



**FINAL SEMI-ANNUAL O&M REPORT
REMEDIAL WORK ELEMENTS II AND IV
REPORTING PERIOD JANUARY 1, 2011 THROUGH JUNE 30,
2011**

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

August 2, 2011

Submitted to:

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

Submitted by:

Shaw Environmental & Infrastructure, Inc.
13 British American Boulevard
Latham, New York 12110

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



Brian Neumann, PG, CPG
Project Manager

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1.0 INTRODUCTION

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

This report has been prepared in accordance with the following documents:

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

This report covers all site activities performed at the Site, as required in each of the previously referenced documents, for the period from January 1 through June 30, 2011.

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

2.1 Sample Collection

Modifications to the Early Warning Monitoring System (EWMS) monitoring program have been specified in Addendum No. 1, Operations and Maintenance Manual, Remedial Work Element II-Groundwater, Malta Rocket Fuel Area Site, General Electric Company, January 31, 2005 (Addendum No. 1). In accordance with the Operations and Maintenance Manual for Remedial Work Element II - Ground Water, ERM Northeast, Inc., January 22, 1998, (O&M-GW) and Addendum No. 1, unfiltered groundwater samples were collected on October 26 and 27, 2010 from the EWMS. In accordance with the Five-Year Review Report, Malta Rocket Fuel Area Superfund Site, United States Environmental Protection Agency (EPA), September 24, 2004 (Five Year Review Report) including a table titled “Proposed Modifications to Groundwater and Surface Water Sampling Regimes at the Malta Rocket Fuel Area Site”, a letter from GE to the USEPA dated October 26, 2004. During this reporting period EWMS samples were collected from monitoring wells DGC-3S, DGC-4S, 11D, 13D, M-24DR, M-25D, M-27D and M-29D (**Figure 1**). Surface water samples were collected from locations SW-A, SW-B, SW-D, SW-E, SW-F and SW-G (**Figure 1**). Current sample locations were approved by the USEPA on October 29, 2009. Blind duplicate samples were collected from well M-27D for VOCs, and 13D for VOCs, chromium and hexavalent chromium. Trip blanks were also analyzed.

Samples from all designated sampling locations were analyzed for VOCs by USEPA Method OLC-02.1 by Columbia Analytical Services, Inc. in Rochester, New York. Samples from wells 13D, M-27D and surface water SW-B 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 2011 semi-annual EWMS sampling event are summarized in **Table 1**. The laboratory reports are presented in **Appendix A**. The data validation report is included in **Appendix B**. 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 2, 3, and 4**.

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

2.2 Chromium Analytical Results

Unfiltered total chromium was detected in monitoring well 13D at a concentration of 14.1 µg/l. The New York State Ground Water Standard (NYSGWS) for total chromium is 50 µg/l. Total chromium was non-detect for sample location SW-B during this reporting period.

Analytical results showed no detectable concentrations of hexavalent chromium at the method detection limit for all sample locations (13D, M-27D, SW-B) during the reporting period. The NYSGWS for hexavalent chromium is 50 µg/l.

2.3 VOC Analytical Results

Carbon tetrachloride was detected in monitoring wells 11D, M-24DR, M-25D, M-27D and M-29D at concentrations of 8.9 µg/l, 2.6 µg/l, 32 µg/l, 8.3 µg/l and 25 µg/l, respectively. All other sample locations were non-detect for carbon tetrachloride during the reporting period. The time versus concentration plot for carbon tetrachloride in well M-27D is presented in **Figure 2**. The NYSGWS for carbon tetrachloride is 5 µg/l.

Chloroform was detected in monitoring wells M-27D and M-29D at concentrations of 1.1 µg/l and 2.1 µg/l respectively. In addition chloroform was detected at estimated concentrations in monitoring wells 11D, 13D, M-24DR and M-25D at concentrations of 0.96 µg/l, 0.16 µg/l, 0.11 µg/l, and 3.2 µg/l, respectively. The NYSGWS for chloroform is 7 µg/l. All other sample locations were non-detect for chloroform during the reporting period.

Trichloroethene (TCE) was detected in monitoring wells 11D, M-24DR, M-25D, M-27D and M-29D at concentrations of 1.3 µg/l, 9.5 µg/l, 79 µg/l, 6.7 µg/l and 23 µg/l, respectively. 1,1,1-Trichloroethane was detected in monitoring well M-29D at a concentration of 4.4 µg/l. The NYSGWS for TCE, trichlorofluoromethane and 1,1,1-trichloroethane is 5 µg/l. TCE, trichlorofluoromethane and 1,1,1-trichloroethane were not detected at the remainder of the sample locations during this reporting period.

Acetone was detected at estimated concentrations in monitoring well M-24DR (2.1 µg/l) and surface water samples SW-D (1.1 µg/l), SW-E (3.6 µg/l) and SW-G (0.94 µg/l). The NYSGWS for acetone is 50 µg/l.

2.4 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 higher than the observed concentrations.

3.0 INSTITUTIONAL CONTROLS

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

4.0 SUMMARY

4.1 Early Warning Monitoring System (EWMS)

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

- Chromium was detected in monitoring well 13D at a concentration of 14.1 µg/l. The chromium detection was below the NYSGWS of 50 µg/l.
- Hexavalent chromium was not detected at the any of the sample locations.
- Carbon tetrachloride was detected in monitoring wells 11D, M-24DR, M-25D, M-27D and M-29D at concentrations of 8.9 µg/l, 2.6 µg/l, 32 µg/l, 8.3 µg/l, and 25 µg/l, respectively. All other sample locations contained either estimated concentrations or were non-detect for carbon tetrachloride during the reporting period. The NYSGWS for carbon tetrachloride is 5 µg/l.
- Chloroform was detected in monitoring wells M-27D and M-29D at concentrations of 1.1 µg/l and 2.1 µg/l, respectively. In addition chloroform was detected at estimated concentrations in monitoring wells 11D, 13D, M-24DR and M-25D at concentrations of 0.96 µg/l, 0.16 µg/l, 0.11 µg/l and 3.2 µg/l, respectively. The NYSGWS for chloroform is 7 µg/l.
- TCE was detected in monitoring wells in 11D, M-24DR, M-25D, M-27D, and M-29D at concentrations of 1.3 µg/l, 9.5 µg/l, 79 µg/l, 6.7 µg/l, and 23 µg/l, respectively. 1,1,1-Trichloroethane was detected in monitoring wells M-29D at a concentration of 4.4 µg/l. TCE, trichlorofluoromethane and 1,1,1-trichloroethane were not detected at the remainder of the sample locations during this reporting period. The NYSGWS for TCE, trichlorofluoromethane and 1,1,1-trichloroethane is 5 µg/l.
- As shown in **Figure 3**, simulated concentrations of carbon tetrachloride are much higher than the observed concentrations. The NYSGWS for carbon tetrachloride is 5 µg/l.

TABLE 1
MAY 2011 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	DGC-3S	DGC-4S	11D	13D	DUP 13D	M-24DR	M-25D	M-27D	DUPE M-27D
Acetone	50	5 UJ	5 UJ	5 UJ	1.1 J	5 UJ	2.1J	25 UJ	5 UJ	5 UJ
Carbon Disulfide	None*	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
Carbon Tetrachloride	5	1 U	1 U	8.9	0.99 J	1.2	2.6	32	8.3	8.4
Chloroform	7	1 U	1 U	0.96 J	0.16 J	0.18 J	0.11 J	3.2 J	1.1	1.1
2-Butanone	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 U	25 UJ	5 UJ	5 UJ
Trichloroethene	5	1 U	1 U	1.3	1 U	1 U	9.5	79	6.7	7
Trichlorofluoromethane	5*	1 U	1 U	1 U	1 U	1 U	1 U	5 U	0.13 J	0.13 J
1,1,1-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
1,1-Dichloroethene	NP	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U
cis-1,2-Dichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1.1 J	1 U	1 U
Chromium	50*	NA	NA	NA	14.1	15.6	NA	NA	0.964 J	1.2 J
Hexavalent Chromium	50*	NA	NA	NA	0.10 U	0.10 U	NA	NA	0.10 U	0.10 U

Field Parameters										
pH	--	5.94	7.93	7.72	7.95	--	11.12	7.56	7.89	--
Temperature (celsius)	--	7.69	8.72	8.39	9.43	--	11.82	8.95	8.61	--
Conductivity (umhos/cm)	--	0.033	0.205	0.197	0.196	--	0.189	0.254	0.234	--
Dissolved Oxygen (%)	--	96.10	45.7	90.4	21.0	--	99.60	96.8	82.9	--
Turbidity (NTUs)	--	71.3	112.9	20.8	240.1	--	1.4	2.3	2.5	--
Depth To Water (feet)	--	8.30	3.25	26.22	37.62	--	34.25	26.77	35.59	--
Ground Water Elevation (feet)	--	197.50	202.55	293.46	291.65	--	286.32	287.69	285.99	--

Notes:

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

TABLE 1
MAY 2011 WATER QUALITY ANALYTICAL RESULTS
SEMI-ANNUAL SAMPLING

Compound	Remedial Action Objective	M-29D	Trip Blank	Trip Blank	SW-A	SW-B	SW-D	SW-E	SW-F	SW-G
Acetone	50	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	1.1 J	3.6 J	5 UJ	0.94 J
Carbon Disulfide	None*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	25	1 U	1 U	1 U	0.17 J	1 U	1 U	1 U	1 U
Chloroform	7	2.1	1 U	1 U	0.35 J	1 U	1 U	1 U	1 U	1 U
2-Butanone	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Trichloroethene	5	23 D	1 U	1 U	1 U	0.32 J	1 U	1 U	1 U	1 U
Trichlorofluoromethane	50*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5	4.4	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	NP	0.23 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	0.19 J	1 U	1 U	1U	1U	1U	1U	1U	1U
Chromium	50*	NA	NA	NA	NA	0.812 U	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	0.10 U	NA	NA	NA	NA

Field Parameters										
pH	--	7.76	--	--	7.72	7.88	7.56	7.84	7.70	7.90
Temperature (celsius)	--	8.74	--	--	12.25	13.07	12.65	12.36	12.34	10.53
Conductivity (umhos/cm)	--	0.237	--	--	0.266	0.264	0.305	0.230	0.212	0.205
Dissolved Oxygen	--	97.5	--	--	8.95	7.95	8.75	9.01	9.68	9.95
Turbidity (NTUs)	--	0.4	--	--	1.4	0.8	1.9	16.8	10.2	0.4
Depth To Water (feet)	--	42.20	--	--	--	--	--	--	--	--
Ground Water Elevation (feet)	--	292.46	--	--	--	--	--	--	--	--

Notes:

1. All analytical concentrations are in µg/l (micrograms per liter (ppb))unless otherwise noted.
2. Only compounds detected at one or more sampling points are listed.
3. NA - not analyzed for.
4. U - analyte was not detected, and value shown is the detection limit.
5. J - estimated value due to data validation requirements or concentration less than CRQL (organics only).
6. B - The reported value is less than the CRDL but greater than the IDL (inorganics only).

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

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

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

TABLE 2
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2011
SEMI-ANNUAL SAMPLING

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

DGC-4S												
Carbon Disulfide	None*	--	--	--	--	--	--	--	--	--	--	--
Chromium	50*	--	--	--	--	--	--	--	--	--	--	--

13S												
Benzene	0.7*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

See RI report for additional data.

TABLE 2
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2011
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective											
		11/30/1989	5/30/90	8/28/90	12/6/90	4/8- 4/10/1991	6/12- 6/13/1991	9/23- 9/24/1991	12/26- 12/27/91	2/10- 2/11/92	6/1- 6/2/1992	9/28- 9/29/1992
Benzene	0.7*	ND	ND	ND	ND	ND	ND	0.2 J	ND	ND/NDdp	ND	ND
Carbon Disulfide	None*	ND	ND	ND	NA	8 V / 7 Vdp	4	ND	ND	ND/NDdp	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	6.1	62.2E/70.3Edp	16.2/ND*, 14.6/ND*dp	25.2/ND*	ND
Hexavalent Chromium	50*	no data	NA	NA	NA	NA	NA	NA	NA	ND/4*/ND dp	NA	NA
DGC-4S												
Carbon Disulfide	None*	- -	- -	- -	- -	ND/0.5Vdp	ND	ND	ND	ND	ND	ND/ND dp
Chromium	50*	- -	- -	- -	- -	NA	NA	15.9	11.9 E	ND/ND*	ND/ND*	ND/ND dp
13S												
Benzene	0.7*	NA	NA	NA	NA	2	0.7/0.6 Jdp	1	ND	ND	ND	ND
Carbon Disulfide	None*	NA	NA	NA	NA	60 D	0.6	ND	ND	ND	ND	ND
Carbon Tetrachloride	5	NA	18/16 dp	6.4	4.4	8	24 J/24 Jdp	8	12	9	6 J	9
Chloroform	7	NA	ND	ND	ND	ND	0.8/0.9 Jdp	ND	0.4 J	0.3 J	ND	ND
Trichloroethene	5	NA	ND	ND	ND	ND	ND	0.4 J	0.9	0.6	ND	0.6
Trichlorofluoromethane	5*	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5
Chromium	50*	NA	NA	NA	NA	336 V	NA	269/261**	316 E/562 E**	282/498**	504/512**	179/172**
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	280	486/302**	260/310**	NA	287

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

See RI report for additional data.

TABLE 2
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2011
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial											
	Action Objective	11/18-11/19/1992	3/17-3/18/1993	5/25-5/26/1993	8/24-8/25/1993	11/8-11/9/1993	2/22-2/23/1994	5/18-5/19/1994	8/24-8/25/1994	11/15-11/16/1994	5/23/1995	10/17/1995
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND V	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	0.8	ND	ND	ND V	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	33.6/ND*	18.5	4.3 B	4.7B	19.4	23.9	4.5 B	9.9 B	11.1	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DGC-4S

Carbon Disulfide	None*	4 V	ND	0.3 J	0.2J	ND	ND	ND V/ND V dp	ND	ND	ND	ND
Chromium	50*	8.6 B	48.1/ND*	ND	3.3B	ND	31.2/ND*	ND/ND dp	5.6 B	ND	NA	NA

13S

Benzene	0.7*	0.4 JV	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	NA	NA
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND/ND dp	ND	ND	ND	NA	NA
Carbon Tetrachloride	5	16 V	15	10	17	18	20/9 dp	9	9	9	NA	NA
Chloroform	7	0.6 V	0.6	0.4 J	0.6	0.7	ND/ND dp	0.4 J	0.3 J	ND	NA	NA
Trichloroethene	5	1 V	2	0.6	ND	2	2/1 dp	0.8	1	0.9	NA	NA
Trichlorofluoromethane	5*	0.9 V	2	0.5	ND	2	2/1 dp	0.9	1	ND	NA	NA
Chromium	50*	585/576**	746/614**	198/609**	787/716**	572/610**	580/357** 567/357** dp	406/434**	133 V/157 V**	44.2 V/95.8 V**	140 J	52.7 J
Hexavalent Chromium	50*	493	663	460	800	560	530/540 dp	340	101	36	150	48

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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dp = Duplicate sample.

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D = Concentration determined from a sample dilution.

J = Estimated concentration.

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** = Filtered Sample.

See RI report for additional data.

TABLE 2
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MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2011
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial											
	Action Objective	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999	10/26/1999	5/22/2000	10/24/2000	5/15/2001
DGC-3S												
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S												
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S												
Benzene	0.7*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	None*	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	NA	NA	1U	8	NA	NA	NA	NA	NA	NA	NA
Chloroform	7	NA	NA	1U	1U	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	44.8	46.4	90.7/90.9**	71.4	71.2	98.6 J	72.4	169	249	29.9	136
Hexavalent Chromium	50*	47	47	97	67	51	54.0 J	71.0	178	262	41	12.3

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

See RI report for additional data.

TABLE 2
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2011
SEMI-ANNUAL SAMPLING

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

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

NS = Not sampled.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

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

** = Filtered Sample.

See RI report for additional data.

TABLE 2
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS DGC-3S, DGC-4S, 13S
JUNE 1987 - MAY 2011
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective									
		5/14/2007	10/16/2007	5/15/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010	10/26/2010	5/18/2011
DGC-3S										
Benzene	0.7*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aluminum	100*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
DGC-4S										
Carbon Disulfide	None*	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA
13S										
Benzene	0.7*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	None*	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
Trichlorofluoromethane	5*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	50*	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexavalent Chromium	50*	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.

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

dp = Duplicate sample.

E = Estimated concentration: due to interference.

D = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

* Based on NYSDEC Final Combined Regulatory Impact and Environmental

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

for comparison purposes only.

** = Filtered Sample.

See RI report for additional data.

TABLE 3
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2011
SEMI-ANNUAL SAMPLING

Remedial Action													
M-27S	Objective	6/5/1992	11/11/1992	3/14/1994	5/23/1995	10/17/1995	5/14/1996	10/23/1996	6/2/1997	10/14/1997	5/28/1998	10/29/1998	5/11/1999
Carbon Disulfide	None*	ND	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	0.85 J
Chloromethane	5	40	ND	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50*	8.4 B/ND**	57.4/ND**	not sampled	ND	ND	ND	ND	ND	ND	ND	3.2 BJ	0.98B
Hexavalent Chromium	50*	NA	NA	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND

M-27D

Carbon Tetrachloride	5	75/62 dp	23	not sampled	33/42 dp	56	31	28	26	22	27	26 / 27 dp	20.3 / 20.1 dp
Chloroform	7	ND	3	not sampled	4/4 dp	5	3	3	3	2	3	2 / 2 dp	1.8 / 1.8 dp
Chloromethane	5	4 J/28 dp	ND	not sampled	ND/ND dp	ND	ND	ND	ND	ND	ND	ND / ND	ND / ND dp
Trichloroethene	5											ND/ND dp	4.1/4.1 dp
Trichlorofluoromethane	5*	no data	no data	not sampled	no data	no data	no data	no data	no data	no data	no data	0.3 J / 0.3 J dp	0.92J / 0.99J dp
Chromium	50*	2.0 B/ND**	19.8/ND**	not sampled	ND/ND dp	ND	ND	ND	ND	1.2B	ND	4.6 BJ /	1.4 B /
Hexavalent Chromium	50*	NA	NA	not sampled	ND/ND dp	ND	ND	ND	ND	ND	ND	ND / ND dp	ND / ND dp

M-33S

VOCs	-	not sampled	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
------	---	-------------	-------------	----	----	----	----	----	----	----	----	----	----

M-33I

VOCs	-	not sampled	not sampled	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
------	---	-------------	-------------	----	----	----	----	----	----	----	----	----	----

Notes:

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

Only detected compounds are listed.

NA = Not analyzed.

ND = Not detected.

J = Estimated concentration.

dp = Duplicate sample.

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

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

** = Filtered Sample.

TABLE 3
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2011
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 = Identifies 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 3
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS M-27S, M-27D, M-33S, M-33I
JUNE 1992 - MAY 2011
SEMI-ANNUAL SAMPLING

Remedial Action		10/2005	5/23/2006	10/16/2006	5/14/2007	10/16/2007	5/14/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010	10/26/2010	5/18/2011
M-27S	Objective												
Carbon Disulfide	None*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS
Chloromethane	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS
Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS
Hexavalent Chromium	50*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS

M-27D													
Carbon Tetrachloride	5	13	22	12	15	10	11	9	7.6	5.8	4.2	6.9	8.3
Chloroform	7	ND	2	0.76J	2	0.7J	ND	0.6 J	0.30 J	0.31 J	ND	0.61 J	1.1
Chloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	0.13 J	ND	ND	ND
Trichloroethene	5	24	16	21	15	14	13	11	11	10	9.3	8.2	6.7
Trichlorofluoromethane	5*	1.0	1 J	1.0	0.9J	0.8J	0.6J	0.3 J	0.15 J	ND	ND	ND	0.13J
Chromium	50*	1.6 B	2.7	1.7 BJ	ND	ND	ND	0.810	0.88	ND	1.1 J	10 U	ND
Hexavalent Chromium	50*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

M-33S													
VOCs	-	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--

M-33I													
VOCs	-	ND	ND	ND	ND	ND	NA	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 = Identifies compound analyzed at a secondary dilution factor.

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

** = Filtered Sample.

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

TABLE 4
SUMMARY OF WATER QUALITY ANALYTICAL RESULTS
MONITORING WELLS 4D, 11D, M-24D, M-25D, M-29D, 13D
JUNE 1992 - MAY 2011
SEMI-ANNUAL SAMPLING

Wells / Compounds	Remedial Action Objective	6/1-6/2/1992	11/18-11/19/1992	11/2004	5/24/2005	10/24/2005	5/23/2006	10/16/2006	5/14/2007	10/16/2007	5/14/2008	10/13/2008	5/13/2009	11/11/2009	5/19/2010	10/26/2010	5/18/2011
4D																	
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NS	ND	ND	NS
11D																	
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	NS	ND	ND	ND
Carbon Tetrachloride	5	ND	6	4.6	13	14	15	12	12	13	11	10	11	NS	11	7.7	8.9
Chloroform	7	ND	3	ND	4.0	3.0	4.0	3.0	3	2	ND	2	1.4	NS	1.3	0.82 J	0.96 J
Trichloroethene	5	91	7	ND	0.8 J	0.91	1 J	2.0	1	1	1	2	1.6	NS	1.5	1.9	1.3
M-24D																	
Acetone	50	ND	ND R	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
Carbon Tetrachloride	5	10	0.7	0.59 J	10	10	11	11	10	9	9	10	---	---	---	---	---
Chloroform	7	ND	ND	ND	0.6 J	0.51	0.5 J	0.44 J	0.4 J	0.4 J	ND	0.3 J	---	---	---	---	---
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---
M-24DR																	
Acetone	50	--	--	--	--	--	--	--	--	--	--	--	ND	ND	ND	ND	2.1
Carbon Tetrachloride	5	--	--	--	--	--	--	--	--	--	--	--	16	13	5.5	4.9	2.6
Chloroform	7	--	--	--	--	--	--	--	--	--	--	--	0.68 J	0.43 J	0.25 J	0.25 J	0.11J
Trichloroethene	5	--	--	--	--	--	--	--	--	--	--	--	49	39	18	19	9.5
M-25D																	
Acetone	50	ND	ND R	ND	ND	ND	49 D*	25 JD	ND	ND	ND	ND	7.3 J	ND	ND	ND	ND
Carbon Tetrachloride	5	48	27R	86.8 D	81 D	91	76 D*	71 D	60	65	56	52	52	40	35	34	32
Chloroform	7	ND	3R	8.7	8.0	9.0	8 D*	7 D	7	6	ND	4	3.8 J	3.0 J	3.0 J	3.2 J	3.2 J
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1J
Trichloroethene	5	3J	8R	16.1	35 D	37	28 D*	22 D	31	34	52	79 D	93	79	76	73	79
M-29D																	
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4
1,1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23J
Acetone	50	ND	ND R	ND	ND	ND	16 D*	ND	ND	ND	ND	ND	4.4 J	ND	ND	ND	ND
Carbon Tetrachloride	5	79	84	10.8	38 D	37	39 D*	33 D	32	34	33	32	30	27	28	27	27E
Chloroform	7	ND	14	ND	4.0	5.0	5 D*	4 D	3	3	ND	2	2.5	2.7	2.8	2.4	2.1
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19J
Trichloroethene	5	19	24	6.0	14	13	14 D*	12 D	11	11	11	10	11	16	21	22	25E
13D																	
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1J
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.99J
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16J
Chromium	50*	98.4	38.9 J	4.5 B	78.3	60.8 J	11	17.1	25.3	5.2B	13.2	7.3	7.1	4.0 J	3.4 J	16.1	ND
Hexavalent Chromium	50*	NA	NA	10 U	10 U	10 U	10 U	14.2	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	ND

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.

R = Analysis rejected

D* = Concentration determined from a sample dilution.

J = Estimated concentration.

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

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

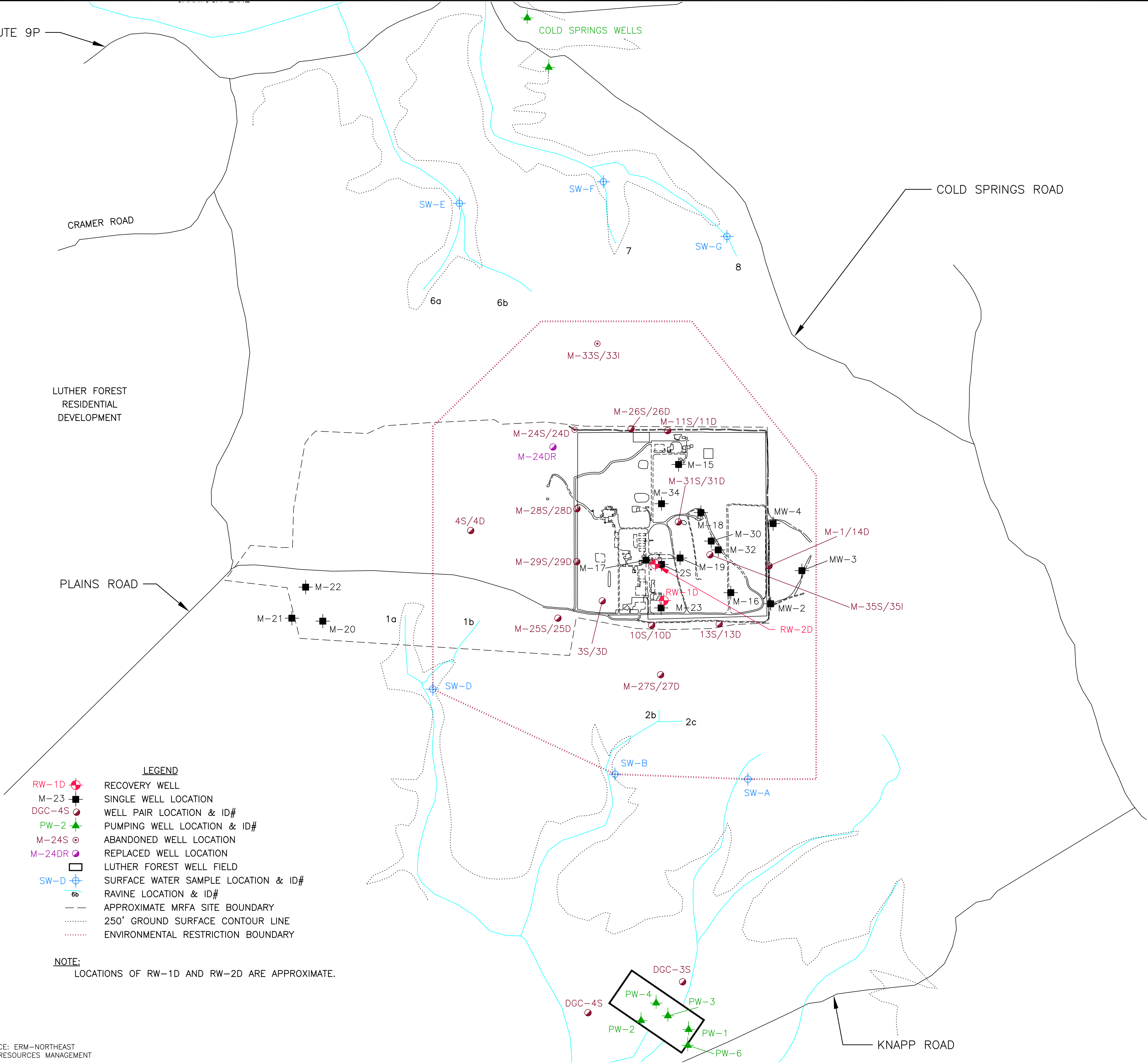
--- = Well Removed according to instruction by Environmental Protection Agency

* 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

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



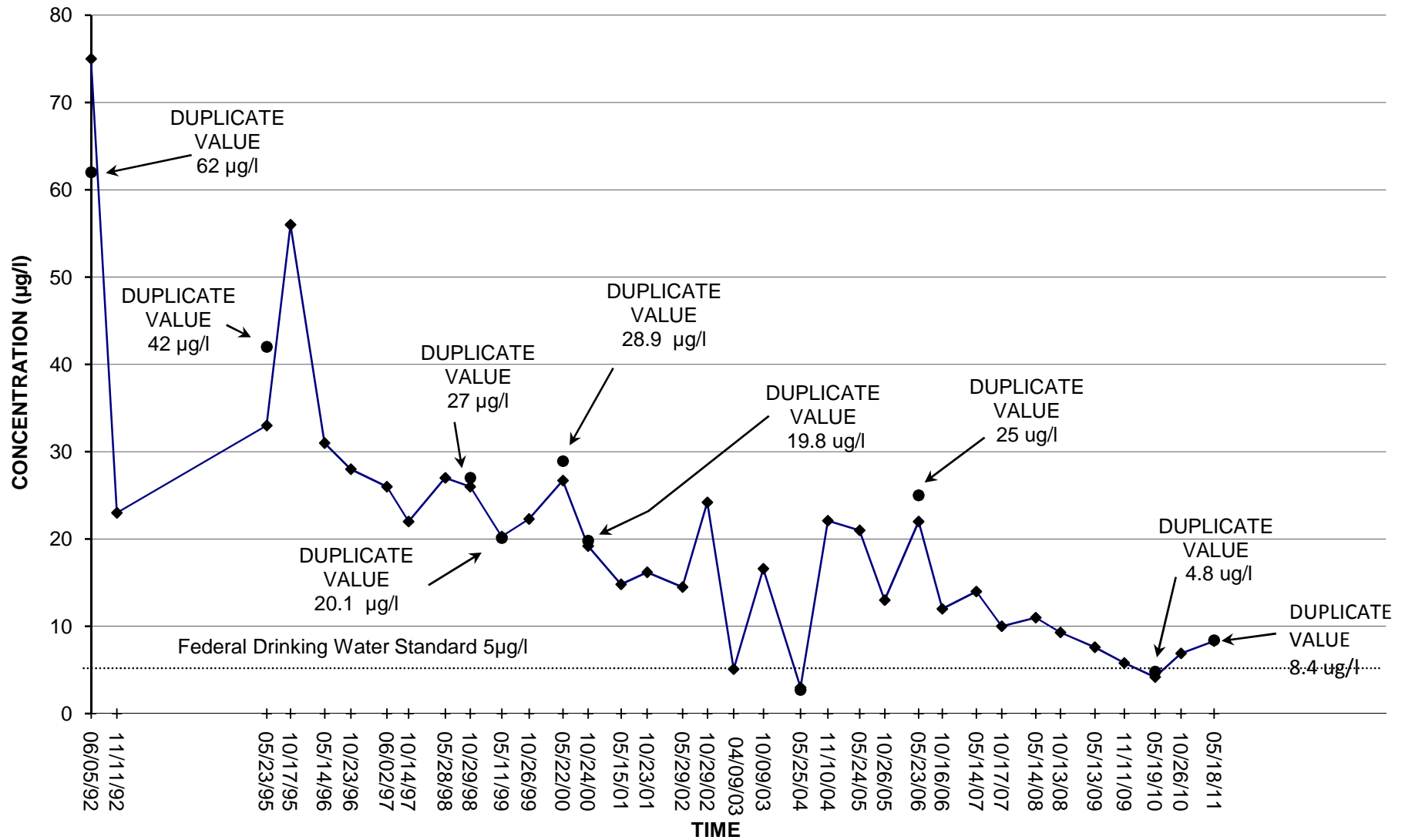
DRAWING NOT TO SCALE



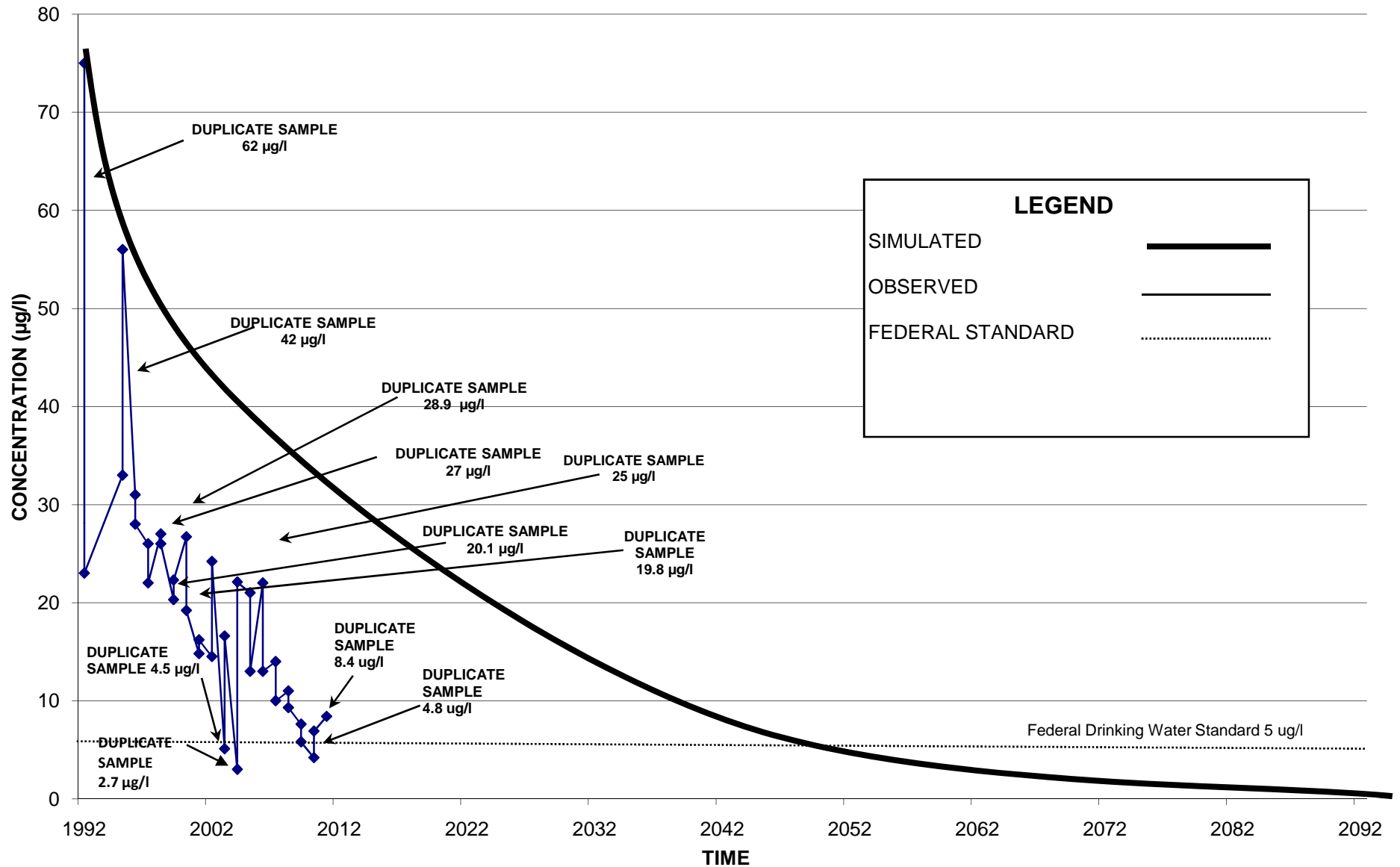
MALTA ROCKET FUEL AREA SITE
MALTA, NEW YORK

FIGURE 1
SITE LOCATION MAP

FIGURE 2
WELL M-27D CARBON TETRACHLORIDE CONCENTRATIONS



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



Appendix A

Laboratory Data, Groundwater Samples

(May 18 and 19, 2011)

June 17, 2011

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

Re: GE MRFA Project #141771.01
Service Request # R1102787

Dear Mr. Neumann:

Enclosed is the analytical data report for the above referenced facility. A total of twenty samples were received by our laboratory on May 19-20, 2010.

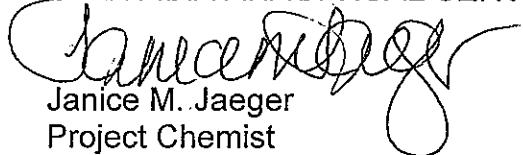
Any problems encountered with this project are addressed in a case narrative section which is presented later in this report.

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

Thank you for your continued use of our services.

Sincerely,

COLUMBIA ANALYTICAL SERVICES


Janice M. Jaeger
Project Chemist

enc.

Page 1 of 94

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

CASE NARRATIVE

Client:	Shaw Environmental	Service Request:	R1102787
Project:	GE MRFA	Project Number:	141771.01
Sample Matrix:	Water	Date Received:	05/19-20/11

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Samples were collected on 05/18-19/11 and received at CAS on 05/19-20/11 at cooler temperatures of 5-7 °C in good condition except as noted on the cooler receipt and preservation check form. The samples received on 05/19/11 were at 7 C and after client notification, were analyzed. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

Inorganic Analysis

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

Site specific QC was performed on M-27D as requested. All Matrix Spike (MS) recoveries were acceptable. All Laboratory Control Sample (LCS) recoveries and RPD's were within limits.

SW-B was received 1 hour prior to the 24 hour holding time expiring. The sample was analyzed as soon as possible after receipt, however it was slightly outside 24 hours.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Metals Analysis

Samples were analyzed for a site specific list of Metals by Methods 6010C.

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

All LCS recoveries were within limits.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Volatile Organics

Samples were analyzed for a site specific list of Volatile Organics by CLP Method OLC 2.1.

All Tuning criteria for BFB were within QC limits.

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

All Internal Standard Areas and surrogate standard recoveries were within QC limits.

The LCS recoveries were all acceptable.

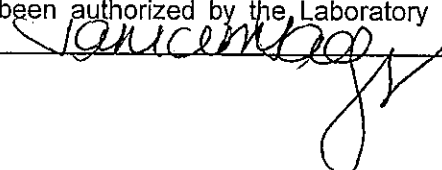
Site specific QC was performed on M-27D as requested. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for M-29D have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

The Method 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 details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. _____



CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 141771.01	Batch Complete: Yes	Date Revised:
Submission: R1102787	Diskette Requested: No	Date Due: 6/10/11
Client: Shaw Environmental & Infrastructure	Date: 5/23/11	Protocol: CLP
Client Rep: JJAEGGER	Custody Seal: Present/Absent:	Shipping No.:
Project: GE MRFA	Chain of Custody: Present/Absent:	SDG #: DGC-4S

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1102787-001	DGC-4S	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-002	M-25D	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-003	M-24D	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-004	M-29D	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-005	DGC-3S	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-006QC	M-27D	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-007	DUPE	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-008	TRIP BLANK	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-009	COOLER BLANK	Water	CLP-VOA OLC02.1	5/19/11	5/19/11			
R1102787-010	SW-E	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-011	SW-F	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-012	SW-G	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-013	SW-D	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-014	SW-A	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-015	SW-B	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-016	11D	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-017	13D	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-018	DUP	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-019	Trip Blank	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			

000004

Folder Comments:

Printed 5/23/11 16:36

CLP Batching Form

REPORT QUALIFIERS

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



CAS/Rochester Lab ID # for State Certifications¹

NELAP Accredited
Connecticut ID # PH0556
Delaware Accredited
DoD ELAP #65817
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032

Nebraska Accredited
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158

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

ANALYSIS REQUESTED (Include Method Number and Container Preservative)					
Project Name GE MRFA	Project Number 141771-01	PRESERVATIVE			
Project Manager Brian - Neumann	Report CC				
Company Address Shaw Environmental					
13 British America Blvd					
Latham, NY 12011					
Phone # 518 785 2340	E-mail brian.neumann@shawcorp.com				
Sample Signature Matt Dupay	Sample's Printed Name Matt Dupay				
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	TIME	MATRIX	NUMBER OF CONTAINERS
DGC-4S		5-18-11	1400	GW	3
M-25-D			945		3
M-24-D			1200		3
M-29-D			1045		3
DGC-3S			1430		3
M-27D			1300		5
M-27D MS			1300		5
M-27D MSD			1300		5
DUPE					3
Trip Blank					3
SPECIAL INSTRUCTIONS/COMMENTS Metals					
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day _____ 2 day _____ 3 day _____ 4 day _____ 5 day _____ Standard <input checked="" type="checkbox"/>					
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 _____					
INVOICE INFORMATION PO #: _____ BILL TO: _____					
REQUESTED REPORT DATE _____					
RECEIVED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____					
RELINQUISHED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____					
RECEIVED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____					
RELINQUISHED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____					
PRESCRIPTIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn-Acetate 6. MeOH 7. NaHSO4 8. Other _____					
REMARKS/ ALTERNATE DESCRIPTION					

Cooler Receipt And Preservation Check Form

Project/Client Shaw Folder Number R11-2787Cooler received on 5/19/11 by: BD COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A 1 vial for SCA-48
5. Were Ice or Ice packs present? YES NO
6. Where did the bottles originate? CAS/ROG CLIENT
7. Temperature of cooler(s) upon receipt: 7°*

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

If No, Explain Below No No No No NoDate/Time Temperatures Taken: 5/19 @ 1005Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample BottleIf out of Temperature, note packing/ice condition, Client Approval to Run Samples: OK as per Brian Heumann
PC Secondary Review: AMS 5/19/11Cooler Breakdown: Date: 5/19/11 Time: 1438 by: BD

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

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	✓		BDB26109H	4/12				
≤2	H ₂ SO ₄								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	4110060	4/12				

Yes = All samples OK

No = Samples were preserved at lab as listed

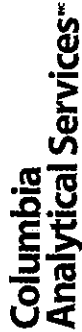
PM OK to Adjust:

Bottle lot numbers: 1-045004, 041111-20

Other Comments:

* 7° from a temp blank, 5° from a sample bottlePC Secondary Review: AMS 5/23/11

*significant air bubbles: VOA > 5-6 mm : WC > 4 in. diameter



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) OF PAGE OF

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Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev 10/2010

Cooler Receipt And Preservation Check Form

Project/Client Shaw Folder Number R11-2787Cooler received on 5/20/11 by: CD COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO N/A SW-F (2 vials)
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: 50

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: 5/20/11 1025Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample BottleIf out of Temperature, note packing/ice condition, Client Approval to Run Samples: _____
PC Secondary Review: 5/20/11Cooler Breakdown: Date: 5/20/11 Time: 1327 by: AW

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

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO ₃	<u>X</u>		<u>BDB261094</u>	<u>4/12</u>				
≤2	H ₂ SO ₄								
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid					
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet			
	Zn Aceta	-	-						
	HCl	*	*	<u>4110060</u>	<u>4/12</u>				

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust:

Bottle lot numbers: 041111-20, 1-045-004

Other Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1400
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 19:01

Sample Name: DGC-4S
 Lab Code: R1102787-001

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5893.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	0.99	J	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.0	U	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1400
Date Received: 5/19/11
Date Analyzed: 5/23/11 19:01

Sample Name: DGC-4S
Lab Code: R1102787-001

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5893.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	80-120	5/23/11 19:01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 1901

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

Sample Name: DGC-4S
Lab Code: R1102787-001

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 0945
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 17:33

Sample Name: M-25D
 Lab Code: R1102787-002

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5923.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.65	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.75	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	0.60	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.86	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.86	
87-61-6	1,2,3-Trichlorobenzene	5.0 U	5.0	0.55	
120-82-1	1,2,4-Trichlorobenzene	5.0 U	5.0	0.71	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	0.75	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	0.60	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	0.65	
95-50-1	1,2-Dichlorobenzene	5.0 U	5.0	0.45	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	0.50	
541-73-1	1,3-Dichlorobenzene	5.0 U	5.0	0.38	
106-46-7	1,4-Dichlorobenzene	5.0 U	5.0	0.49	
78-93-3	2-Butanone (MEK)	25 U	25	4.2	
591-78-6	2-Hexanone	25 U	25	1.8	
108-10-1	4-Methyl-2-pentanone	25 U	25	2.6	
67-64-1	Acetone	25 U	25	4.2	
71-43-2	Benzene	5.0 U	5.0	0.47	
74-97-5	Bromochloromethane	5.0 U	5.0	0.95	
75-27-4	Bromodichloromethane	5.0 U	5.0	0.50	
75-25-2	Bromoform	5.0 U	5.0	0.38	
74-83-9	Bromomethane	5.0 U	5.0	0.80	
75-15-0	Carbon Disulfide	5.0 U	5.0	0.71	
56-23-5	Carbon Tetrachloride	32	5.0	0.31	
108-90-7	Chlorobenzene	5.0 U	5.0	0.43	
75-00-3	Chloroethane	5.0 U	5.0	0.46	
67-66-3	Chloroform	3.2 J	5.0	0.45	
74-87-3	Chloromethane	5.0 U	5.0	0.60	
156-59-2	cis-1,2-Dichloroethene	1.1 J	5.0	0.71	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	0.36	
124-48-1	Dibromochloromethane	5.0 U	5.0	0.46	
100-41-4	Ethylbenzene	5.0 U	5.0	0.60	
87-68-3	Hexachlorobutadiene	5.0 U	5.0	0.50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 0945
Date Received: 5/19/11
Date Analyzed: 5/24/11 17:33

Sample Name: M-25D
Lab Code: R1102787-002

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5923.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	1.1	
75-09-2	Dichloromethane (Methylene Chloride)	5.0	U	5.0	0.95	
95-47-6	o-Xylene	5.0	U	5.0	0.50	
100-42-5	Styrene	5.0	U	5.0	0.49	
127-18-4	Tetrachloroethene (PCE)	5.0	U	5.0	0.50	
108-88-3	Toluene	5.0	U	5.0	0.50	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	0.75	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	0.71	
79-01-6	Trichloroethene (TCE)	79		5.0	0.46	
75-69-4	Trichlorofluoromethane (CFC 11)	5.0	U	5.0	0.60	
75-01-4	Vinyl Chloride	5.0	U	5.0	0.60	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	80-120	5/24/11 17:33	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1733

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

Sample Name: M-25D
Lab Code: R1102787-002

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1200
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 19:37

Sample Name: M-24D
 Lab Code: R1102787-003

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5894.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	2.1	J	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	2.6		1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	0.11	J	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1200
Date Received: 5/19/11
Date Analyzed: 5/23/11 19:37

Sample Name: M-24D
Lab Code: R1102787-003

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5894.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	9.5	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	80-120	5/23/11 19:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 1937

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

Sample Name: M-24D
Lab Code: R1102787-003

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1045
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 19:18

Sample Name: M-29D
 Lab Code: R1102787-004

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5926.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	4.4	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	0.23 J	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	27 E	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	2.1	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	0.19 J	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1045
Date Received: 5/19/11
Date Analyzed: 5/24/11 19:18

Sample Name: M-29D
Lab Code: R1102787-004

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5926.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	25	E	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	114	80-120	5/24/11 19:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1918

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

Sample Name: M-29D
Lab Code: R1102787-004

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1045
Date Received: 5/19/11
Date Analyzed: 5/24/11 18:42

Sample Name: M-29D
Lab Code: R1102787-004
Run Type: Dilution

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5925.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 2

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	4.1 D	2.0	0.26	
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.30	
79-00-5	1,1,2-Trichloroethane	2.0 U	2.0	0.24	
75-34-3	1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.34	
75-35-4	1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	0.34	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	2.0	0.22	
120-82-1	1,2,4-Trichlorobenzene	2.0 U	2.0	0.28	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.30	
106-93-4	1,2-Dibromoethane	2.0 U	2.0	0.24	
107-06-2	1,2-Dichloroethane	2.0 U	2.0	0.26	
95-50-1	1,2-Dichlorobenzene	2.0 U	2.0	0.18	
78-87-5	1,2-Dichloropropane	2.0 U	2.0	0.20	
541-73-1	1,3-Dichlorobenzene	2.0 U	2.0	0.15	
106-46-7	1,4-Dichlorobenzene	2.0 U	2.0	0.20	
78-93-3	2-Butanone (MEK)	10 U	10	1.7	
591-78-6	2-Hexanone	10 U	10	0.72	
108-10-1	4-Methyl-2-pentanone	10 U	10	1.1	
67-64-1	Acetone	10 U	10	1.7	
71-43-2	Benzene	2.0 U	2.0	0.19	
74-97-5	Bromochloromethane	2.0 U	2.0	0.38	
75-27-4	Bromodichloromethane	2.0 U	2.0	0.20	
75-25-2	Bromoform	2.0 U	2.0	0.16	
74-83-9	Bromomethane	2.0 U	2.0	0.32	
75-15-0	Carbon Disulfide	2.0 U	2.0	0.28	
56-23-5	Carbon Tetrachloride	25 D	2.0	0.13	
108-90-7	Chlorobenzene	2.0 U	2.0	0.17	
75-00-3	Chloroethane	2.0 U	2.0	0.19	
67-66-3	Chloroform	1.9 DJ	2.0	0.18	
74-87-3	Chloromethane	2.0 U	2.0	0.24	
156-59-2	cis-1,2-Dichloroethene	2.0 U	2.0	0.28	
10061-01-5	cis-1,3-Dichloropropene	2.0 U	2.0	0.15	
124-48-1	Dibromochloromethane	2.0 U	2.0	0.19	
100-41-4	Ethylbenzene	2.0 U	2.0	0.24	
87-68-3	Hexachlorobutadiene	2.0 U	2.0	0.20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1045
Date Received: 5/19/11
Date Analyzed: 5/24/11 18:42

Sample Name: M-29D
Lab Code: R1102787-004
Run Type: Dilution

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5925.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 2

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.44	
75-09-2	Dichloromethane (Methylene Chloride)	2.0 U	2.0	0.38	
95-47-6	o-Xylene	2.0 U	2.0	0.20	
100-42-5	Styrene	2.0 U	2.0	0.20	
127-18-4	Tetrachloroethene (PCE)	2.0 U	2.0	0.20	
108-88-3	Toluene	2.0 U	2.0	0.20	
156-60-5	trans-1,2-Dichloroethene	2.0 U	2.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	2.0 U	2.0	0.28	
79-01-6	Trichloroethene (TCE)	23 D	2.0	0.19	
75-69-4	Trichlorofluoromethane (CFC 11)	2.0 U	2.0	0.24	
75-01-4	Vinyl Chloride	2.0 U	2.0	0.24	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	80-120	5/24/11 18:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1842

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

Sample Name: M-29DDL
Lab Code: R1102787-004
Run Type: Dilution
Analytical Method: CLP-VOA OLC02.1

Units: µg/L
Basis: NA

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1430
Date Received: 5/19/11
Date Analyzed: 5/23/11 20:13

Sample Name: DGC-3S
Lab Code: R1102787-005

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5895.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1430
Date Received: 5/19/11
Date Analyzed: 5/23/11 20:13

Sample Name: DGC-3S
Lab Code: R1102787-005

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5895.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	80-120	5/23/11 20:13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 2013

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

Sample Name: DGC-3S
Lab Code: R1102787-005

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11
Date Analyzed: 5/23/11 20:49

Sample Name: M-27D
Lab Code: R1102787-006

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5896.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	8.3	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.1	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11
Date Analyzed: 5/23/11 20:49

Sample Name: M-27D
Lab Code: R1102787-006

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5896.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	6.7	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	0.13 J	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/23/11 20:49	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 2049

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

Sample Name: M-27D
Lab Code: R1102787-006

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1300
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 18:06

Sample Name: DUPE
 Lab Code: R1102787-007

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5924.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	8.4	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.1	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11
Date Analyzed: 5/24/11 18:06

Sample Name: DUPE
Lab Code: R1102787-007

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5924.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	7.0		1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	0.13	J	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/24/11 18:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1806

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

Sample Name: DUPE
Lab Code: R1102787-007

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 21:25

Sample Name: TRIP BLANK
 Lab Code: R1102787-008

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5897.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 21:25

Sample Name: TRIP BLANK
Lab Code: R1102787-008

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5897.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	80-120	5/23/11 21:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 2125

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

Sample Name: TRIP BLANK
Lab Code: R1102787-008

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 22:18

Sample Name: COOLER BLANK
 Lab Code: R1102787-009

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5931.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 22:18

Sample Name: COOLER BLANK
Lab Code: R1102787-009

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5931.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	118	80-120	5/24/11 22:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 2218

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

Sample Name: COOLER BLANK
Lab Code: R1102787-009

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 0850
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 22:01

Sample Name: SW-E
 Lab Code: R1102787-010

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5898.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	3.6	J	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.0	U	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 0850
Date Received: 5/20/11
Date Analyzed: 5/23/11 22:01

Sample Name: SW-E
Lab Code: R1102787-010

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5898.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	114	80-120	5/23/11 22:01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2201

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

Sample Name: SW-E
Lab Code: R1102787-010

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 0910
Date Received: 5/20/11
Date Analyzed: 5/23/11 22:37

Sample Name: SW-F
Lab Code: R1102787-011

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5899.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	5.0	U	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.0	U	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 0910
Date Received: 5/20/11
Date Analyzed: 5/23/11 22:37

Sample Name: SW-F
Lab Code: R1102787-011

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5899.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/23/11 22:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2237

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

Sample Name: SW-F
Lab Code: R1102787-011

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 0930
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 23:13

Sample Name: SW-G
 Lab Code: R1102787-012

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5900.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	0.94 J	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 0930
Date Received: 5/20/11
Date Analyzed: 5/23/11 23:13

Sample Name: SW-G
Lab Code: R1102787-012

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5900.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	118	80-120	5/23/11 23:13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2313

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

Sample Name: SW-G
Lab Code: R1102787-012

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1000
Date Received: 5/20/11
Date Analyzed: 5/23/11 23:49

Sample Name: SW-D
Lab Code: R1102787-013

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5901.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	1.1 J	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1000
Date Received: 5/20/11
Date Analyzed: 5/23/11 23:49

Sample Name: SW-D
Lab Code: R1102787-013

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5901.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	120	80-120	5/23/11 23:49	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2349

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

Sample Name: SW-D
Lab Code: R1102787-013

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 1030
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 00:25

Sample Name: SW-A
 Lab Code: R1102787-014

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5902.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	0.35 J	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1030
Date Received: 5/20/11
Date Analyzed: 5/24/11 00:25

Sample Name: SW-A
Lab Code: R1102787-014

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5902.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	120	80-120	5/24/11 00:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 0025

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

Sample Name: SW-A
Lab Code: R1102787-014

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1100
Date Received: 5/20/11
Date Analyzed: 5/24/11 14:30

Sample Name: SW-B
Lab Code: R1102787-015

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5918.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	0.17 J	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1100
Date Received: 5/20/11
Date Analyzed: 5/24/11 14:30

Sample Name: SW-B
Lab Code: R1102787-015

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5918.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	0.32	J	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	80-120	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1430

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

Sample Name: SW-B
Lab Code: R1102787-015

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 1230
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 16:54

Sample Name: 11D
 Lab Code: R1102787-016

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5922.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	5.0	U	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	8.9		1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	0.96	J	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1230
Date Received: 5/20/11
Date Analyzed: 5/24/11 16:54

Sample Name: 11D
Lab Code: R1102787-016

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5922.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.3		1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/24/11 16:54	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1654

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

Sample Name: 11D
Lab Code: R1102787-016

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1300
Date Received: 5/20/11
Date Analyzed: 5/24/11 15:08

Sample Name: 13D
Lab Code: R1102787-017

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5919.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	1.1 J	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	0.99 J	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	0.16 J	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1300
Date Received: 5/20/11
Date Analyzed: 5/24/11 15:08

Sample Name: 13D
Lab Code: R1102787-017

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5919.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	80-120	5/24/11 15:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1508

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

Sample Name: 13D
Lab Code: R1102787-017

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 15:44

Sample Name: DUP
 Lab Code: R1102787-018

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5920.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.2	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	0.18 J	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 15:44

Sample Name: DUP
Lab Code: R1102787-018

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5920.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	80-120	5/24/11 15:44	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1544

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

Sample Name: DUP
Lab Code: R1102787-018

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 16:18

Sample Name: Trip Blank
 Lab Code: R1102787-019

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5921.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	5.0	U	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.0	U	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 16:18

Sample Name: Trip Blank
Lab Code: R1102787-019

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5921.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	80-120	5/24/11 16:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1618

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

Sample Name: Trip Blank
Lab Code: R1102787-019

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/23/11 18:25

Sample Name: Method Blank
 Lab Code: RQ1105184-03

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5892.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/11 18:25

Sample Name: Method Blank
Lab Code: RQ1105184-03

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5892.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	80-120	5/23/11 18:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: NA
Date Received: NA
Date Analyzed: 5/23/11 1825

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

Sample Name: Method Blank
Lab Code: RQ1105184-03

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/24/11 14:02

Sample Name: Method Blank
 Lab Code: RQ1105211-03

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5917.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/24/11 14:02

Sample Name: Method Blank
 Lab Code: RQ1105211-03

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5917.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	80-120	5/24/11 14:02	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/11 1402

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

Sample Name: Method Blank
Lab Code: RQ1105211-03

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11
 Date Received: 5/19/11
 Date Analyzed: 5/24/11

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

Sample Name: M-27D
 Lab Code: R1102787-006

Units: µg/L
 Basis: NA

Analytical Method: CLP-VOA OLC02.1

Analyte Name	Sample Result	M-27DMS Matrix Spike RQ1105211-05			M-27DDMS Duplicate Matrix Spike RQ1105211-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,2-Trichloroethane	ND	4.68	5.00	94	4.73	5.00	95	60 - 140	1	30
1,2-Dibromoethane	ND	4.29	5.00	86	4.51	5.00	90	60 - 140	5	30
1,2-Dichloroethane	ND	5.39	5.00	108	5.15	5.00	103	60 - 140	5	30
1,2-Dichloropropane	ND	4.70	5.00	94	4.96	5.00	99	60 - 140	5	30
1,4-Dichlorobenzene	ND	4.69	5.00	94	4.71	5.00	94	60 - 140	<1	30
Benzene	ND	4.59	5.00	92	4.77	5.00	95	60 - 140	4	30
Bromoform	ND	4.30	5.00	86	4.28	5.00	86	60 - 140	<1	30
Carbon Tetrachloride	8.3	14.2	5.00	118	15.2	5.00	138	60 - 140	7	30
cis-1,3-Dichloropropene	ND	4.26	5.00	85	4.51	5.00	90	60 - 140	6	30
Tetrachloroethene (PCE)	ND	4.84	5.00	97	5.08	5.00	102	60 - 140	5	30
Trichloroethene (TCE)	6.7	11.4	5.00	93	12.3	5.00	112	60 - 140	8	30
Vinyl Chloride	ND	5.08	5.00	102	5.00	5.00	100	60 - 140	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Analyzed: 5/23/11

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

Analytical Method: CLP-VOA OLC02.1

Units: µg/L

Basis: NA

Analysis Lot: 247268

Lab Control Sample
RQ1105184-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,2-Trichloroethane	4.62	5.00	92	60 - 140
1,2-Dibromoethane	4.68	5.00	94	60 - 140
1,2-Dichloroethane	4.77	5.00	95	60 - 140
1,2-Dichloropropane	4.90	5.00	98	60 - 140
1,4-Dichlorobenzene	4.84	5.00	97	60 - 140
Benzene	4.68	5.00	94	60 - 140
Bromoform	4.62	5.00	92	60 - 140
Carbon Tetrachloride	4.72	5.00	94	60 - 140
cis-1,3-Dichloropropene	4.45	5.00	89	60 - 140
Tetrachloroethene (PCE)	4.93	5.00	99	60 - 140
Trichloroethene (TCE)	4.87	5.00	97	60 - 140
Vinyl Chloride	4.51	5.00	90	60 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Analyzed: 5/24/11

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

Analytical Method: CLP-VOA OLC02.1

Units: µg/L

Basis: NA

Analysis Lot: 247358

Lab Control Sample
RQ1105211-04

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,2-Trichloroethane	4.86	5.00	97	60 - 140
1,2-Dibromoethane	4.85	5.00	97	60 - 140
1,2-Dichloroethane	5.12	5.00	102	60 - 140
1,2-Dichloropropane	5.12	5.00	102	60 - 140
1,4-Dichlorobenzene	5.11	5.00	102	60 - 140
Benzene	4.83	5.00	97	60 - 140
Bromoform	4.57	5.00	91	60 - 140
Carbon Tetrachloride	4.80	5.00	96	60 - 140
cis-1,3-Dichloropropene	4.54	5.00	91	60 - 140
Tetrachloroethene (PCE)	4.87	5.00	97	60 - 140
Trichloroethene (TCE)	4.96	5.00	99	60 - 140
Vinyl Chloride	5.33	5.00	107	60 - 140

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

METALS
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

Contract: R1102787

SDG No.: DGC-4S

Lab Code: _____

Case No.: _____

SAS No.: _____

SOW No.: CLP ILM05.3

Sample ID.

Lab Sample No.

M-27D

R1102787-006

M-27DD

R1102787-006D

M-27DS

R1102787-006S

DUPE

R1102787-007

SW-B

R1102787-015

I3D

R1102787-017

DUP

R1102787-018

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments: See Attached Case Narrative

Signature: _____

Michael E. Perry

Name: _____

Michael Perry

Date: _____

6/17/11

Title: _____

Laboratory Director

00079

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

13D

Contract: R1102787

Lab Code:

Case No.:

SAS No.:

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-017

Level (low/med): LOW

Date Received: 5/20/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	14.1			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUP

Contract: R1102787

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-018

Level (low/med): LOW

Date Received: 5/20/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	15.6			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUPE

Contract: R1102787

Lab Code:

Case No.:

SAS No.:

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-007

Level (low/med): LOW

Date Received: 5/19/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.2	J		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: R1102787

Lab Code:

Case No.:

SAS No.:

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-006

Level (low/med): LOW

Date Received: 5/19/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.964	J		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SW-B

Contract: R1102787

Lab Code:

Case No.:

SAS No.:

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-015

Level (low/med): LOW

Date Received: 5/20/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.812	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: M-27D
Lab Code: R1102787-006

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution	Date	Date	Note
						Factor	Extracted	Analyzed	
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/19/11 12:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: DUPE
Lab Code: R1102787-007

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/19/11 12:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: SW-B
Lab Code: R1102787-015

Service Request: R1102787
Date Collected: 5/19/11 1100
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/11 11:46	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: 13D
Lab Code: R1102787-017

Service Request: R1102787
Date Collected: 5/19/11 1300
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/11 11:46	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: DUP
Lab Code: R1102787-018

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/11 11:46	*

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1102787-MB1

Service Request: R1102787
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/19/11 12:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1102787-MB2

Service Request: R1102787
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/11 11:46	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/19/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: M-27D
Lab Code: R1102787-006

Units: mg/L
Basis: NA

Analytical Method: 7196A

Analyte Name	Sample Result	M-27DMS Matrix Spike R1102787-006MS1			M-27DDMS Duplicate Matrix Spike R1102787-006DMS1			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chromium, Hexavalent	ND	0.107	0.100	107	0.106	0.100	106	85 - 115	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Analyzed: 5/19/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample R1102787-LCS1					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.101	0.100	101	92 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Analyzed: 5/20/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L

Basis: NA

Lab Control Sample R1102787-LCS2					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7196A	0.100	0.100	100	92 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Appendix B

Data Validation Report

RECEIVED

JUL 12 2011

Data Validation Services

120 Cobble Creek Road P. O. Box 208

North Creek, NY 12853


Phone (518) 251-4429

Facsimile (518) 251-4428

LETTER OF TRANSMITTAL

TO: Brian Neumann

COMPANY: Shaw

FROM: Judy Harry 

DATE: 07-11-11

ENCLOSED: Validation Report for the GE MRFA site

COMMENTS: as emailed

Ship via: US Express _____ UPS _____ US Priority X Fed Ex _____ Other: _____

Data Validation Services

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

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

July 8, 2011

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

RE: Validation of GE MRFA Malta Site Data Packages
CAS Sub No. R1102787

Dear Mr. Neumann:

Review has been completed for the data packages generated by Columbia Analytical Services (CAS), pertaining to groundwater samples collected 05/18/11 and 05/19/11 at the GE Malta Site. Fourteen samples, two field duplicates, a cooler blank and two trip blanks were processed for site-specific low level volatiles. Three of those samples and two field duplicates were also analyzed for total and hexavalent chromium. Methodologies utilized include those of the USEPA OLC02.1, EPA CLP ILM, and USEPA SW846 7196.

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

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

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

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

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

Chain-of-Custody

The relinquish date and time was not present on the custody for the samples collected 05/18/11.

Low Level Volatile Analyses

The detected result for acetone in M-24D is qualified as tentative in identification and estimated in value due to poor mass spectral quality. ^{R 6/7/25/11}

The detected result for acetone in DGC-4S is edited to reflect non-detection due to very poor mass spectral quality.

Results for analytes initially reported with the "E" flag have been derived from the dilution analyses of those samples.

Matrix spikes of M-27D show recoveries and duplicate correlations within the laboratory acceptance ranges and validation guidelines.

Volatile blind field duplicate correlations for M-27D and 13D are well within validation guidelines.

Acetone and 2-butanone exhibit low relative response factors (RRFs) (inherent with the methodology) in all of the project calibration standards. The usability of those data is evidenced by spike recoveries, instrument sensitivity, and calibration standard responses, but the reporting limits and detected values for those compounds in the samples and trip/cooler blanks should be considered estimated ("UJ" or "J" qualifiers), possibly biased low.

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

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

Total Chromium Analyses

The matrix spike/lab duplicate accuracy and precision determinations were performed on M-27D, and show recovery and duplicate correlation within recommended limits.

The blind field duplicate evaluations for M-27D and 13D show good correlations.

The serial dilution evaluation of M-27D is not applicable due to low sample concentrations.

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

Hexavalent Chromium Analyses

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

Matrix spike/laboratory duplicate accuracy and precision determinations were performed on M-27D, and show recovery and duplicate correlations within recommended limits.

The blind field duplicate correlations for M-27D and 13D are within validation 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,

A handwritten signature in cursive script, appearing to read "Judy Harry", written in black ink.

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.

J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.

UJ The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.

NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

R The data are unusable. The analyte may or may not be present.

EMPC The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and CASE NARRATIVE**

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 141771.01	Batch Complete: Yes	Date Revised:
Submission: R1102787	Diskette Requested: No	Date Due: 6/10/11
Client: Shaw Environmental & Infrastructure	Date: 5/23/11	Protocol: CLP
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: GE MRFA	Chain of Custody: Present/Absent:	SDG #: DGC-4S

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1102787-001	DGC-4S	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-002	M-25D	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-003	M-24D R 7/25/11	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-004	M-29D	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-005	DGC-3S	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-006QC	M-27D	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-007	DUPE	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-008	TRIP BLANK	Water	CLP-VOA OLC02.1	5/18/11	5/19/11			
R1102787-009	COOLER BLANK	Water	CLP-VOA OLC02.1	5/19/11	5/19/11			
R1102787-010	SW-E	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-011	SW-F	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-012	SW-G	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-013	SW-D	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-014	SW-A	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-015	SW-B	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-016	11D	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-017	13D	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-018	DUP	Water	7196A, CLP-METALS ILM05.3, CLP-VOA OLC02.1	5/19/11	5/20/11			
R1102787-019	Trip Blank	Water	CLP-VOA OLC02.1	5/19/11	5/20/11			

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CLP Batching Form

CASE NARRATIVE

Client:	Shaw Environmental	Service Request:	R1102787
Project:	GE MRFA	Project Number:	141771.01
Sample Matrix:	Water	Date Received:	05/19-20/11

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Samples were collected on 05/18-19/11 and received at CAS on 05/19-20/11 at cooler temperatures of 5-7 °C in good condition except as noted on the cooler receipt and preservation check form. The samples received on 05/19/11 were at 7 °C and after client notification, were analyzed. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory.

Inorganic Analysis

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

Site specific QC was performed on M-27D as requested. All Matrix Spike (MS) recoveries were acceptable. All Laboratory Control Sample (LCS) recoveries and RPD's were within limits.

SW-B was received 1 hour prior to the 24 hour holding time expiring. The sample was analyzed as soon as possible after receipt, however it was slightly outside 24 hours.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Metals Analysis

Samples were analyzed for a site specific list of Metals by Methods 6010C.

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

All LCS recoveries were within limits.

The Method Blanks associated with these analyses were free of contamination.

No other analytical or QC problems were encountered.

Volatile Organics

Samples were analyzed for a site specific list of Volatile Organics by CLP Method OLC 2.1.

All Tuning criteria for BFB were within QC limits.

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

All Internal Standard Areas and surrogate standard recoveries were within QC limits.

The LCS recoveries were all acceptable.

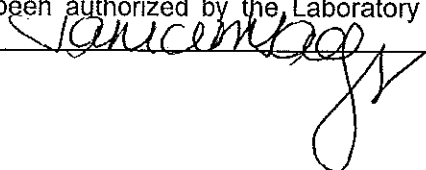
Site specific QC was performed on M-27D as requested. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for M-29D have been flagged with an "E" as being outside the calibration range of the instrument. The sample was repeated at a dilution and both sets of data have been reported out.

The Method 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 details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature. _____



QUALIFIED SAMPLE RESULTS FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1400
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 19:01

Sample Name: DGC-4S
 Lab Code: R1102787-001

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDDATA\MSVOA6\DATA\052311\X5893.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	0.99	U	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.0	U	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1400
Date Received: 5/19/11
Date Analyzed: 5/23/11 19:01

Sample Name: DGC-4S
Lab Code: R1102787-001

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5893.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	80-120	5/23/11 19:01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 1901

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

Sample Name: DGC-4S
Lab Code: R1102787-001

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 0945
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 17:33

Sample Name: M-25D
 Lab Code: R1102787-002

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5923.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	5.0 U	5.0	0.65	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	0.75	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	0.60	
75-34-3	1,1-Dichloroethane (1,1-DCA)	5.0 U	5.0	0.86	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5.0 U	5.0	0.86	
87-61-6	1,2,3-Trichlorobenzene	5.0 U	5.0	0.55	
120-82-1	1,2,4-Trichlorobenzene	5.0 U	5.0	0.71	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	0.75	
106-93-4	1,2-Dibromoethane	5.0 U	5.0	0.60	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	0.65	
95-50-1	1,2-Dichlorobenzene	5.0 U	5.0	0.45	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	0.50	
541-73-1	1,3-Dichlorobenzene	5.0 U	5.0	0.38	
106-46-7	1,4-Dichlorobenzene	5.0 U	5.0	0.49	
78-93-3	2-Butanone (MEK)	25 U <i>uj</i>	25	4.2	
591-78-6	2-Hexanone	25 U	25	1.8	
108-10-1	4-Methyl-2-pentanone	25 U	25	2.6	
67-64-1	Acetone	25 U <i>uj</i>	25	4.2	
71-43-2	Benzene	5.0 U	5.0	0.47	
74-97-5	Bromochloromethane	5.0 U	5.0	0.95	
75-27-4	Bromodichloromethane	5.0 U	5.0	0.50	
75-25-2	Bromoform	5.0 U	5.0	0.38	
74-83-9	Bromomethane	5.0 U	5.0	0.80	
75-15-0	Carbon Disulfide	5.0 U	5.0	0.71	
56-23-5	Carbon Tetrachloride	32	5.0	0.31	
108-90-7	Chlorobenzene	5.0 U	5.0	0.43	
75-00-3	Chloroethane	5.0 U	5.0	0.46	
67-66-3	Chloroform	3.2 J	5.0	0.45	
74-87-3	Chloromethane	5.0 U	5.0	0.60	
156-59-2	cis-1,2-Dichloroethene	1.1 J	5.0	0.71	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	0.36	
124-48-1	Dibromochloromethane	5.0 U	5.0	0.46	
100-41-4	Ethylbenzene	5.0 U	5.0	0.60	
87-68-3	Hexachlorobutadiene	5.0 U	5.0	0.50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 0945
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 17:33

Sample Name: M-25D
 Lab Code: R1102787-002

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5923.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	1.1	
75-09-2	Dichloromethane (Methylene Chloride)	5.0 U	5.0	0.95	
95-47-6	o-Xylene	5.0 U	5.0	0.50	
100-42-5	Styrene	5.0 U	5.0	0.49	
127-18-4	Tetrachloroethene (PCE)	5.0 U	5.0	0.50	
108-88-3	Toluene	5.0 U	5.0	0.50	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	0.75	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	0.71	
79-01-6	Trichloroethene (TCE)	79	5.0	0.46	
75-69-4	Trichlorofluoromethane (CFC 11)	5.0 U	5.0	0.60	
75-01-4	Vinyl Chloride	5.0 U	5.0	0.60	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	80-120	5/24/11 17:33	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1733

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

Sample Name: M-25D
Lab Code: R1102787-002

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1200
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 19:37

Sample Name: M-24D R *7/25/11*
 Lab Code: R1102787-003

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5894.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>WJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	2.1 J <i>NJ</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	2.6	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	0.11 J	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1200
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 19:37

Sample Name: M-24D R (SN) 2/25/11
 Lab Code: R1102787-003

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5894.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	9.5		1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	80-120	5/23/11 19:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 1937

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

Sample Name: M-24DR ~~62~~ 7/25/11
Lab Code: R1102787-003

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1045
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 19:18

Sample Name: M-29D
 Lab Code: R1102787-004

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5926.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	4.4	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	0.23 J	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>US</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>US</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	2.1 <i>2.5</i>	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	2.1	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	0.19 J	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1045
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 19:18

Sample Name: M-29D
 Lab Code: R1102787-004

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5926.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	25	E	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	114	80-120	5/24/11 19:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1918

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

Sample Name: M-29D
Lab Code: R1102787-004

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1045
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 18:42

Sample Name: M-29D
 Lab Code: R1102787-004
 Run Type: Dilution

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5925.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 2

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	4.1 D	2.0	0.26	
79-34-5	1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.30	
79-00-5	1,1,2-Trichloroethane	2.0 U	2.0	0.24	
75-34-3	1,1-Dichloroethane (1,1-DCA)	2.0 U	2.0	0.34	
75-35-4	1,1-Dichloroethene (1,1-DCE)	2.0 U	2.0	0.34	
87-61-6	1,2,3-Trichlorobenzene	2.0 U	2.0	0.22	
120-82-1	1,2,4-Trichlorobenzene	2.0 U	2.0	0.28	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.30	
106-93-4	1,2-Dibromoethane	2.0 U	2.0	0.24	
107-06-2	1,2-Dichloroethane	2.0 U	2.0	0.26	
95-50-1	1,2-Dichlorobenzene	2.0 U	2.0	0.18	
78-87-5	1,2-Dichloropropane	2.0 U	2.0	0.20	
541-73-1	1,3-Dichlorobenzene	2.0 U	2.0	0.15	
106-46-7	1,4-Dichlorobenzene	2.0 U	2.0	0.20	
78-93-3	2-Butanone (MEK)	10 U <i>u5</i>	10	1.7	
591-78-6	2-Hexanone	10 U	10	0.72	
108-10-1	4-Methyl-2-pentanone	10 U	10	1.1	
67-64-1	Acetone	10 U <i>u5</i>	10	1.7	
71-43-2	Benzene	2.0 U	2.0	0.19	
74-97-5	Bromochloromethane	2.0 U	2.0	0.38	
75-27-4	Bromodichloromethane	2.0 U	2.0	0.20	
75-25-2	Bromoform	2.0 U	2.0	0.16	
74-83-9	Bromomethane	2.0 U	2.0	0.32	
75-15-0	Carbon Disulfide	2.0 U	2.0	0.28	
56-23-5	Carbon Tetrachloride	25 D	2.0	0.13	
108-90-7	Chlorobenzene	2.0 U	2.0	0.17	
75-00-3	Chloroethane	2.0 U	2.0	0.19	
67-66-3	Chloroform	1.9 DJ	2.0	0.18	
74-87-3	Chloromethane	2.0 U	2.0	0.24	
156-59-2	cis-1,2-Dichloroethene	2.0 U	2.0	0.28	
10061-01-5	cis-1,3-Dichloropropene	2.0 U	2.0	0.15	
124-48-1	Dibromochloromethane	2.0 U	2.0	0.19	
100-41-4	Ethylbenzene	2.0 U	2.0	0.24	
87-68-3	Hexachlorobutadiene	2.0 U	2.0	0.20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1045
Date Received: 5/19/11
Date Analyzed: 5/24/11 18:42

Sample Name: M-29D
Lab Code: R1102787-004
Run Type: Dilution

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5925.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 2

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.44	
75-09-2	Dichloromethane (Methylene Chloride)	2.0	U	2.0	0.38	
95-47-6	o-Xylene	2.0	U	2.0	0.20	
100-42-5	Styrene	2.0	U	2.0	0.20	
127-18-4	Tetrachloroethene (PCE)	2.0	U	2.0	0.20	
108-88-3	Toluene	2.0	U	2.0	0.20	
156-60-5	trans-1,2-Dichloroethene	2.0	U	2.0	0.30	
10061-02-6	trans-1,3-Dichloropropene	2.0	U	2.0	0.28	
79-01-6	Trichloroethene (TCE)	23	D	2.0	0.19	
75-69-4	Trichlorofluoromethane (CFC 11)	2.0	U	2.0	0.24	
75-01-4	Vinyl Chloride	2.0	U	2.0	0.24	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	80-120	5/24/11 18:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1842

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

Sample Name: M-29DDL Units: µg/L
Lab Code: R1102787-004 Basis: NA
Run Type: Dilution
Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1430
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 20:13

Sample Name: DGC-3S
 Lab Code: R1102787-005

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5895.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U <i>UJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	5.0	U <i>UJ</i>	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.0	U	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1430
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 20:13

Sample Name: DGC-3S
 Lab Code: R1102787-005

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5895.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	80-120	5/23/11 20:13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 2013

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

Sample Name: DGC-3S
Lab Code: R1102787-005

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1300
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 20:49

Sample Name: M-27D
 Lab Code: R1102787-006

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDDATA\MSVOA6\DATA\052311\X5896.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	UJ
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	5.0	U	5.0	0.84	UJ
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	8.3		1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.1		1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11
Date Analyzed: 5/23/11 20:49

Sample Name: M-27D
Lab Code: R1102787-006

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5896.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	6.7		1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	0.13	J	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/23/11 20:49	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 2049

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

Sample Name: M-27D
Lab Code: R1102787-006

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11 1300
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 18:06

Sample Name: DUPE
 Lab Code: R1102787-007

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5924.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>WJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>WJ</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	8.4	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.1	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11
Date Analyzed: 5/24/11 18:06

Sample Name: DUPE
Lab Code: R1102787-007

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5924.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	7.0	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	0.13 J	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/24/11 18:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 1806

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

Sample Name: DUPE
Lab Code: R1102787-007

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/18/11
 Date Received: 5/19/11
 Date Analyzed: 5/23/11 21:25

Sample Name: TRIP BLANK
 Lab Code: R1102787-008

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQU\DATA\MSVOA6\DATA\052311\X5897.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>UJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>UJ</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 21:25

Sample Name: TRIP BLANK
Lab Code: R1102787-008

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5897.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	80-120	5/23/11 21:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/18/11
Date Received: 5/19/11
Date Analyzed: 5/23/11 2125

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

Sample Name: TRIP BLANK
Lab Code: R1102787-008

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11
 Date Received: 5/19/11
 Date Analyzed: 5/24/11 22:18

Sample Name: COOLER BLANK
 Lab Code: R1102787-009

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5931.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>UJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>UJ</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 22:18

Sample Name: COOLER BLANK
Lab Code: R1102787-009

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5931.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	118	80-120	5/24/11 22:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/19/11
Date Analyzed: 5/24/11 2218

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

Sample Name: COOLER BLANK
Lab Code: R1102787-009

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 0850
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 22:01

Sample Name: SW-E
 Lab Code: R1102787-010

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQU\DATA\MSVOA6\DATA\052311\X5898.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	us
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	3.6	J	5.0	0.84	
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	1.0	U	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 0850
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 22:01

Sample Name: SW-E
 Lab Code: R1102787-010

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5898.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	114	80-120	5/23/11 22:01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2201

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

Sample Name: SW-E
Lab Code: R1102787-010

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 0910
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 22:37

Sample Name: SW-F
 Lab Code: R1102787-011

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5899.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>US</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>US</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 0910
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 22:37

Sample Name: SW-F
 Lab Code: R1102787-011

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5899.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/23/11 22:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2237

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

Sample Name: SW-F
Lab Code: R1102787-011

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 0930
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 23:13

Sample Name: SW-G
 Lab Code: R1102787-012

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDDATA\MSVOA6\DATA\052311\X5900.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>US</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	0.94 J <i>J</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 0930
Date Received: 5/20/11
Date Analyzed: 5/23/11 23:13

Sample Name: SW-G
Lab Code: R1102787-012

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5900.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	118	80-120	5/23/11 23:13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2313

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

Sample Name: SW-G

Lab Code: R1102787-012

Units: µg/L

Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 1000
 Date Received: 5/20/11
 Date Analyzed: 5/23/11 23:49

Sample Name: SW-D
 Lab Code: R1102787-013

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5901.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>US</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	1.1 J <i>J</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1000
Date Received: 5/20/11
Date Analyzed: 5/23/11 23:49

Sample Name: SW-D
Lab Code: R1102787-013

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5901.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	120	80-120	5/23/11 23:49	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/23/11 2349

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

Sample Name: SW-D
Lab Code: R1102787-013

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 1030
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 00:25

Sample Name: SW-A
 Lab Code: R1102787-014

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5902.D\

Analysis Lot: 247268
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>UJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>UJ</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	0.35 J	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1030
Date Received: 5/20/11
Date Analyzed: 5/24/11 00:25

Sample Name: SW-A
Lab Code: R1102787-014

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052311\X5902.D\

Analysis Lot: 247268
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0 U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	120	80-120	5/24/11 00:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 0025

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

Sample Name: SW-A
Lab Code: R1102787-014

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 1100
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 14:30

Sample Name: SW-B
 Lab Code: R1102787-015

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5918.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>u5</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>u5</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	0.17 J	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1100
Date Received: 5/20/11
Date Analyzed: 5/24/11 14:30

Sample Name: SW-B
Lab Code: R1102787-015

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5918.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	0.32 J	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	80-120	5/24/11 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1430

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

Sample Name: SW-B
Lab Code: R1102787-015

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 1230
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 16:54

Sample Name: 11D
 Lab Code: R1102787-016

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5922.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>UJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>UJ</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	8.9	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	0.96 J	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1230
Date Received: 5/20/11
Date Analyzed: 5/24/11 16:54

Sample Name: 11D
Lab Code: R1102787-016

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5922.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0 U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0 U	1.0	0.19	
95-47-6	o-Xylene	1.0 U	1.0	0.10	
100-42-5	Styrene	1.0 U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0	0.10	
108-88-3	Toluene	1.0 U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.3	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	80-120	5/24/11 16:54	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1654

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

Sample Name: 11D
Lab Code: R1102787-016

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11 1300
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 15:08

Sample Name: 13D
 Lab Code: R1102787-017

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5919.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>W</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	1.1 J <i>J</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	0.99 J	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	0.16 J	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11 1300
Date Received: 5/20/11
Date Analyzed: 5/24/11 15:08

Sample Name: 13D
Lab Code: R1102787-017

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5919.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	112	80-120	5/24/11 15:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1508

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

Sample Name: 13D
Lab Code: R1102787-017

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 15:44

Sample Name: DUP
 Lab Code: R1102787-018

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5920.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0	U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.83	UJ
591-78-6	2-Hexanone	5.0	U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.51	
67-64-1	Acetone	5.0	U	5.0	0.84	UJ
71-43-2	Benzene	1.0	U	1.0	0.093	
74-97-5	Bromochloromethane	1.0	U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.10	
75-25-2	Bromoform	1.0	U	1.0	0.076	
74-83-9	Bromomethane	1.0	U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.2		1.0	0.061	
108-90-7	Chlorobenzene	1.0	U	1.0	0.084	
75-00-3	Chloroethane	1.0	U	1.0	0.092	
67-66-3	Chloroform	0.18	J	1.0	0.089	
74-87-3	Chloromethane	1.0	U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.092	
100-41-4	Ethylbenzene	1.0	U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 15:44

Sample Name: DUP
 Lab Code: R1102787-018

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5920.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	115	80-120	5/24/11 15:44	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1544

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

Sample Name: DUP
Lab Code: R1102787-018

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
 Project: GE MRFA/141771.01
 Sample Matrix: Water

Service Request: R1102787
 Date Collected: 5/19/11
 Date Received: 5/20/11
 Date Analyzed: 5/24/11 16:18

Sample Name: Trip Blank
 Lab Code: R1102787-019

Units: µg/L
 Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
 Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5921.D\

Analysis Lot: 247358
 Instrument Name: R-MS-06
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.15	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.12	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.17	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.17	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	1.0	0.11	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	1.0	0.14	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	1.0 U	1.0	0.15	
106-93-4	1,2-Dibromoethane	1.0 U	1.0	0.12	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	1.0 U	1.0	0.090	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.10	
541-73-1	1,3-Dichlorobenzene	1.0 U	1.0	0.075	
106-46-7	1,4-Dichlorobenzene	1.0 U	1.0	0.097	
78-93-3	2-Butanone (MEK)	5.0 U <i>UJ</i>	5.0	0.83	
591-78-6	2-Hexanone	5.0 U	5.0	0.36	
108-10-1	4-Methyl-2-pentanone	5.0 U	5.0	0.51	
67-64-1	Acetone	5.0 U <i>UJ</i>	5.0	0.84	
71-43-2	Benzene	1.0 U	1.0	0.093	
74-97-5	Bromochloromethane	1.0 U	1.0	0.19	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.10	
75-25-2	Bromoform	1.0 U	1.0	0.076	
74-83-9	Bromomethane	1.0 U	1.0	0.16	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.14	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.061	
108-90-7	Chlorobenzene	1.0 U	1.0	0.084	
75-00-3	Chloroethane	1.0 U	1.0	0.092	
67-66-3	Chloroform	1.0 U	1.0	0.089	
74-87-3	Chloromethane	1.0 U	1.0	0.12	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.14	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.072	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.092	
100-41-4	Ethylbenzene	1.0 U	1.0	0.12	
87-68-3	Hexachlorobutadiene	1.0 U	1.0	0.10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 16:18

Sample Name: Trip Blank
Lab Code: R1102787-019

Units: µg/L
Basis: NA

Low Level Water Volatile Organic Compounds by GC/MS

Analytical Method: CLP-VOA OLC02.1
Data File Name: J:\ACQUDATA\MSVOA6\DATA\052411\X5921.D\

Analysis Lot: 247358
Instrument Name: R-MS-06
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
179601-23-1	m,p-Xylenes	1.0	U	1.0	0.22	
75-09-2	Dichloromethane (Methylene Chloride)	1.0	U	1.0	0.19	
95-47-6	o-Xylene	1.0	U	1.0	0.10	
100-42-5	Styrene	1.0	U	1.0	0.098	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	0.10	
108-88-3	Toluene	1.0	U	1.0	0.099	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.15	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.14	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	0.092	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.12	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.12	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	80-120	5/24/11 16:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11
Date Analyzed: 5/24/11 1618

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

Sample Name: Trip Blank
Lab Code: R1102787-019

Units: µg/L
Basis: NA

Analytical Method: CLP-VOA OLC02.1

CAS #	Analyte Name	RT	Result	Q
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No Tentatively Identified Compounds Detected.

Comments: _____

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

13D

Contract: R1102787

Lab Code: Case No.: SAS No.: SDG NO.: DGC-4S

Matrix (soil/water): WATER Lab Sample ID: R1102787-017

Level (low/med): LOW Date Received: 5/20/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	14.1			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUP

Contract: R1102787

Lab Code:

Case No.:

SAS No.:

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-018

Level (low/med): LOW

Date Received: 5/20/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	15.6			P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUPE

Contract: R1102787

Lab Code:

Case No.:

SAS No.:

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-007

Level (low/med): LOW

Date Received: 5/19/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.2	J		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: R1102787

Lab Code: _____

Case No.: _____

SAS No.: _____

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-006

Level (low/med): LOW

Date Received: 5/19/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.964	J		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments: _____

METALS
-I-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SW-B

Contract: R1102787

Lab Code:

Case No.:

SAS No.:

SDG NO.: DGC-4S

Matrix (soil/water): WATER

Lab Sample ID: R1102787-015

Level (low/med): LOW

Date Received: 5/20/2011

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

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.812	U		P

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: M-27D
Lab Code: R1102787-006

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/19/11 12:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: DUPE
Lab Code: R1102787-007

Service Request: R1102787
Date Collected: 5/18/11 1300
Date Received: 5/19/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/19/11 12:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: SW-B
Lab Code: R1102787-015

Service Request: R1102787
Date Collected: 5/19/11 1100
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/11 11:46	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: 13D
Lab Code: R1102787-017

Service Request: R1102787
Date Collected: 5/19/11 1300
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/11 11:46	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Shaw Environmental & Infrastructure, Inc.
Project: GE MRFA/141771.01
Sample Matrix: Water
Sample Name: DUP
Lab Code: R1102787-018

Service Request: R1102787
Date Collected: 5/19/11
Date Received: 5/20/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7196A	0.010	U	mg/L	0.010	1	NA	5/20/11 11:46	*