VSTD005/025	#1	T0822.D	05/31/05	10:50
02	VBLK01	821716 1.0	T0824.D	05/31/05	11:55
03	LCS01	LCS01	T0831.D	05/31/05	17:14
04	M-33S	816880 1.0	T0833.D	05/31/05	18:28
05	M-33I	816882 1.0	T0834.D	05/31/05	19:05
06	M-24D	816886 1.0	T0836.D	05/31/05	20:22
07	M-29D	816887 1.0	T0837.D	05/31/05	20:58
08	DGC-3S	816888 1.0	T0838.D	05/31/05	21:35

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID: T0841.D BFB Injection Date: 06/01/05
 Instrument ID: GCMS#6 BFB Injection Time: 09:15
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.4
75	30.0 - 66.0% of mass 95	47.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 120.0% of mass 95	90.4
175	4.0 - 9.0% of mass 174	6.4 (7.1)1
176	93.0 - 101.0% of mass 174	87.8 (97.1)1
177	5.0 - 9.0% of mass 176	5.3 (6.1)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	VSTD005/025	#2	T0842.D	06/01/05	09:52
02	VBLK02	821717 1.0	T0844.D	06/01/05	11:01
03	LCS02	821718 1.0	T0845.D	06/01/05	11:42
04	M-11D	816885 1.0	T0851.D	06/01/05	15:06
05	M-25D	816897 1.0	T0852.D	06/01/05	15:43
06	SYST. EFFLUENT	816898 1.0	T0853.D	06/01/05	16:20
07	SYST. INFLUENT	816899 1.0	T0854.D	06/01/05	16:57
08	DGC-4S	816891 1.0	T0855.D	06/01/05	17:35
09	M-27D	816906 1.0	T0856.D	06/01/05	18:12
10	14D	816902 1.0	T0857.D	06/01/05	18:49
11	DUPA	816907 1.0	T0858.D	06/01/05	19:18
12	TRIP BLANK	816909 1.0	T0859.D	06/01/05	19:55
13	M-27DMS	816906 1.0 MS	T0860.D	06/01/05	20:32
14	M-27DMSD	816906 1.0 MSD	T0861.D	06/01/05	21:09

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID: T0880.D BFB Injection Date: 06/02/05
 Instrument ID: GCMS#6 BFB Injection Time: 10:39
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	46.8
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	0.4 (0.5)1
174	50.0 - 120.0% of mass 95	88.3
175	4.0 - 9.0% of mass 174	6.4 (7.2)1
176	93.0 - 101.0% of mass 174	86.8 (98.3)1
177	5.0 - 9.0% of mass 176	5.8 (6.7)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	VSTD005/025	#3	T0881.D	06/02/05	11:23
02	VBLK03	821721 1.0	T0883.D	06/02/05	12:40
03	LCS03	LCS03	T0884.D	06/02/05	13:28
04	4D	816884 1.0	T0886.D	06/02/05	14:52
05	M-29DDL	816887 2.0	T0887.D	06/02/05	15:32
06	DUPADL	816907 2.0	T0888.D	06/02/05	16:22
07	COOLER BLANK	816910 1.0	T0890.D	06/02/05	18:13

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID: T0929.D BFB Injection Date: 06/08/05
 Instrument ID: GCMS#6 BFB Injection Time: 10:25
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	17.4
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	7.2
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	93.7
175	4.0 - 9.0% of mass 174	6.1 (6.5)1
176	93.0 - 101.0% of mass 174	91.7 (97.9)1
177	5.0 - 9.0% of mass 176	5.8 (6.3)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	VSTD005/025	#4	T0930.D	06/08/05	11:06
02	VBLK04	821722 1.0	T0931.D	06/08/05	11:46
03	LCS04	LCS04	T0932.D	06/08/05	12:32
04	M-25DDL	816897 5.0	T0935.D	06/08/05	14:27

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID (Standard): T0822.D Date Analyzed: 05/31/05
 Instrument ID: GCMS#6 Time Analyzed: 10:50
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		619054	7.08	492676	9.75	254731	11.32
UPPER LIMIT		1238108	7.58	985352	10.25	509462	11.82
LOWER LIMIT		309527	6.58	246338	9.25	127366	10.82
EPA SAMPLE							
NO. _____							
01	VBLK01	606462	7.09	503138	9.76	243404	11.32
02	LCS01	620243	7.08	497065	9.76	250978	11.32
03	M-33S	586211	7.09	475515	9.75	230727	11.32
04	M-33I	576559	7.09	480202	9.76	231770	11.32
05	M-24D	545369	7.09	459136	9.76	226183	11.32
06	M-29D	541822	7.09	459922	9.76	221361	11.32
07	DGC-3S	536390	7.09	453560	9.76	225124	11.32

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-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: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID (Standard): T0842.D Date Analyzed: 06/01/05
 Instrument ID: GCMS#6 Time Analyzed: 09:52
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		545564	7.09	458489	9.76	236146	11.32
UPPER LIMIT		1091128	7.59	916978	10.26	472292	11.82
LOWER LIMIT		272782	6.59	229245	9.26	118073	10.82
EPA SAMPLE NO.							
01	VBLK02	552190	7.09	454430	9.76	216359	11.32
02	LCS02	563637	7.09	452630	9.76	235200	11.32
03	M-11D	566550	7.09	469857	9.76	228099	11.32
04	M-25D	552228	7.09	465425	9.76	228471	11.32
05	SYST. EFFLUENT	527564	7.09	450190	9.76	225381	11.32
06	SYST. INFLUENT	530048	7.09	447211	9.76	224041	11.32
07	DGC-4S	536670	7.09	467364	9.76	223910	11.32
08	M-27D	557470	7.09	473630	9.75	225269	11.32
09	14D	540194	7.09	467334	9.76	227099	11.32
10	DUPA	520018	7.09	459923	9.76	225778	11.32
11	TRIP BLANK	517732	7.09	443236	9.76	218656	11.32
12	M-27DMS	533127	7.09	450798	9.76	247796	11.32
13	M-27DMSD	544494	7.09	452730	9.76	243187	11.32

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-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: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID (Standard): T0881.D Date Analyzed: 06/02/05
 Instrument ID: GCMS#6 Time Analyzed: 11:23
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		565772	7.09	461602	9.76	231635	11.32
UPPER LIMIT		1131544	7.59	923204	10.26	463270	11.82
LOWER LIMIT		282886	6.59	230801	9.26	115818	10.82
EPA SAMPLE NO. _____							
01	VBLK03	513018	7.09	437974	9.76	216123	11.32
02	LCS03	566298	7.09	453468	9.76	245296	11.32
03	4D	543182	7.09	464282	9.75	220845	11.32
04	M-29DDL	525262	7.09	447672	9.76	215531	11.32
05	DUPADL	503743	7.09	435149	9.76	215770	11.32
06	COOLER BLANK	517905	7.08	433626	9.75	206767	11.32

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CAS/ROCH Contract: SHAW
 Lab Code: 10145 Case No.: R5-26286 SAS No.: _____ SDG No.: M-33S
 Lab File ID (Standard): T0930.D Date Analyzed: 06/08/05
 Instrument ID: GCMS#6 Time Analyzed: 11:06
 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1		IS2		IS3	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		618707	7.09	502362	9.76	265620	11.32
UPPER LIMIT		1237414	7.59	1004724	10.26	531240	11.82
LOWER LIMIT		309354	6.59	251181	9.26	132810	10.82
EPA SAMPLE							
NO.							
01	VBLK04	581128	7.09	504115	9.76	247148	11.32
02	LCS04	601019	7.09	505649	9.75	268842	11.32
03	M-25DDL	577153	7.09	482662	9.76	238436	11.32

IS1 = 1,4-Difluorobenzene
 IS2 = Chlorobenzene-d5
 IS3 = 1,4-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 C
DATA VALIDATION REPORTS

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, N. Y. 12853

Phone 518-251-4429

Facsimile 518-251-4428

July 27, 2005

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

RE: Validation of MRFA Malta Site Data Packages
CAS Sub Nos. R2525121 and R2526286

Dear Mr. Neumann:

Review has been completed for the data packages generated by Columbia Analytical Services (CAS), pertaining to aqueous samples collected 2/28/05 and 5/24/05 at the MRFA Malta Site. Seventeen samples (including two field duplicates) and cooler and trip blanks were processed for site-specific low level volatiles. One of these and two additional samples (including 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

Those 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 volatile results as estimated, or with edit to nondetection. These are discussed in the following analytical sections.

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

Data Completeness

Data packages were complete as received, and no resubmissions were required.

Low Level Volatile Analyses

The results for analyte carbon tetrachloride in M-25D, M-29D, and DUPA, and the result for trichloroethene in M-25D, all of which are initially flagged as "E" by the laboratory, are to be derived from the dilution analyses of the samples.

The results for carbon tetrachloride and trichloroethene in M-25D are qualified estimated ("J") due to the fact that the dilution analysis of the sample was performed beyond the allowable holding time.

Due to presence in the associated trip and/or cooler blanks, the detections of acetone in Effluent and DUPA are considered external contamination, and edited to nondetection at the CRDL.

Additionally, due to the low level detection of chloroform in the associated cooler blank, the detection of that compound in M-24D, M-27D, and System Influent are similarly considered and qualified.

The following analytes exhibited low relative response factors (RRFs) in the calibration standards that are inherent with the methodology. The usability of those data are evidenced by spike recoveries and standard areas, but their reporting limits in all of the project samples should be considered estimated ("UJ" qualifier), possibly biased low: acetone, 2-butanone, and 1,2-dibromo-3-chloropropane.

Matrix spikes of Influent and M-27D show acceptable accuracy and precision, with the exception of one duplicate correlation in the former that is 2 percentage points above the recommended limit. Recoveries of that analyte were acceptable, and no qualification is made.

Volatile field duplicate correlations for Effluent/DUPA and M-29D/DUPA are within validation guidelines.

The laboratory Forms 8A show incorrect acceptance limits for internal standard responses. The sample analyses meet the protocol requirement.

Total Chromium Analyses

Accuracy and precision of M-27D (as shown by matrix spike and duplicate evaluation) were acceptable. The ICP serial dilution evaluation was also performed on M-27D, and the evaluation was not applicable due to the low sample concentration. The serial dilution should have been performed on the other sample to allow that evaluation.

Field duplicate correlation for 13D and DUPA was acceptable.

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.

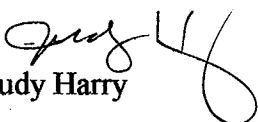
Hexavalent Chromium Analyses

Accuracy and precision of M-27D (as shown by matrix spike and duplicate evaluation), and the field duplicate correlation for 13D and DUPB were within guidelines.

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

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

Very truly yours,


Judy Harry

[illegible]

SDG#:M-33S
SUBMISSION R2526286
CLIENT: Shaw Environmental
CLIENT REP: Janice Jaeger
PROJECT: GE MRFA PROJECT #810066
BATCH COMPLETE: yes
DISKETTE REQUESTED: Y x N
DATE: 5/25/05
CUSTODY SEAL: PRESENT/ABSENT:
CHAIN OF CUSTODY: PRESENT/ABSENT:
DATE REVISED:
DATE DUE: 06/22/05
PROTOCOL: SW-846
SHIPPING No.:
SUMMARY PKG: Y x N

[illegible]

SDG#:M-33S

SUBMISSION R2526286

0 BATCH COMPLETE: yes

DISKETTE REQUESTED: Y_x_N

DATE REVISED:

DATE DUE: 06/22/05

BATCHIN1

5/25/2005

CASE NARRATIVE

COMPANY: Shaw Environmental
MRFA Project #810066
SUBMISSION #: R2525121

Shaw water samples were collected on 02/28/05 and received at CAS on 03/01/05 in good condition at a cooler temperature of 3 C.

VOLATILE ORGANICS

Three water samples, one cooler blank and one trip blank were analyzed for a Site Specific List of Volatiles by method OLC 2.1.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within limits.

All surrogate standard recoveries were within limits.

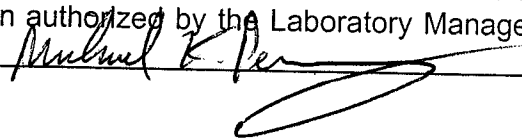
All samples were analyzed within required holding times.

Site specific QC was performed on Influent. All MS/MSD recoveries were within limits. All Blank Spike recoveries were within limits. All RPD's were within limits.

The Trip Blank and Cooler blank contained low level hits for Acetone and Chloroform.

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

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 conditions detailed above. Release of the data contained in the hard copy package has been authorized by the Laboratory Manager or his designee, as verified by the following signature; 

CASE NARRATIVE

COMPANY: Shaw Environmental
MRFA Project #810066
SUBMISSION #: R2526286

Shaw water samples were collected on 05/24/05 and received at CAS on 05/25/05 in good condition at a cooler temperature of 4 C.

INORGANICS

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

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

No other QC and analytical problems were encountered.

VOLATILE ORGANICS

Fourteen water samples, one cooler blank and one trip blank were analyzed for a Site Specific List of Volatiles by method OLC 2.1.

All Tuning criteria for BFB were within limits.

The initial and continuing calibration criteria were met for all analytes.

All internal standard areas were within limits.

All surrogate standard recoveries were within limits.

Various compounds for M-29D, M-25D and DUPA have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out. Please note: Due to a laboratory error, the dilution for M-25D was analyzed 4 days outside the recommended holding time of 10 days from VTSR.

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

Site specific QC was performed on M-27D. All MS/MSD recoveries were within limits. All Blank Spike recoveries were within limits. All RPD's were within limits except Trichloroethene and has been flagged with an "**".

The Cooler blank contained a low level hit for Chloroform.

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

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 conditions detailed above. Release of the data contained in the hard copy package has been authorized by the Laboratory Manager or his designee, as verified by the following signature: 