



August 31, 2010

Mr. Ronnie Lee, P.E.
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7016

**Re: Former EMCA Site, Mamaroneck, New York
Site Number 360025
Groundwater Sampling and Analysis Report
June 2010 Sampling Event**

Dear Mr. Lee:

Enclosed are two bound copies and a CD containing the Groundwater Sampling and Analysis Report for the June 2010 Sampling Event. This transmittal is being made on behalf of Rohm and Haas Company, a wholly owned subsidiary of The Dow Chemical Company.

If you have any questions or comments regarding the enclosed, please give me a call at (716) 923-1102. Thank you.

Sincerely,

URS Corporation

Bruce J. Przybyl
Project Manager

Enc.

cc: Mr. Nathan Walz, NYSDOH (w/attachments)
Mr. Ed Tokarski, Dow (w/attachments)
Mr. Louis Vetere, Cablevision (w/attachments)
Ms. Sally Dewes, NYSDEC (e-mail of LOT)
File: 11172730/C-1

Groundwater Sampling and Analysis Report June 2010 Sampling Event

**Former EMCA Site
Mamaroneck, New York**

Prepared for:

**Rohm and Haas Company, a wholly owned
subsidiary of The Dow Chemical Company**

Prepared by:

URS

77 Goodell Street
Buffalo, New York 14203

August 2010

**FORMER EMCA SITE
SITE NO. 360025
MAMARONECK, NEW YORK**

**GROUNDWATER SAMPLING AND ANALYSIS REPORT
JUNE 2010 SAMPLING EVENT**

Prepared for:

**ROHM AND HAAS COMPANY
A WHOLLY-OWNED SUBSIDIARY OF THE DOW CHEMICAL COMPANY**

Submitted by:

**URS CORPORATION
77 Goodell Street
Buffalo, New York 14203**

AUGUST 2010

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1.0 INTRODUCTION

This report presents the results of groundwater monitoring conducted on June 24, 2010 at the former EMCA site located in Mamaroneck, New York (Figure 1). The semi-annual sampling and analyses of groundwater at this site is detailed in the Draft Operation Maintenance and Monitoring Plan (URS 2007b); the monitoring program generates data used to monitor the effectiveness of remedial actions performed at the site from 2003 to 2010.

The pilot program conducted in 2003, the interim remedial measure in 2004, the supplemental injection in 2007, and the supplemental injection in 2009, all involved the injections of food-grade emulsified soybean oil and sodium lactate into groundwater to stimulate anaerobic biodegradation and the reductive dechlorination of 1,1,2-trichloro-1,2,2-trifluoroethane (Freon 113; CAS No. 76-13-1) in site groundwater. This was the eleventh groundwater sampling event since the interim remedial measure in 2004, the sixth following the supplemental injection event in 2007, and the third following the 2009 supplemental injection event.

2.0 GROUNDWATER SAMPLING AND ANALYSIS

Groundwater samples were collected from a total of five monitoring wells using low-flow purging and sampling procedures. Remediation goals were achieved for four consecutive monitoring events at monitoring well GZ-06, therefore sampling at well GZ-06 has been discontinued. Static groundwater level measurements were taken prior to purging and sampling. Field purging and sampling logs are presented in Appendix A.

Chain-of-custody was initiated immediately after the groundwater samples were collected and was maintained through shipment to the laboratory. Laboratory analyses were performed for the following parameters:

Parameter	Analytical Method
Freon 113	8260B
Freon 123a	8260B
Freon 1113	8260B

Parameter	Analytical Method
Methane	RSK-175/Method 3810
Sulfate	375.4

3.0 RESULTS

Groundwater level data are presented in Table 1 and a groundwater elevation map is shown on Figure 2. Monitoring well GZ-03 was damaged by a vehicle, and therefore was modified from a stick-up well to a flush-mount well on June 24, 2010. A site-wide resurvey was performed on June 25, 2010 to reestablish the monitoring reference points. Two new permanent benchmarks were established along the Sheldrake River located at the South Bridge (BM-B) and the North Bridge (BM-D) to aid in the generation of future groundwater contour maps. One temporary benchmark (BM-C) was established off a tree branch overhanging the river just southwest of Ogden Avenue and will only be used for this groundwater report. In future events, the difference of BM-B and BM-D elevations compared to their baseline elevations will be averaged to determine an approximate elevation for the area around BM-C. As found during previous sampling events, groundwater flow was generally northwestward towards the Sheldrake River.

Groundwater monitoring results for the current event are provided in Table 2. Historical groundwater analytical results are presented in Table 3. Laboratory data sheets and a data usability summary report for the June 2010 results are provided in Appendix B. Freon 113, 123a and 1113 concentrations are shown in plan view on Figure 3 and trend plots are presented for Freon 113 (Figures 4 and 5), Freon 123a (Figure 6), Freon 1113 (Figure 7), sulfate (Figure 8), methane (Figure 9), dissolved oxygen (Figure 10), oxidation-reduction potential (Figure 11), and pH (Figure 12). Dissolved oxygen, oxidation-reduction potential, and pH were measured in the field by real-time instrumentation. Pre-injection Freon results (2003) and current Freon results are also shown in graph form on Figure 13.

4.0 DATA ASSESSMENT

The groundwater analytical data collected in June 2010 is the third set of data collected following the supplemental injection of food-grade emulsified soybean oil and sodium lactate

completed on September 9, 2009. The previous round of groundwater sampling occurred on February 25 and 26, 2010. These results were presented in the previous Groundwater Sampling and Analysis Report for February 2010 (URS, 2010). The groundwater analytical results for the June 2010 sampling event indicate that Freon 113 concentrations were either at or below the remedial goal of 5 µg/L or not detected at four of the five wells sampled. A Freon 113 concentration above 5 µg/L was noted at MW-02 (670 µg/L), increasing from 76 J µg/L in February 2010.

Freon 123a and Freon 1113 are the expected reductive dechlorination daughter products of Freon 113. Freon 123a holds one less chlorine than Freon 113. Therefore, the concentrations of these are expected to increase over time as Freon 113 declines in response to the treatments. Compared to the previous sampling event (February 2010), Freon 123a increased at MW-02 (6.1 µg/L to 37 µg/L), and MW-03 (non-detect to 0.5 J µg/L) and decreased at MW-06 (3.6 µg/L to 0.57 J µg/L), and MW-07R (8.1 µg/L to 1.8 µg/L). Freon 123a was not detected at MW-04 in both the February 2010 and June 2010 events.

Freon 1113, which holds two less chlorines than Freon 113, increased in concentration from the February 2010 event at MW-02 (92 J µg/L to 240 µg/L), MW-03 (17 J µg/L to 26 µg/L), MW-04 (7.7 J µg/L to 12 µg/L), MW-06 (35 J µg/L to 68 J µg/L), and MW-07R (150 J µg/L to 390 µg/L).

The June 2010 sulfate concentrations increased at all locations compared to the previous event. Dissolved oxygen concentrations also increased at all locations (ranging from 0.64 mg/L to 0.85 mg/L). These two trends indicate generally less biological activity.

Methane concentrations increased at MW-02 and MW-07R and decreased at MW-03, MW-04, and MW-06 compared to the previous event.

Oxidation-reduction potentials fluctuated slightly in all wells from the previous event, but remained generally within the same range between –124 to –170 millivolts.

Of note, pH values increased in all wells (8.8 to 9.3 S.U. in the June 2010 event) from the previous event (6.3 to 6.7 S.U. in the February 2010 event), increasing by more than two standard

units. Historically, pH values have ranged between 6 S.U. and 7 S.U. at this site. Because the field pH results appeared anomalous, URS asked the laboratory to determine pH on the unpreserved, unused sample aliquots. Results for all samples fell in the range of 7.04 to 7.26 S.U.; the laboratory pH analyses, however, were performed well outside the 15 minute holding time. Therefore, it is possible (but not conclusive) that the field pH results do not represent actual conditions.

5.0 CONCLUSIONS

A relative comparison of data from the June 2010 event and the February 2010 event, including Freon 113 and its degradation products and various indicator parameters, is presented in Table 4. Comparative data from these events is also discussed in Section 4.

The Freon data trends generally show a continuing, but diminishing, impact of the August-September 2009 supplemental injection event, particularly at MW-02. Freon 113 concentrations increased at MW-02, decreased at MW-07R and remained the same at non-detect at the remaining three wells (MW-03, MW-04, and MW-06) in June 2010. Freon 113 daughter product Freon 123a increased at MW-02, decreased at MW-06 and MW-07R, and was non-detect or showed no significant change at MW-03 and MW-04 in the June 2010 event. An increasing trend of the Freon 113 daughter product Freon 1113 was apparent in all locations. However, this is expected following injection, as daughter products are created as the parent is reduced; the daughter products are then in turn reduced.

Oxidation-reduction potentials fluctuated in all wells. Following the IRM injection in November 2004 (a period of strong Freon reduction), oxidation-reduction potentials in site wells except GZ-06 were observed to fall to approximately -135 to -155 millivolts. Currently, the oxidation-reduction potentials in site wells (not including GZ-06) appear to have a similar range (-124 to -170 millivolts). Methane concentrations increased at MW-02 and MW-07R and decreased at MW-03, MW-04, and MW-06.

Sulfate, which is a competing electron acceptor with Freon, increased at all well locations. Dissolved oxygen concentrations also increased at all locations. These changes suggest that there is decreasing biological activity present.

6.0 CONTINGENCY TRIGGER EVALUATION

A comparison of the current round of data to the contingency measure trigger criteria is presented below. These criteria were accepted by the NYSDEC in an E-mail dated August 25, 2010.

TRIGGER CRITERIA		ANALYSIS
1. A successive increase of 100-percent or greater in Freon 113 concentrations for two consecutive events at any monitored well, assuming that the remediation goal (5 µg/L) is exceeded in at least one of the monitoring events. For example, a well concentration that increased from 4 µg/L to 8 µg/L to 16 µg/L over two consecutive events would trigger contingency measures.		Freon 113 was detected above the remediation goal in only 1 well (MW-02) in this sampling round. Freon 113 was detected at 670 µg/L in June 2010 at MW-02, increasing from 76 µg/L in February 2010. This increase is greater than 100-percent. Although contingency measures are not triggered at this juncture, measures will be triggered by a detection of 1,340 µg/L or greater in the next sampling event.
2. Freon 113 is confirmed at MW-04 at a concentration greater than the remediation goal (5 µg/L).		Freon 113 was not detected at MW-04 in this sampling event.
3. The maximum detected Freon 113 concentration at any well is greater than a maximum target level, as shown below.		Freon 113 was detected at MW-02 at a concentration of 670 µg/L in this sampling event. Although contingency measures are not triggered at this juncture, measures will be triggered if the Freon 113 concentration remains above 320 µg/L in either event scheduled in 2011.
YEAR	TARGET MAXIMUM	
2011	320 µg/L	
2012	160 µg/L	
2013	80 µg/L	
2014	40 µg/L	
Once 40 µg/L is achieved after 2014, Criteria #1 becomes the relevant criteria.		

Based on this analysis, contingency measures are not triggered by the June 2010 sampling event.

7.0 NEXT STEPS

Based on experience with past events, the duration of significant impact of substrate injections appears to be on the order of about 1 to 2 years. Reductive dechlorination may resume at a significant pace into 2011. The next sampling event is scheduled for October 2010. This event will be used to evaluate the pace of reductive dechlorination at the site, particularly in the vicinity of MW-02.

REFERENCES

- URS Inc., 2005. *Groundwater Sampling and Analysis Report, May 2005 Sampling Event, Former EMCA Site, Site No. 360025, Mamaroneck, New York.* August.
- URS Inc., 2006a. *Groundwater Sampling and Analysis Report, December 2005 Sampling Event, Former EMCA Site, Site No. 360025, Mamaroneck, New York.* March.
- URS Inc., 2006b. *Groundwater Sampling and Analysis Report, August 2006 Sampling Event, Former EMCA Site, Site No. 360025, Mamaroneck, New York.* October.
- URS Inc., 2007a. *Groundwater Sampling and Analysis Report, February 2007 Sampling Event, Former EMCA Site, Site No. 360025, Mamaroneck, New York.* April.
- URS Inc., 2007b. *Operation, Maintenance and Monitoring Plan (Draft), Former EMCA Site, Site No. 360025, Mamaroneck, New York.* March.
- URS Inc., 2007c. *Groundwater Sampling and Analysis Report, August 2007 Sampling Event & Summary of Supplemental Injection Event, Former EMCA Site, Site No. 360025, Mamaroneck, New York.* October.
- URS Inc., 2008. *Groundwater Sampling and Analysis Report, February 2008 Sampling Event, Former EMCA Site, Site No 360025, Mamaroneck, New York.* May.
- URS Inc., 2008a. *Groundwater Sampling and Analysis Report, August 2008 Sampling Event, Former EMCA Site, Site No 360025, Mamaroneck, New York.* October.
- URS Inc., 2009. *Groundwater Sampling and Analysis Report, February 2009 Sampling Event, Former EMCA Site, Site No 360025, Mamaroneck, New York.* April.

URS Inc., 2009b. *2009 Supplemental Injection Work Plan, Former EMCA Site, Site No 360025, Mamaroneck, New York.* July.

URS Inc., 2009c. *Groundwater Sampling and Analysis Report, October 2009 Sampling Event and Summary of 2009 Supplemental Injection Event, Former EMCA Site, Site No 360025, Mamaroneck, New York.* November.

URS Inc., 2010. *Groundwater Sampling and Analysis Report, February 2010 Sampling Event, Former EMCA Site, Site No. 360025, Mamaroneck, New York.* April.

TABLES

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS (June 2010)
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location	Measuring Point Elevation ¹ (ft.)	Depth to Water ² (ft.)	Water Surface Elevation (ft.)
GZ-03 ³	26.16	6.35	19.81
GZ-06	28.02	7.65	20.37
MW-01	25.74	5.60	20.14
MW-02	25.63	6.01	19.62
MW-03	25.59	5.95	19.64
MW-04	25.31	5.89	19.42
MW-05	24.63	5.06	19.57
MW-06	25.77	6.18	19.59
MW-07R	25.63	6.06	19.57
Benchmark B (Sheldrake River - South Bridge)	32.21	13.25	18.96
Benchmark C ⁴ (Sheldrake River - between North and South Bridge)	24.17	6.17	18.00
Benchmark D (Sheldrake River - North Bridge)	27.41	10.35	17.06

Notes:

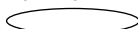
- 1) All of the monitoring well and benchmark locations were resurveyed on 6/25/2010.
- 2) Depth to water for all wells was collected on 6/24/2010. Water elevation for all benchmarks was collected on 6/25/2010.
- 3) Monitoring well GZ-03 was modified from a stick-up well to a flush-mount well on 6/24/2010.
- 4) Benchmark C was established off a tree branch overhanging the Sheldrake River between the north and south bridges. This benchmark is not permanent and will only be used for this groundwater report.

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-03	MW-04	MW-06	MW-07R
Sample ID			20100624MW-02V08N	20100624MW-03V09N	20100624MW-04V08N	20100624MW-06V13N	20100624MW-07V15FD
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/10	06/24/10	06/24/10	06/24/10	06/24/10
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatiles							
Chlorotrifluoroethene (Freon-1113)	UG/L	5	240	26	12	68 J	350 J
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	670	1 U	1 U	1 U	1.1 J
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	37	0.5 J	1 U	0.57 J	1.7 J
Dissolved Gases							
Methane	UG/L	-	8,400	6,000	4,000	9,400	8,100
Miscellaneous Parameters							
Sulfate	MG/L	250	38.9	15.8	18.4	52.3	17
Field Parameter							
Dissolved Oxygen	MG/L	-	0.64	0.85	0.80	0.73	NA
Oxidation Reduction Potential	mV	-	-136	-170	-146	-124	NA
pH	S.U.	-	8.91	9.28	8.99	8.81	NA
Specific Conductance	MS/CM	-	1.70	1.50	1.84	0.958	NA
Temperature	DEG C	-	16.71	16.51	18.45	17.79	NA
Turbidity	NTU	-	3.0	5.1	1.9	0.45	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

U - Non-Detect

J - Analyte is reported below the PQL at an estimated concentration.

Detection Limits shown are PQL

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07R
Sample ID			20100624MW-07R/1EN
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			06/24/10
Parameter	Units	Criteria*	
Volatiles			
Chlorotrifluoroethene (Freon-1113)	UG/L	5	390
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	1
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	1.8
Dissolved Gases			
Methane	UG/L	-	8,400
Miscellaneous Parameters			
Sulfate	MG/L	250	11.2
Field Parameter			
Dissolved Oxygen	MG/L	-	0.69
Oxidation Reduction Potential	mV	-	-129
pH	S.U.	-	8.83
Specific Conductance	MS/CM	-	2.09
Temperature	DEG C	-	16.45
Turbidity	NTU	-	0.35

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Non-Detect

J - Analyte is reported below the PQL at an estimated concentration.

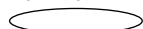
Detection Limits shown are PQL

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-03	GZ-06	GZ-06	GZ-06	GZ-06
Sample ID			20070801GZ-03V11N	GZ06_52103	GZ06	GZ06-091703	GZ-06-121803
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/01/07	05/21/03	07/23/03	09/17/03	12/18/03
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	5.0 U	10 U	5.0 U	5.0 U
Benzene	UG/L	1	NA	5.0 U	10 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	R	R	R	R
Chlorotrifluoroethene (Freon-1113)	UG/L	5	10 U	0 U	0 U	5.4 NJ	0 U
1,1-Dichloroethene	UG/L	5	NA	0.8 J	1.5 J	2.0 U	2.0 U
cis-1,2-Dichloroethene	UG/L	5	NA	5.0 U	10 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	UG/L	5	NA	5.0 U	10 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	NA	4.0 U	8 U	4.0 U	4.0 U
2-Hexanone	UG/L	50	NA	5.0 U	10 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	-	NA	5.0 U	10 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	NA	0.6 J	2 U	0.5 J	1.0 U
Trichloroethene	UG/L	5	NA	1.0 U	2 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	100	230	74	5.0 U
Vinyl Chloride	UG/L	2	NA	5.0 U	10 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	NA	5.0 U	10 U	5.0 U	5.0 U
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	10 U	20	41	26	0.7 J
Dissolved Gases							
Methane	UG/L	-	5.0 U	140	98	89	5.9
Total Metals							
Iron	UG/L	300	NA	2,390	866	517 J	173
Dissolved Metals							
Iron	UG/L	300	NA	2,290	778	583 J	85.3 B

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

UJ - Not detected above the estimated quantitation limit

U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

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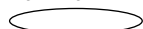
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-03	GZ-06	GZ-06	GZ-06	GZ-06
Sample ID			20070801GZ-03V11N	GZ06_52103	GZ06	GZ06-091703	GZ-06-121803
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/01/07	05/21/03	07/23/03	09/17/03	12/18/03
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	NA	559	474	477 J	218
Nitrogen, Ammonia (As N)	MG/L	2	NA	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen, Kjeldahl, Total	MG/L	-	NA	0.5 U	0.7	1.3	0.57
Nitrogen, Nitrate	MG/L	10	NA	0.1 U	NA	0.58	0.1 U
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	0.12 J	NA	NA
Sulfate	MG/L	250	15.8	25.2	27.5	32.4	5.0 U
Ferrous Iron (field)	MG/L	-	NA	2.8	9.6	0.25	0.03
Ferric Iron (lab)	MG/L	-	NA	0.1 U	0.1 U	0.52	0.143
Fluoride	MG/L	1.5	NA	0.1 U	0.1 U	0.1 U	0.32
Oil & Grease	MG/L	-	NA	NA	NA	R	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.52	0.76	0.5	0.48	6.86
Oxidation Reduction Potential	mV	-	98.5	-110	-75	-129	73
pH	S.U.	-	6.05	NA	NA	NA	NA
Specific Conductance	MS/CM	-	0.599	2.27	1.99	1.98	1.11
Temperature	DEG C	-	21.6	NA	NA	NA	NA
Turbidity	NTU	-	28	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

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R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: WG Jun10 Tab:

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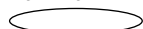
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-06	GZ-06	GZ-06	GZ-06	GZ-06
Sample ID			GZ06	GZ-06	MW-GZ-06V08N	GZ-0608N	20061117GZ-0608
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/22/04	05/31/05	12/20/05	08/15/06	11/17/06
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	24	15	10 U	13	2.0 J
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	100 J	9.0 J	10 U	74	2.0 J
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	36	4.0 J	2.0 J	23	2.0 J
Dissolved Gases							
Methane	UG/L	-	48	310	74	140	180
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

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([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-06	GZ-06	GZ-06	GZ-06	GZ-06
Sample ID			GZ06	GZ-06	MW-GZ-06V08N	GZ-0608N	20061117GZ-0608
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/22/04	05/31/05	12/20/05	08/15/06	11/17/06
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	1,610	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	20.8	14.2	31.7	23.2	25.1
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	1.00 U	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	1.15	0.11	0.03	5.67	NA
Oxidation Reduction Potential	mV	-	-210	-107	-59	-49	NA
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	5.25	1.43	1.16	1.28	NA
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

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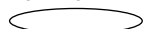
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-06	GZ-06	GZ-06	GZ-06	GZ-06
Sample ID			20061117GZ0608FD	20070207GZ-06V08N	20070731GZ-06V08	20080228GZ06V08	20080812GZ06V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/17/06	02/07/07	07/31/07	02/28/08	08/12/08
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	2.0 J	1.0 J	2.0 J	10 U	10 U
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	2.0 J	14	13	10 UJ	10 U
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	2.0 J	4.0 J	10	10 U	10 U
Dissolved Gases							
Methane	UG/L	-	210	360	23	5,900	880
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-06	GZ-06	GZ-06	GZ-06	GZ-06
Sample ID			20061117GZ0608FD	20070207GZ-06V08N	20070731GZ-06V08	20080228GZ06V08	20080812GZ06V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			11/17/06	02/07/07	07/31/07	02/28/08	08/12/08
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	25.4	29.3	50.4	5 U	28.1
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	NA	4.17	1.18	4.1	0.91
Oxidation Reduction Potential	mV	-	NA	-29	15.6	-89.0	-102
pH	S.U.	-	NA	NA	6.22	6.15	6.31
Specific Conductance	MS/CM	-	NA	3.06	1.671	0.89	1.59
Temperature	DEG C	-	NA	NA	NA	8.91	17.5
Turbidity	NTU	-	NA	NA	NA	1,000	18

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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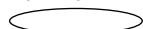
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-06	GZ-06	MW-01	MW-02	MW-02
Sample ID			20090218GZ-06V10N	20100225GZ-06V14N	20070801MW-01V08N	MW02-5-20-03	MW02-5-20-03DUP
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/18/09	02/25/10	08/01/07	05/20/03	05/20/03
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatiles							
Acetone	UG/L	50	NA	NA	NA	140 J	130 J
Benzene	UG/L	1	NA	NA	NA	50 U	25 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	R	R
Chlorotrifluoroethene (Freon-1113)	UG/L	5	10 U	1 UJ	20 U	0 U	0 U
1,1-Dichloroethene	UG/L	5	NA	NA	20 U	4.4 J	5.1 J
cis-1,2-Dichloroethene	UG/L	5	NA	NA	250	50 U	25 U
trans-1,2-Dichloroethene	UG/L	5	NA	NA	4.0 J	50 U	25 U
Ethylbenzene	UG/L	5	NA	NA	NA	40 U	20 U
2-Hexanone	UG/L	50	NA	NA	NA	50 U	25 U
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	50 U	25 U
Tetrachloroethene	UG/L	5	NA	NA	8.0 J	10 U	5.0 U
Trichloroethene	UG/L	5	NA	NA	5.0 J	10 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	1 UJ	20 U	710	880
Vinyl Chloride	UG/L	2	NA	NA	5.0 J	50 U	25 U
Xylene (total)	UG/L	5	NA	NA	NA	50 U	25 U
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	10 U	1 U	20 U	34 J	40
Dissolved Gases							
Methane	UG/L	-	8,700	5,000	98	26	32
Total Metals							
Iron	UG/L	300	NA	NA	NA	27,800	28,300
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	27,900	28,200

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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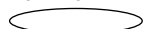
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			GZ-06	GZ-06	MW-01	MW-02	MW-02
Sample ID			20090218GZ-06V10N	20100225GZ-06V14N	20070801MW-01V08N	MW02-5-20-03	MW02-5-20-03DUP
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/18/09	02/25/10	08/01/07	05/20/03	05/20/03
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	338	338
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	3.3	3.4
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	6.6	6.2
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	0.15	0.16
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	5 UJ	8.4	39.2	44.0	46.0
Ferrous Iron (field)	MG/L	-	NA	NA	NA	25.3	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	2.5	3
Fluoride	MG/L	1.5	NA	NA	NA	0.28	0.3
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.36	0.00	0.99	0.36	NA
Oxidation Reduction Potential	mV	-	-91	-154	95.4	-108	NA
pH	S.U.	-	6.12	6.73	6.25	NA	NA
Specific Conductance	MS/CM	-	2.13	5.49	1.755	1.68	NA
Temperature	DEG C	-	9.24	7.23	NA	NA	NA
Turbidity	NTU	-	16	300	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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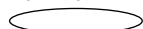
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-02	MW-02	MW-02
Sample ID			DUP-7_22_03	MW02-7_22_03	MW02-091803	MW-02-121803	MW-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/22/03	07/22/03	09/18/03	12/18/03	07/22/04
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatiles							
Acetone	UG/L	50	R	R	5.0 U	5.0 U	NA
Benzene	UG/L	1	50 U	50 U	5.0 U	5.0 U	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	R	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	0 U	0 U	0 U	0 U	14
1,1-Dichloroethene	UG/L	5	8.2 J	7.5 J	2.0 U	2.0 U	NA
cis-1,2-Dichloroethene	UG/L	5	50 U	50 U	5.0 U	5.0 U	NA
trans-1,2-Dichloroethene	UG/L	5	50 U	50 U	5.0 U	5.0 U	NA
Ethylbenzene	UG/L	5	40 U	3.4 J	4.0 U	4.0 U	NA
2-Hexanone	UG/L	50	50 U	50 U	5.0 U	5.0 U	NA
4-Methyl-2-Pentanone	UG/L	-	50 U	50 U	5.0 U	5.0 U	NA
Tetrachloroethene	UG/L	5	10 U	10 U	1.0 U	1.0 U	NA
Trichloroethene	UG/L	5	10 U	10 U	1.0 U	1.0 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	1,000	1,000	54	12	21 J
Vinyl Chloride	UG/L	2	50 U	50 U	5.0 U	5.0 U	NA
Xylene (total)	UG/L	5	7.1 J	11 J	5.0 U	5.0 U	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	40 J	41 J	7.8	3.3 J	4 J
Dissolved Gases							
Methane	UG/L	-	54	52	410	320	140
Total Metals							
Iron	UG/L	300	30,100	30,900	63,800 J	69,000	NA
Dissolved Metals							
Iron	UG/L	300	30,500	30,500	60,900 J	69,300	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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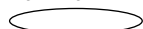
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-02	MW-02	MW-02
Sample ID			DUP-7_22_03	MW02-7_22_03	MW02-091803	MW-02-121803	MW-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/22/03	07/22/03	09/18/03	12/18/03	07/22/04
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Miscellaneous Parameters							
Chloride	MG/L	250	307	283	839	769	238
Nitrogen, Ammonia (As N)	MG/L	2	4.1	3.8	11.5	11.9	NA
Nitrogen, Kjeldahl, Total	MG/L	-	6.6	6.1	17.1	16.9	NA
Nitrogen, Nitrate	MG/L	10	0.1 U	0.1	0.1 U	0.1 U	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	32.3	32.5	4.80	5.0 U	15.2
Ferrous Iron (field)	MG/L	-	25.7	28.0	49.3	6.3	NA
Ferric Iron (lab)	MG/L	-	4.4	2.9	48.3	62.7	NA
Fluoride	MG/L	1.5	0.37	0.39	0.3	0.31	0.294
Oil & Grease	MG/L	-	NA	NA	5 U	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	NA	0.26	0.53	0 U	0.91
Oxidation Reduction Potential	mV	-	NA	-190	-99	-108	-133
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	NA	1.65	3.17	3.28	2.34
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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U - Non-Detect

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R - Rejected

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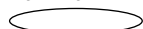
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-02	MW-02	MW-02
Sample ID			MW-02	MW-02V06N	MW-02V15N	20061117MW02VISN	20070207MW-02V06N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/31/05	12/20/05	08/14/06	11/17/06	02/07/07
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	120	18	200	21	84
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	1,200	110	890	100	800
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	86 J	15	110	10	95
Dissolved Gases							
Methane	UG/L	-	2,000	5,800	5,500	4,300	6,300
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

UJ - Not detected above the estimated quantitation limit

U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

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([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-02	MW-02	MW-02
Sample ID			MW-02	MW-02V06N	MW-02V15N	20061117MW02VISN	20070207MW-02V06N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/31/05	12/20/05	08/14/06	11/17/06	02/07/07
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	25.2	5.0 U	27.1	5.0 U	15.9
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	0 U	4.92	NA	1.56
Oxidation Reduction Potential	mV	-	-140	-137	-144	NA	-120
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	1.19	2.51	1.55	NA	1.77
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

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Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: WG Jun10 Tab2

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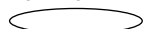
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-02	MW-02	MW-02
Sample ID			20070731MW-02V15N	20080228MW02V15N	20080812MW02V10N	20090218MW-02V10N	20091013MW-02V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/31/07	02/28/08	08/12/08	02/18/09	10/13/09
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	61	120 J	160	81 J	300
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	290	830 J	700	1,300	1,200 D
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	40	72	38 J	34 J	51
Dissolved Gases							
Methane	UG/L	-	2,900	6,400	6,200	8,000	6,100
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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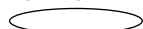
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-02	MW-02	MW-02
Sample ID			20070731MW-02V15N	20080228MW02V15N	20080812MW02V10N	20090218MW-02V10N	20091013MW-02V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/31/07	02/28/08	08/12/08	02/18/09	10/13/09
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	27.6	23.2	47.9	35.2 J	36.9
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.31	2.87	0 U	0 U	0.00
Oxidation Reduction Potential	mV	-	-97.2	-131.0	-119	-154	-161
pH	S.U.	-	6.39	6.38	6.40	6.26	6.16
Specific Conductance	MS/CM	-	2.357	2.18	2.14	2.55	2.09
Temperature	DEG C	-	NA	10.5	18.9	11.23	18.88
Turbidity	NTU	-	NA	28	3	5	9.4

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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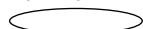
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-03	MW-03	MW-03
Sample ID			20100225MW-02V08N	20100624MW-02V08N	MW03_52103	MW03	DUP-91703
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/25/10	06/24/10	05/21/03	07/23/03	09/17/03
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatiles							
Acetone	UG/L	50	NA	NA	250 U	78	110
Benzene	UG/L	1	NA	NA	250 U	2.3	2.2
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	R	130 J	69 J
Chlorotrifluoroethene (Freon-1113)	UG/L	5	92 J	240	0 U	7.0 NJ	6.2 NJ
1,1-Dichloroethene	UG/L	5	NA	NA	33 J	2.0 U	2.0 U
cis-1,2-Dichloroethene	UG/L	5	NA	NA	250 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	UG/L	5	NA	NA	250 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	NA	NA	200 U	0.3 J	4.0 U
2-Hexanone	UG/L	50	NA	NA	250 U	5.0 U	19
4-Methyl-2-Pentanone	UG/L	-	NA	NA	250 U	5.0 U	11
Tetrachloroethene	UG/L	5	NA	NA	50 U	1.0 U	1.0 U
Trichloroethene	UG/L	5	NA	NA	50 U	1.0 U	1.0 U
1,1,2-Trichloro-1,1,2-trifluoroethane (Freon-113)	UG/L	5	76 J	670	5,800	68	26
Vinyl Chloride	UG/L	2	NA	NA	250 U	5.0 U	5.0 U
Xylene (total)	UG/L	5	NA	NA	250 U	1.1 J	5.0 U
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	6.1	37	78 J	43	180
Dissolved Gases							
Methane	UG/L	-	7,500	8,400	86	56	2,400
Total Metals							
Iron	UG/L	300	NA	NA	1,170	150,000	174,000 J
Dissolved Metals							
Iron	UG/L	300	NA	NA	267	152,000	187,000 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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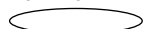
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-02	MW-03	MW-03	MW-03
Sample ID			20100225MW-02V08N	20100624MW-02V08N	MW03_52103	MW03	DUP-91703
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/25/10	06/24/10	05/21/03	07/23/03	09/17/03
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	113	143	99.2 J
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	0.36	2.7	0.86
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	1.3	10.8	4.5
Nitrogen, Nitrate	MG/L	10	NA	NA	2	NA	0.1 U
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	0.1 UJ	NA
Sulfate	MG/L	250	5 U	38.9	32.7	26.9	5.0 U
Ferrous Iron (field)	MG/L	-	NA	NA	0.5	3.7	25.5
Ferric Iron (lab)	MG/L	-	NA	NA	0.67	146	67.0
Fluoride	MG/L	1.5	NA	NA	0.28	0.44	0.27
Oil & Grease	MG/L	-	NA	NA	NA	NA	R
Field Parameter							
Dissolved Oxygen	MG/L	-	0.00	0.64	0.58	0 U	NA
Oxidation Reduction Potential	mV	-	-147	-136	40	-103	NA
pH	S.U.	-	6.57	8.91	NA	NA	NA
Specific Conductance	MS/CM	-	4.48	1.70	0.638	4.35	NA
Temperature	DEG C	-	9.33	16.71	NA	NA	NA
Turbidity	NTU	-	0	3.0	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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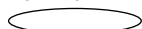
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID			MW03-091703	DUP1_121703	MW-03_121703	MW-03	MW-03
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/17/03	12/17/03	12/17/03	07/23/04	05/31/05
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatiles							
Acetone	UG/L	50	110	130 J	120 J	NA	NA
Benzene	UG/L	1	1.8	10 U	10 U	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	65 J	39 J	38 J	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	0 U	0 U	0 U	68 J	83
1,1-Dichloroethene	UG/L	5	2.0 U	4.0 U	4 U	NA	NA
cis-1,2-Dichloroethene	UG/L	5	5.0 U	10 U	10 U	NA	NA
trans-1,2-Dichloroethene	UG/L	5	5.0 U	10 U	10 U	NA	NA
Ethylbenzene	UG/L	5	4.0 U	8.0 U	8 U	NA	NA
2-Hexanone	UG/L	50	16	10 U	10 U	NA	NA
4-Methyl-2-Pentanone	UG/L	-	11	10 U	10 U	NA	NA
Tetrachloroethene	UG/L	5	1.0 U	4.9	4.6	NA	NA
Trichloroethene	UG/L	5	1.0 U	2.0 U	2 U	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	16	150	150	4,900 J	2.0 J
Vinyl Chloride	UG/L	2	5.0 U	10 U	10 U	NA	NA
Xylene (total)	UG/L	5	5.0 U	10 U	10 U	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	110	170	160	3,900	14
Dissolved Gases							
Methane	UG/L	-	2,500	7,200	4,900	2,700	6,300
Total Metals							
Iron	UG/L	300	178,000 J	156,000	164,000	NA	NA
Dissolved Metals							
Iron	UG/L	300	186,000 J	167,000	176,000	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

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U - Non-Detect

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Only Detected Results Reported.

Detection Limits shown are PQL

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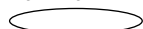
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID			MW03-091703	DUP1_121703	MW-03_121703	MW-03	MW-03
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			09/17/03	12/17/03	12/17/03	07/23/04	05/31/05
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Chloride	MG/L	250	91.5 J	224	192	71.7	NA
Nitrogen, Ammonia (As N)	MG/L	2	0.95	1.4	1.2	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	4.4	4.0	4.0	NA	NA
Nitrogen, Nitrate	MG/L	10	0.1 U	0.1 U	0.1 U	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ferrous Iron (field)	MG/L	-	27.9	23.5	30.0	NA	NA
Ferric Iron (lab)	MG/L	-	93.0	132	134	NA	NA
Fluoride	MG/L	1.5	0.2	0.22	0.25	0.397	NA
Oil & Grease	MG/L	-	R	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.01	NA	0.35	1.05	1.24
Oxidation Reduction Potential	mV	-	-90	NA	-59	-143	-133
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	1.64	NA	1.99	2.40	3.19
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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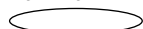
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID			MW-03V10N	MW-03V15N	20070207MW-03V10N	20070731MW-03V10N	20080228MW03V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/20/05	08/14/06	02/07/07	07/31/07	02/28/08
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	2.0 J	51	39	54	13 J
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	10 U	10	2.0 J	0.5 J
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	1.0 J	0.8 J	48	7.0 J	4.0 J
Dissolved Gases							
Methane	UG/L	-	10,000	7,400	15,000	4,500	18,000
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

UJ - Not detected above the estimated quantitation limit

U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

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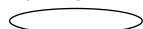
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID			MW-03V10N	MW-03V15N	20070207MW-03V10N	20070731MW-03V10N	20080228MW03V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/20/05	08/14/06	02/07/07	07/31/07	02/28/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	5.0 U	5.0 U	7.80	38.4	14.1
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	5.36	2.44	0.22	2.94
Oxidation Reduction Potential	mV	-	-151	-123	-116	-79.7	-123.0
pH	S.U.	-	NA	NA	NA	6.15	6.15
Specific Conductance	MS/CM	-	1.20	0.946	0.91	1.309	1.36
Temperature	DEG C	-	NA	NA	NA	NA	11.6
Turbidity	NTU	-	NA	NA	NA	NA	41

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

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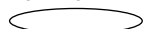
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID			20080812MW03V10FD	20080812MW03V10N	20090218MW-03V10N	20091013MW-03V10FD	20091013MW-03V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/08	08/12/08	02/18/09	10/13/09	10/13/09
Parameter	Units	Criteria*	Field Duplicate (1-1)			Field Duplicate (1-1)	
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	10	10	38	20	19
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	10 U	5.0 J	0.92 J	0.82 J
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	1.0 J	1.0 J	40	2.1	1.9
Dissolved Gases							
Methane	UG/L	-	10,000	8,400	13,000	5,300	4,800
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



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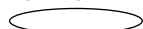
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-03	MW-03	MW-03
Sample ID			20080812MW03V10FD	20080812MW03V10N	20090218MW-03V10N	20091013MW-03V10FD	20091013MW-03V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/08	08/12/08	02/18/09	10/13/09	10/13/09
Parameter	Units	Criteria*	Field Duplicate (1-1)			Field Duplicate (1-1)	
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	30.0	28.1	50.7 J	4.6 J	8.7
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	NA	0 U	0 U	NA	0.00
Oxidation Reduction Potential	mV	-	NA	-149	-185	NA	-103
pH	S.U.	-	NA	6.36	6.06	NA	5.87
Specific Conductance	MS/CM	-	NA	1.69	2.08	NA	1.85
Temperature	DEG C	-	NA	17.8	12.87	NA	18.68
Turbidity	NTU	-	NA	2	5	NA	8.7

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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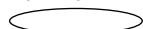
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-04	MW-04	MW-04
Sample ID			20100226MW-03V09N	20100624MW-03V09N	MW04-5-20-03	MW-04_121703	Dup1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/26/10	06/24/10	05/20/03	12/17/03	07/22/04
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatiles							
Acetone	UG/L	50	NA	NA	5.0 U	5.0 U	NA
Benzene	UG/L	1	NA	NA	5.0 U	5.0 U	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	R	R	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	17 J	26	0 U	0 U	10 U
1,1-Dichloroethene	UG/L	5	NA	NA	2.0 U	2.0 U	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	5.0 U	5.0 U	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	5.0 U	5.0 U	NA
Ethylbenzene	UG/L	5	NA	NA	4.0 U	4.0 U	NA
2-Hexanone	UG/L	50	NA	NA	5.0 U	5.0 U	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	5.0 U	5.0 U	NA
Tetrachloroethene	UG/L	5	NA	NA	1.0 U	1.0 U	NA
Trichloroethene	UG/L	5	NA	NA	1.0 U	1.0 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	1 UJ	1 U	5.0 U	5.0 U	10 UJ
Vinyl Chloride	UG/L	2	NA	NA	5.0 U	5.0 U	NA
Xylene (total)	UG/L	5	NA	NA	5.0 U	5.0 U	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	1 U	0.5 J	5.0 U	5.0 U	10 U
Dissolved Gases							
Methane	UG/L	-	13,000	6,000	380	35	69
Total Metals							
Iron	UG/L	300	NA	NA	18,400	3,640	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	18,500	3,760	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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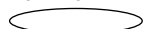
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-03	MW-03	MW-04	MW-04	MW-04
Sample ID			20100226MW-03V09N	20100624MW-03V09N	MW04-5-20-03	MW-04_121703	Dup1
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/26/10	06/24/10	05/20/03	12/17/03	07/22/04
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	238	294	158
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	1.6	1.2	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	6.2	1.9	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	0.1 U	0.1 U	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	11.6	15.8	5.0 U	9.40	10.8
Ferrous Iron (field)	MG/L	-	NA	NA	17.6	2.2	NA
Ferric Iron (lab)	MG/L	-	NA	NA	0.76	1.3	NA
Fluoride	MG/L	1.5	NA	NA	0.27	0.19	0.304
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.00	0.85	0.54	0 U	NA
Oxidation Reduction Potential	mV	-	-138	-170	-115	0 U	NA
pH	S.U.	-	6.32	9.28	NA	NA	NA
Specific Conductance	MS/CM	-	3.39	1.50	1.61	0.99	NA
Temperature	DEG C	-	8.95	16.51	NA	NA	NA
Turbidity	NTU	-	94	5.1	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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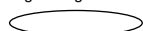
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID			MW-04	MW-04	MW-04VION	MW-04V15N	20070207MW-04V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/22/04	05/31/05	12/20/05	08/14/06	02/07/07
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	10 U	1.0 J	10 U	0.7 J	0.6 J
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	0.7 J	10 U	10 U	10 U	10 U
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	10 U	10 U	10 U	10 U	10 U
Dissolved Gases							
Methane	UG/L	-	99	190	400	420	400
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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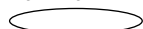
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID			MW-04	MW-04	MW-04VION	MW-04V15N	20070207MW-04V10N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/22/04	05/31/05	12/20/05	08/14/06	02/07/07
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	161	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	10.8	14.2	6.66	5.0 U	5.0 U
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	0.302	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.82	0 U	0 U	4.97	4.73
Oxidation Reduction Potential	mV	-	-136	-126	-161	-154	-81
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	1.05	1.85	1.47	1.14	0.804
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

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Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: WG Jun10 Tab:

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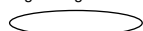
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID			20070801MW-04V10N	20080228MW04V10N	20080812MW04V08N	20090218MW-04V08N	20090218MW-04V08N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/01/07	02/28/08	08/12/08	02/18/09	02/18/09
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	10 U	1.0 J	10 U	1.0 J	1.0 J
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	10 UJ	10 U	10 U	10 U
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	10 U	10 U	10 U	10 U	10 U
Dissolved Gases							
Methane	UG/L	-	43	5,700	290	1,600	1,600
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



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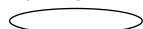
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-04	MW-04	MW-04	MW-04	MW-04
Sample ID			20070801MW-04V10N	20080228MW04V10N	20080812MW04V08N	20090218MW-04V08N	20090218MW-04V08N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/01/07	02/28/08	08/12/08	02/18/09	02/18/09
Parameter	Units	Criteria*				Field Duplicate (1-1)	
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	7.0	5 U	5 U	5 UJ	5 UJ
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.41	2.91	0 U	NA	0 U
Oxidation Reduction Potential	mV	-	-79.2	-136.0	-126	NA	-158
pH	S.U.	-	6.59	6.45	6.65	NA	6.33
Specific Conductance	MS/CM	-	1.241	1.16	0.531	NA	1.75
Temperature	DEG C	-	NA	9.19	21.3	NA	9.36
Turbidity	NTU	-	NA	9	2	NA	4

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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Concentration Exceeds Criteria

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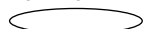
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-04	MW-04	MW-04	MW-04	MW-05
Sample ID			20091013MW-04V08N	20100225MW-04V08FD	20100225MW-04V08N	20100624MW-04V08N	MW05_52103
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/13/09	02/25/10	02/25/10	06/24/10	05/21/03
Parameter	Units	Criteria*	Field Duplicate (1-1)				
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	5.0 U
Benzene	UG/L	1	NA	NA	NA	NA	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	R
Chlorotrifluoroethene (Freon-1113)	UG/L	5	15	6.6 J	7.7 J	12	0 U
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	2.0 U
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	5.0 U
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	5.0 U
Ethylbenzene	UG/L	5	NA	NA	NA	NA	4.0 U
2-Hexanone	UG/L	50	NA	NA	NA	NA	5.0 U
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	5.0 U
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	0.4 J
Trichloroethene	UG/L	5	NA	NA	NA	NA	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	1 U	1 UJ	1 UJ	1 U	5.0 U
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	5.0 U
Xylene (total)	UG/L	5	NA	NA	NA	NA	5.0 U
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	1 U	1 U	1 U	1 U	5.0 U
Dissolved Gases							
Methane	UG/L	-	3,100	5,200	5,100	4,000	27
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	2,110
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	1,670

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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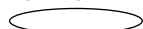
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-04	MW-04	MW-04	MW-04	MW-05
Sample ID			20091013MW-04V08N	20100225MW04V08FD	20100225MW-04V08N	20100624MW-04V08N	MW05_52103
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/13/09	02/25/10	02/25/10	06/24/10	05/21/03
Parameter	Units	Criteria*		Field Duplicate (1-1)			
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	49.8
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	0.25
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	3.6
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	0.22
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	20.8	13	11.3	18.4	50.1
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	1.7
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	0.43
Fluoride	MG/L	1.5	NA	NA	NA	NA	0 U
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.00	NA	0.00	0.80	0.37
Oxidation Reduction Potential	mV	-	-122	NA	-124	-146	26
pH	S.U.	-	6.43	NA	6.50	8.99	NA
Specific Conductance	MS/CM	-	1.83	NA	2.14	1.84	0.426
Temperature	DEG C	-	19.37	NA	8.34	18.45	NA
Turbidity	NTU	-	4.6	NA	1.5	1.9	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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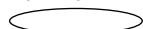
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-05	MW-05	MW-06	MW-06	MW-06
Sample ID			MW-05-121803	MW-05	MW06-6-10-03	MW06-7_22_03	MW06-091803
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/18/03	07/23/04	06/10/03	07/22/03	09/18/03
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	5.0 U	NA	10 U	5.0 U	5.0 U
Benzene	UG/L	1	5.0 U	NA	10 U	5.0 U	5.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	NA	R	R	R
Chlorotrifluoroethene (Freon-1113)	UG/L	5	0 U	10 U	0 U	5.7 NJ	0 U
1,1-Dichloroethene	UG/L	5	2.0 U	NA	4 U	1.2 J	2.0 U
cis-1,2-Dichloroethene	UG/L	5	5.0 U	NA	10 U	1.7 J	1.4 J
trans-1,2-Dichloroethene	UG/L	5	5.0 U	NA	10 U	5.0 U	5.0 U
Ethylbenzene	UG/L	5	4.0 U	NA	8 U	4.0 U	4.0 U
2-Hexanone	UG/L	50	5.0 U	NA	10 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	-	5.0 U	NA	10 U	5.0 U	5.0 U
Tetrachloroethene	UG/L	5	1.0 U	NA	2 U	1.0 U	1.0 U
Trichloroethene	UG/L	5	1.0 U	NA	2 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	5.0 U	0.5 J	220	180	97
Vinyl Chloride	UG/L	2	5.0 U	NA	10 U	1.2 J	5.0 U
Xylene (total)	UG/L	5	5.0 U	NA	10 U	5.0 U	5.0 U
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	5.0 U	10 U	8.8 J	9.5	8.6
Dissolved Gases							
Methane	UG/L	-	6.7	47	49	81	99
Total Metals							
Iron	UG/L	300	15,500	NA	14,400	10,500	8,370 J
Dissolved Metals							
Iron	UG/L	300	39.7 U	NA	14,300	10,300	8,470 J

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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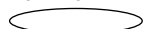
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-05	MW-05	MW-06	MW-06	MW-06
Sample ID			MW-05-121803	MW-05	MW06-6-10-03	MW06-7_22_03	MW06-091803
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/18/03	07/23/04	06/10/03	07/22/03	09/18/03
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	27.5	63.9	184	82.3	74.6
Nitrogen, Ammonia (As N)	MG/L	2	0.1 U	NA	0.19	0.33	0.31
Nitrogen, Kjeldahl, Total	MG/L	-	0.61	NA	0.72	1.1	0.88
Nitrogen, Nitrate	MG/L	10	0.18	NA	0.33	0.1 U	0.1 U
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	61.4	42.3	32.0	30.5	39.2
Ferrous Iron (field)	MG/L	-	0.07	NA	14.3	8.6	6.0
Ferric Iron (lab)	MG/L	-	15.4	NA	0.12	1.9	8.4
Fluoride	MG/L	1.5	0.12	0.103	0.46	0.56	0.37
Oil & Grease	MG/L	-	NA	NA	NA	NA	5 U
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	0.97	0.93	1.07	0 U
Oxidation Reduction Potential	mV	-	121	46	-145	-155	-143
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	0.629	0.463	0.741	0.866	0.581
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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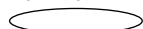
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-06
Sample ID			MW-06_121703	MW-06	Field-Dup	MW-06	MW-06V15FD
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/17/03	07/23/04	05/31/05	05/31/05	12/20/05
Parameter	Units	Criteria*			Field Duplicate (1-1)		Field Duplicate (1-1)
Volatiles							
Acetone	UG/L	50	10 U	NA	NA	NA	NA
Benzene	UG/L	1	10 U	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	0 U	5 J	6.0 J	5.0 J	6.0 J
1,1-Dichloroethene	UG/L	5	4 U	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	1.3 J	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	10 U	NA	NA	NA	NA
Ethylbenzene	UG/L	5	8 U	NA	NA	NA	NA
2-Hexanone	UG/L	50	10 U	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	10 U	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	2 U	NA	NA	NA	NA
Trichloroethene	UG/L	5	2 U	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	250	140 J	1.0 J	1.0 J	10 U
Vinyl Chloride	UG/L	2	10 U	NA	NA	NA	NA
Xylene (total)	UG/L	5	10 U	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	14	23	16	14	10 UJ
Dissolved Gases							
Methane	UG/L	-	78	40	3,600	3,300	6,700
Total Metals							
Iron	UG/L	300	7,690	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	7,670	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



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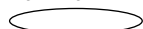
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-06
Sample ID			MW-06_121703	MW-06	Field-Dup	MW-06	MW-06V15FD
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/17/03	07/23/04	05/31/05	05/31/05	12/20/05
Parameter	Units	Criteria*			Field Duplicate (1-1)		Field Duplicate (1-1)
Miscellaneous Parameters							
Chloride	MG/L	250	84.0	60.5	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	0.36	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	0.79	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	0.1 UJ	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	39.1	33.5	5.0 U	5.0 U	5.0 U
Ferrous Iron (field)	MG/L	-	8.7	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	1.0 U	NA	NA	NA	NA
Fluoride	MG/L	1.5	0.42	0.467	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	1.04	NA	0 U	NA
Oxidation Reduction Potential	mV	-	-110	-64	NA	-140	NA
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	0.602	0.513	NA	1.13	NA
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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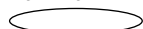
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-06
Sample ID			MW-06V15N	MW-06V15FD	MW-06V15N	20070207MW-06V15FD	20070207MW-06V15N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/20/05	08/15/06	08/15/06	02/07/07	02/07/07
Parameter	Units	Criteria*		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	6.0 J	10 U	10 U	100	100
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	10 U	10 U	3.0 J	3.0 J
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	10 UJ	10 U	10 U	8.0 J	8.0 J
Dissolved Gases							
Methane	UG/L	-	5,600	1,600	1,700	12,000	13,000
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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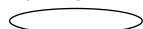
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-06
Sample ID			MW-06V15N	MW-06V15FD	MW-06V15N	20070207MW-06V15FD	20070207MW-06V15N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/20/05	08/15/06	08/15/06	02/07/07	02/07/07
Parameter	Units	Criteria*		Field Duplicate (1-1)		Field Duplicate (1-1)	
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	5.0 U	5.0 U	5.0 U	7.40	7.00
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	NA	6.83	NA	1.05
Oxidation Reduction Potential	mV	-	-140	NA	87	NA	-136
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	1.29	NA	0.033	NA	0.79
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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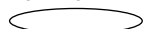
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-06
Sample ID			20070731MW-06V15FD	20070731MW-06V15N	20080228MW06V15FD	20080228MW06V15N	20080812MW06V13N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/31/07	07/31/07	02/28/08	02/28/08	08/12/08
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	18	21	8.0 J	8.0 J	4.0 J
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	10 U	10 UJ	10 U	10 U
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	0.5 J	0.6 J	10 U	10 U	10 U
Dissolved Gases							
Methane	UG/L	-	3,800	2,500	12,000	14,000	12,000
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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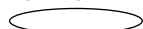
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-06
Sample ID			20070731MW-06V15FD	20070731MW-06V15N	20080228MW06V15FD	20080228MW06V15N	20080812MW06V13N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/31/07	07/31/07	02/28/08	02/28/08	08/12/08
Parameter	Units	Criteria*	Field Duplicate (1-1)		Field Duplicate (1-1)		
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	41.8	44.2	5 U	5 U	17.8
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	NA	0.31	NA	2.61	0 U
Oxidation Reduction Potential	mV	-	NA	-99.7	NA	-122.0	-117
pH	S.U.	-	NA	6.38	NA	6.24	6.37
Specific Conductance	MS/CM	-	NA	1.050	NA	1.21	1.47
Temperature	DEG C	-	NA	NA	NA	12.2	17.0
Turbidity	NTU	-	NA	NA	NA	9	5

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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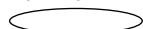
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-07
Sample ID			20090219MW-06V13N	20091013MW-06V13N	20100226MW-06V13N	20100624MW-06V13N	MW07-6-10-03
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/19/09	10/13/09	02/26/10	06/24/10	06/10/03
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	250 U
Benzene	UG/L	1	NA	NA	NA	NA	250 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	R
Chlorotrifluoroethene (Freon-1113)	UG/L	5	34	6.4	35 J	68 J	0 U
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	100 U
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	250 U
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	250 U
Ethylbenzene	UG/L	5	NA	NA	NA	NA	200 U
2-Hexanone	UG/L	50	NA	NA	NA	NA	250 U
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	250 U
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	50 U
Trichloroethene	UG/L	5	NA	NA	NA	NA	50 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	2.0 J	1 U	1 UJ	1 U	5,400
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	250 U
Xylene (total)	UG/L	5	NA	NA	NA	NA	250 U
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	35	1 U	3.6	0.57 J	68 J
Dissolved Gases							
Methane	UG/L	-	9,000	7,300	13,000	9,400	740
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	21,300
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	20,800

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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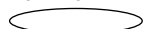
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-06	MW-06	MW-06	MW-06	MW-07
Sample ID			20090219MW-06V13N	20091013MW-06V13N	20100226MW-06V13N	20100624MW-06V13N	MW07-6-10-03
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			02/19/09	10/13/09	02/26/10	06/24/10	06/10/03
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	140
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	0.39
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	1.2
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	0.1 U
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	57.0 J	2.8 J	31.2	52.3	32.8
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	20.2
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	1
Fluoride	MG/L	1.5	NA	NA	NA	NA	0.33
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	0.00	0.00	0.73	0.9
Oxidation Reduction Potential	mV	-	-132	-139	-140	-124	-130
pH	S.U.	-	6.30	6.57	6.46	8.81	NA
Specific Conductance	MS/CM	-	0.84	1.79	2.48	0.958	0.93
Temperature	DEG C	-	13.23	17.80	11.80	17.79	NA
Turbidity	NTU	-	8	2.2	39	0.45	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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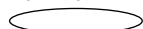
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07	MW-07	MW-07	MW-07	MW-07
Sample ID			MW07	MW07-91703	MW-07_121703	MW-07	MW-07
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/23/03	09/17/03	12/17/03	07/22/04	05/31/05
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	500 U	250 U	50 U	NA	NA
Benzene	UG/L	1	500 U	250 U	14	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	R	R	R	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	0 U	0 U	0 U	210	140
1,1-Dichloroethene	UG/L	5	68 J	100 U	20 U	NA	NA
cis-1,2-Dichloroethene	UG/L	5	500 U	250 U	50 U	NA	NA
trans-1,2-Dichloroethene	UG/L	5	500 U	250 U	50 U	NA	NA
Ethylbenzene	UG/L	5	400 U	200 U	49	NA	NA
2-Hexanone	UG/L	50	500 U	250 U	50 U	NA	NA
4-Methyl-2-Pentanone	UG/L	-	500 U	250 U	50 U	NA	NA
Tetrachloroethene	UG/L	5	100 U	50 U	10 U	NA	NA
Trichloroethene	UG/L	5	100 U	50 U	10 U	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	8,500	6,100	370	110 J	10 U
Vinyl Chloride	UG/L	2	500 U	250 U	50 U	NA	NA
Xylene (total)	UG/L	5	500 U	250 U	50 U	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	130 J	130 J	940	50	2.0 J
Dissolved Gases							
Methane	UG/L	-	420	1,200	1,700	2,500	5,900
Total Metals							
Iron	UG/L	300	21,200	32,700 J	38,900	NA	NA
Dissolved Metals							
Iron	UG/L	300	20,800	32,500 J	38,900	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

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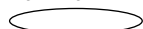
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07	MW-07	MW-07	MW-07	MW-07
Sample ID			MW07	MW07-91703	MW-07_121703	MW-07	MW-07
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			07/23/03	09/17/03	12/17/03	07/22/04	05/31/05
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	168	300 J	328	303	NA
Nitrogen, Ammonia (As N)	MG/L	2	0.6	0.66	0.99	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	1.8	2.1	2.8	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	0.1 U	0.1 U	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	0.1 UJ	NA	NA	NA	NA
Sulfate	MG/L	250	31.0	23.6	5.0 U	5.0 U	5.0 U
Ferrous Iron (field)	MG/L	-	19.8	33.8	19.5	NA	NA
Ferric Iron (lab)	MG/L	-	1.4	14.1	19.4	NA	NA
Fluoride	MG/L	1.5	0.25	0.24	0.19	0.190	NA
Oil & Grease	MG/L	-	NA	5.44 U	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0.1	0 U	3.33	0.88	0 U
Oxidation Reduction Potential	mV	-	-108	-118	-115	-153	-152
pH	S.U.	-	NA	NA	NA	NA	NA
Specific Conductance	MS/CM	-	1.11	1.44	1.94	1.69	1.75
Temperature	DEG C	-	NA	NA	NA	NA	NA
Turbidity	NTU	-	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

UJ - Not detected above the estimated quantitation limit

U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: WG Jun10 Tab2

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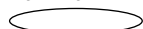
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND ([MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07	MW-07	MW-07	MW-07	MW-07
Sample ID			MW-07V15N	MW-07V15N	20070207MW-07V15N	20070731MW-07V15N	20080228MW07V15N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/20/05	08/14/06	02/07/07	07/31/07	02/28/08
Parameter	Units	Criteria*					
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	47	97	89	82	92
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	10 U	10 U	10 U	6.0 J	10 UJ
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	10 U	1.0 J	3.0 J	10	0.9 J
Dissolved Gases							
Methane	UG/L	-	9,700	6,900	6,200	4,100	7,100
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

UJ - Not detected above the estimated quantitation limit

U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

Advanced Selection: WG Jun10 Tab:

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([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07	MW-07	MW-07	MW-07	MW-07
Sample ID			MW-07V15N	MW-07V15N	20070207MW-07V15N	20070731MW-07V15N	20080228MW07V15N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			12/20/05	08/14/06	02/07/07	07/31/07	02/28/08
Parameter	Units	Criteria*					
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	5.0 U	19.3	5.0 U	6.1	5 U
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	3.47	2.89	0.48	2.64
Oxidation Reduction Potential	mV	-	-169	-163	-121	-113.5	-137.0
pH	S.U.	-	NA	NA	NA	6.78	6.32
Specific Conductance	MS/CM	-	1.65	1.44	2.02	2.182	1.62
Temperature	DEG C	-	NA	NA	NA	NA	9.03
Turbidity	NTU	-	NA	NA	NA	NA	54

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.

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U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

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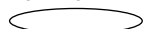
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07	MW-07	MW-07R	MW-07R	MW-07R
Sample ID			20080812MW07V09N	20090218MW-07V09N	20091013MW-07DV15N	20100225MW-07DV15N	20100624MW-07DV15FD
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/08	02/18/09	10/13/09	02/25/10	06/24/10
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatiles							
Acetone	UG/L	50	NA	NA	NA	NA	NA
Benzene	UG/L	1	NA	NA	NA	NA	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA	NA	NA	NA	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	170	150	370 D	150 J	350 J
1,1-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	UG/L	5	NA	NA	NA	NA	NA
Ethylbenzene	UG/L	5	NA	NA	NA	NA	NA
2-Hexanone	UG/L	50	NA	NA	NA	NA	NA
4-Methyl-2-Pentanone	UG/L	-	NA	NA	NA	NA	NA
Tetrachloroethene	UG/L	5	NA	NA	NA	NA	NA
Trichloroethene	UG/L	5	NA	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	3.0 J	46	580 D	18 J	1.1 J
Vinyl Chloride	UG/L	2	NA	NA	NA	NA	NA
Xylene (total)	UG/L	5	NA	NA	NA	NA	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	16	20	76	8.1	1.7 J
Dissolved Gases							
Methane	UG/L	-	5,600	11,000	5,900	6,500	8,100
Total Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA
Dissolved Metals							
Iron	UG/L	300	NA	NA	NA	NA	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

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Only Detected Results Reported.

Detection Limits shown are PQL

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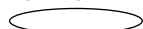
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07	MW-07	MW-07R	MW-07R	MW-07R
Sample ID			20080812MW07V09N	20090218MW-07V09N	20091013MW-07DV15N	20100225MW-07DV15N	20100624MW-07DV15FD
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			08/12/08	02/18/09	10/13/09	02/25/10	06/24/10
Parameter	Units	Criteria*					Field Duplicate (1-1)
Miscellaneous Parameters							
Chloride	MG/L	250	NA	NA	NA	NA	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA	NA	NA	NA	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA	NA	NA	NA	NA
Nitrogen, Nitrate	MG/L	10	NA	NA	NA	NA	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA	NA	NA	NA	NA
Sulfate	MG/L	250	5.6	5 UJ	6.3	7.9	17
Ferrous Iron (field)	MG/L	-	NA	NA	NA	NA	NA
Ferric Iron (lab)	MG/L	-	NA	NA	NA	NA	NA
Fluoride	MG/L	1.5	NA	NA	NA	NA	NA
Oil & Grease	MG/L	-	NA	NA	NA	NA	NA
Field Parameter							
Dissolved Oxygen	MG/L	-	0 U	0 U	0.00	0.00	NA
Oxidation Reduction Potential	mV	-	-167	-154	-139	-146	NA
pH	S.U.	-	6.48	6.18	6.45	6.52	NA
Specific Conductance	MS/CM	-	1.99	2.01	2.74	2.79	NA
Temperature	DEG C	-	17.3	12.11	18.36	10.69	NA
Turbidity	NTU	-	25	21	1.1	1.1	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

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NA - Not Analyzed

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Only Detected Results Reported.

Detection Limits shown are PQL

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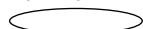
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TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07R
Sample ID			20100624MW-07R/1EN
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			06/24/10
Parameter	Units	Criteria*	
Volatiles			
Acetone	UG/L	50	NA
Benzene	UG/L	1	NA
Methyl ethyl ketone (2-Butanone)	UG/L	50	NA
Chlorotrifluoroethene (Freon-1113)	UG/L	5	390
1,1-Dichloroethene	UG/L	5	NA
cis-1,2-Dichloroethene	UG/L	5	NA
trans-1,2-Dichloroethene	UG/L	5	NA
Ethylbenzene	UG/L	5	NA
2-Hexanone	UG/L	50	NA
4-Methyl-2-Pentanone	UG/L	-	NA
Tetrachloroethene	UG/L	5	NA
Trichloroethene	UG/L	5	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	1
Vinyl Chloride	UG/L	2	NA
Xylene (total)	UG/L	5	NA
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	1.8
Dissolved Gases			
Methane	UG/L	-	8,400
Total Metals			
Iron	UG/L	300	NA
Dissolved Metals			
Iron	UG/L	300	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

B - Value between Instrument Detection Limit and Contract Required Detection Limit.

J - Analyte is reported below the PQL at an estimated concentration.

UJ - Not detected above the estimated quantitation limit

U - Non-Detect

NA - Not Analyzed

R - Rejected

Only Detected Results Reported.

Detection Limits shown are PQL

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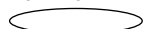
([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

TABLE 3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07R
Sample ID			20100624MW-07R/1EN
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			06/24/10
Parameter	Units	Criteria*	
Miscellaneous Parameters			
Chloride	MG/L	250	NA
Nitrogen, Ammonia (As N)	MG/L	2	NA
Nitrogen, Kjeldahl, Total	MG/L	-	NA
Nitrogen, Nitrate	MG/L	10	NA
Nitrogen, Nitrate-Nitrite	MG/L	10	NA
Sulfate	MG/L	250	11.2
Ferrous Iron (field)	MG/L	-	NA
Ferric Iron (lab)	MG/L	-	NA
Fluoride	MG/L	1.5	NA
Oil & Grease	MG/L	-	NA
Field Parameter			
Dissolved Oxygen	MG/L	-	0.69
Oxidation Reduction Potential	mV	-	-129
pH	S.U.	-	8.83
Specific Conductance	MS/CM	-	2.09
Temperature	DEG C	-	16.45
Turbidity	NTU	-	0.35

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

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J - Analyte is reported below the PQL at an estimated concentration.

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Detection Limits shown are PQL

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([LOGDATE] BETWEEN #05/01/03# AND #6/24/10#) AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD'

Table 4

Comparison of February 2010 to June 2010 Data

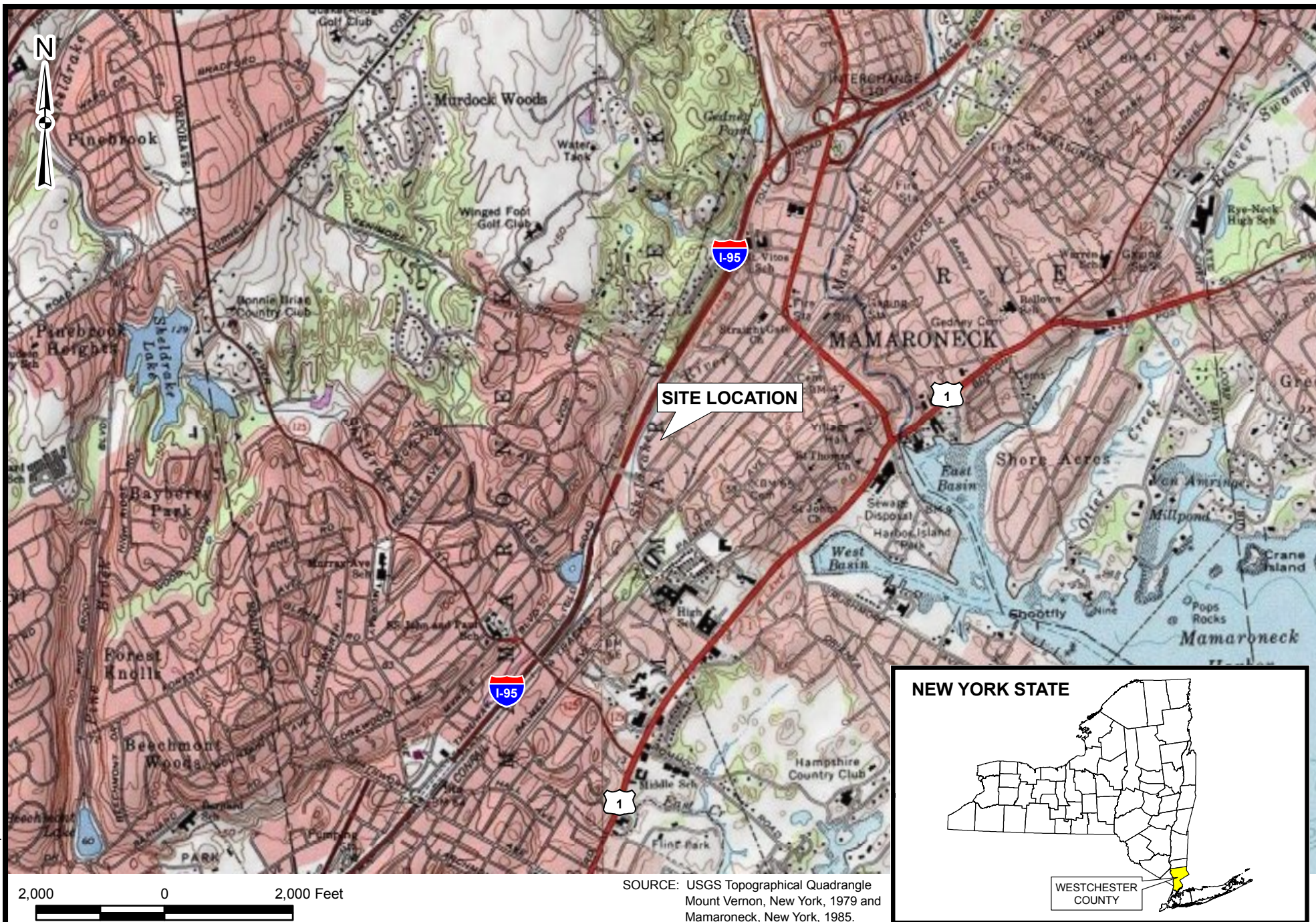
Location	Freon 113	Freon 123a	Freon 1113	Methane	Sulfate	ORP	DO
MW-02	↑	↑	↑	↑	↑	↑	↑
MW-03	↔	↔	↑	↓	↑	↓	↑
MW-04	↔	↔	↑	↓	↑	↓	↑
MW-06	↔	↓	↑	↓	↑	↑	↑
MW-07/07R	↓	↓	↑	↑	↑	↑	↑

Legend

- ↓ Decrease from previous event
- ↑ Increase from previous event
- ↔ No significant change from previous event

Note: Remediation goals were achieved for four consecutive monitoring events at monitoring well GZ-06, therefore sampling at well GZ-06 has been discontinued.

FIGURES



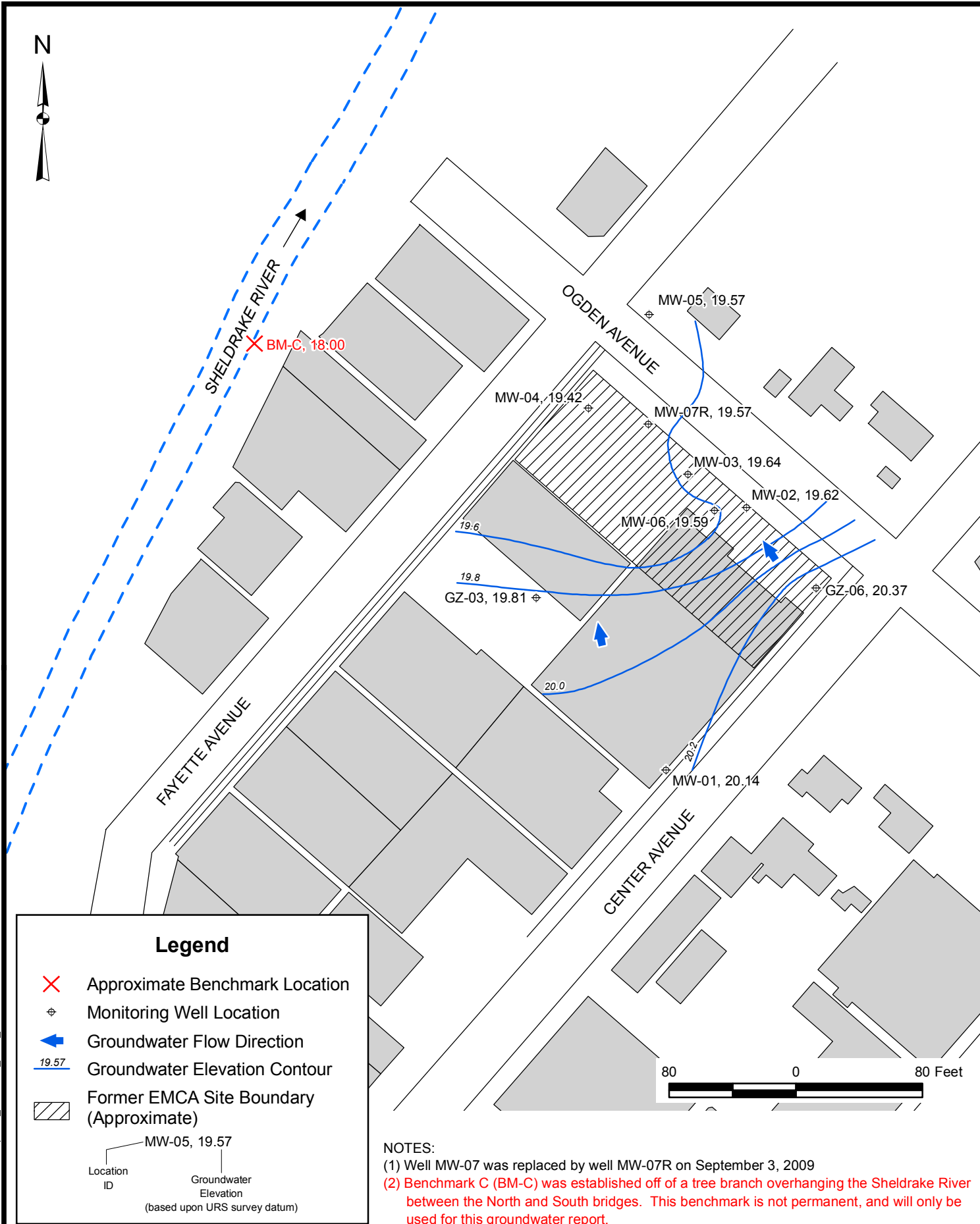




FIGURE 3

FIGURE 4
FORMER EMCA SITE
Freon 113 Concentrations, MW-03 and MW-07/07R

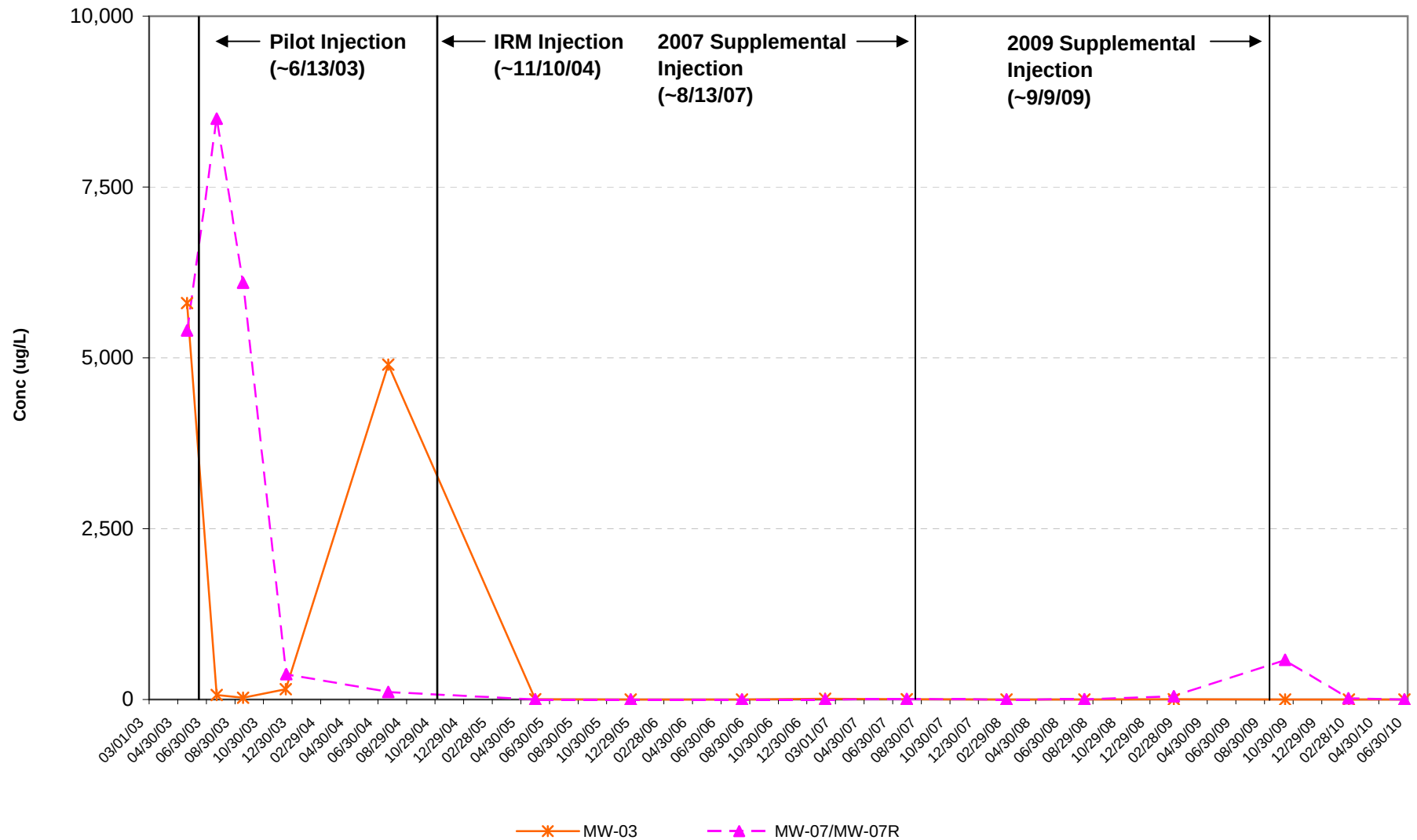


FIGURE 5
FORMER EMCA SITE
Freon 113 Concentrations, GZ-06, MW-02, and MW-06

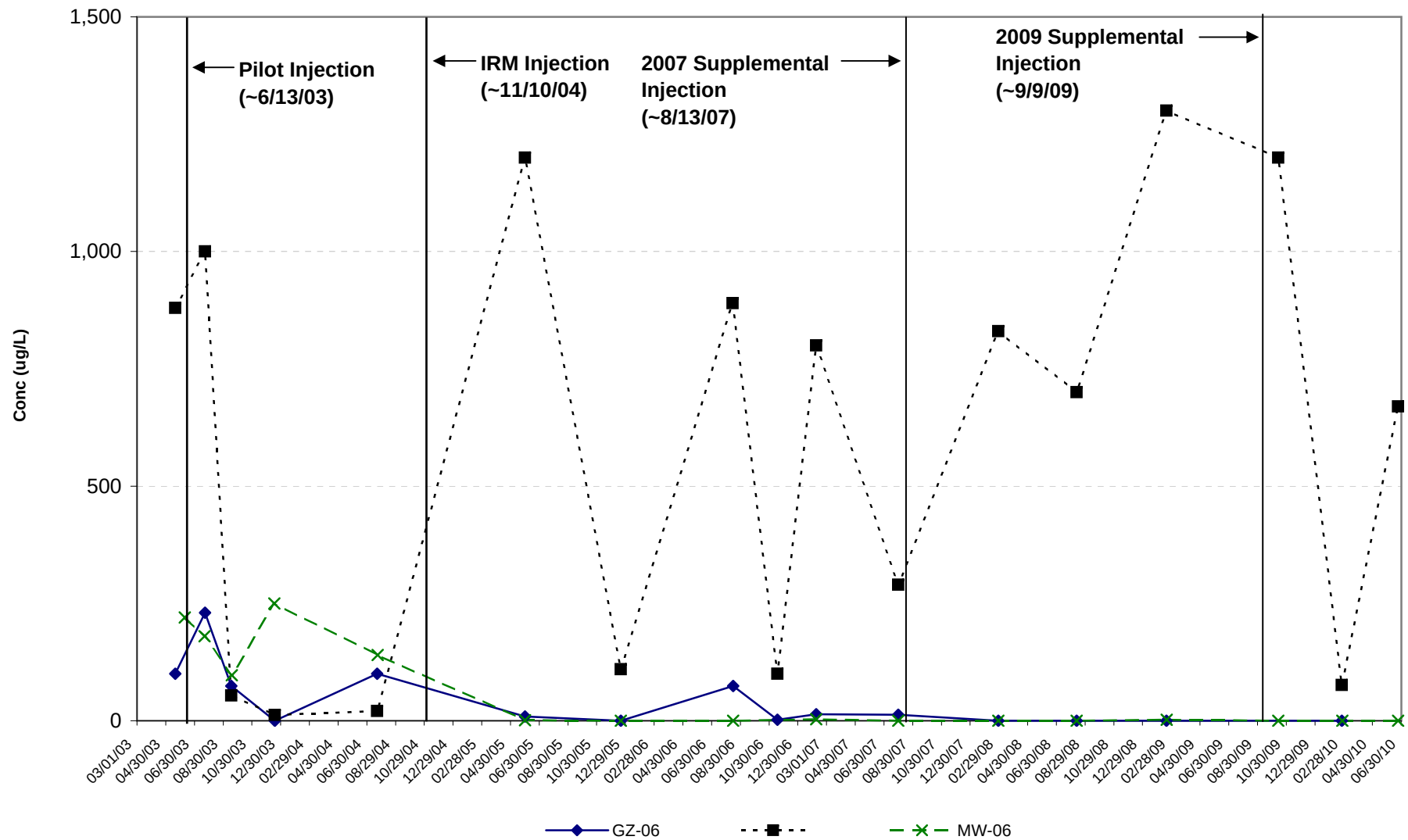


FIGURE 6
FORMER EMCA SITE
Freon 123a Concentrations

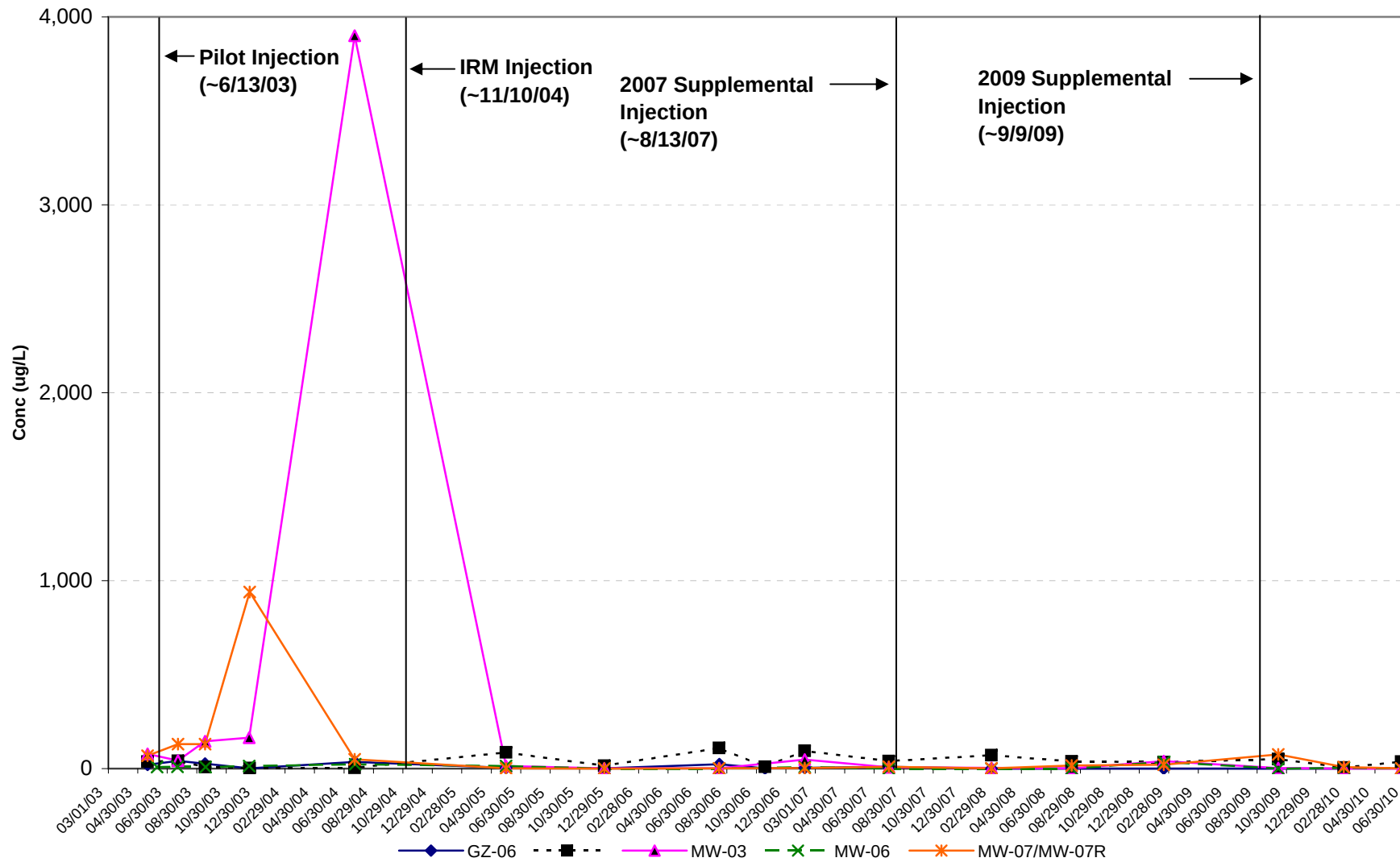


FIGURE 7
FORMER EMCA SITE
Freon 1113 Concentrations

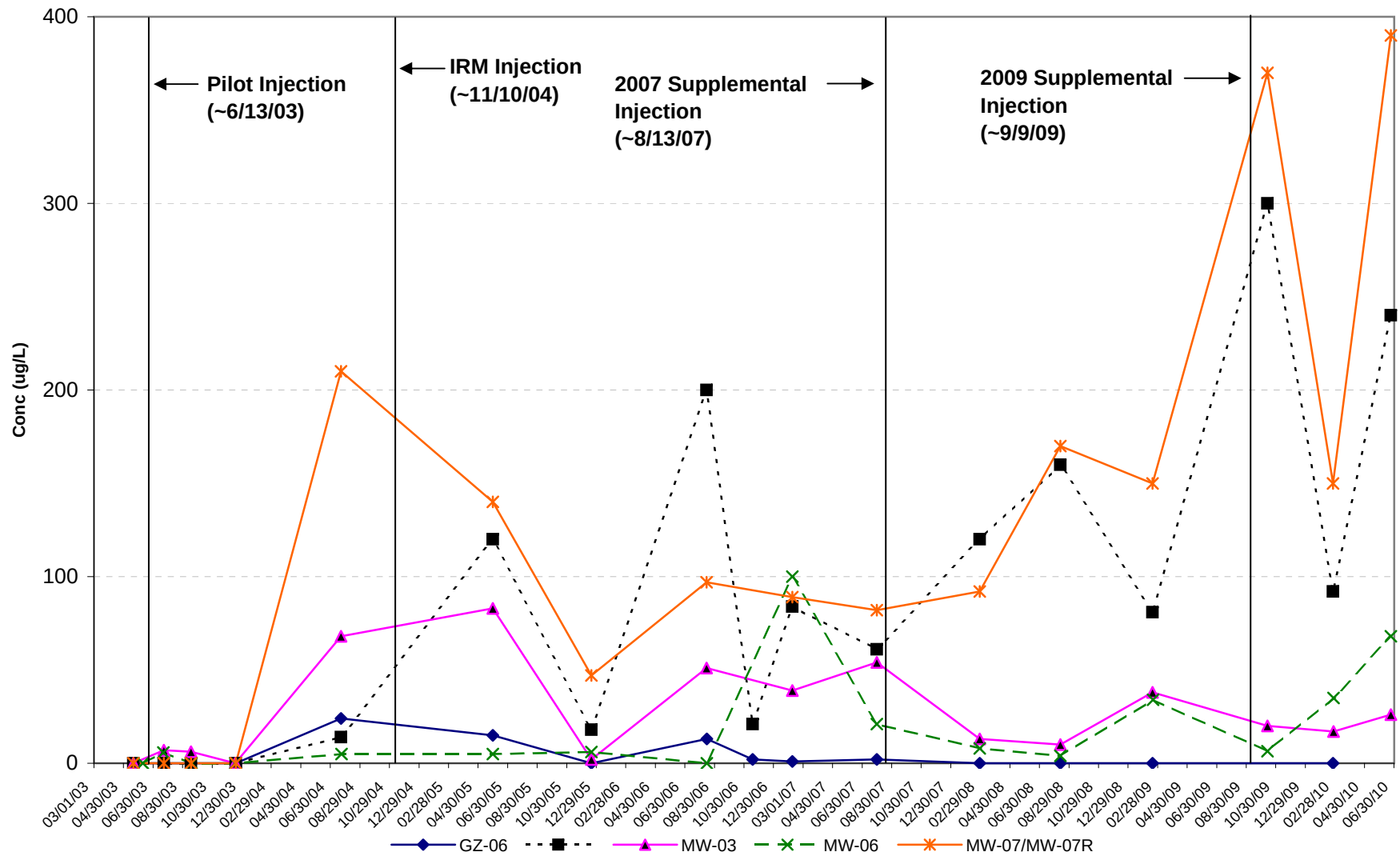


FIGURE 8
FORMER EMCA SITE
Sulfate Concentrations

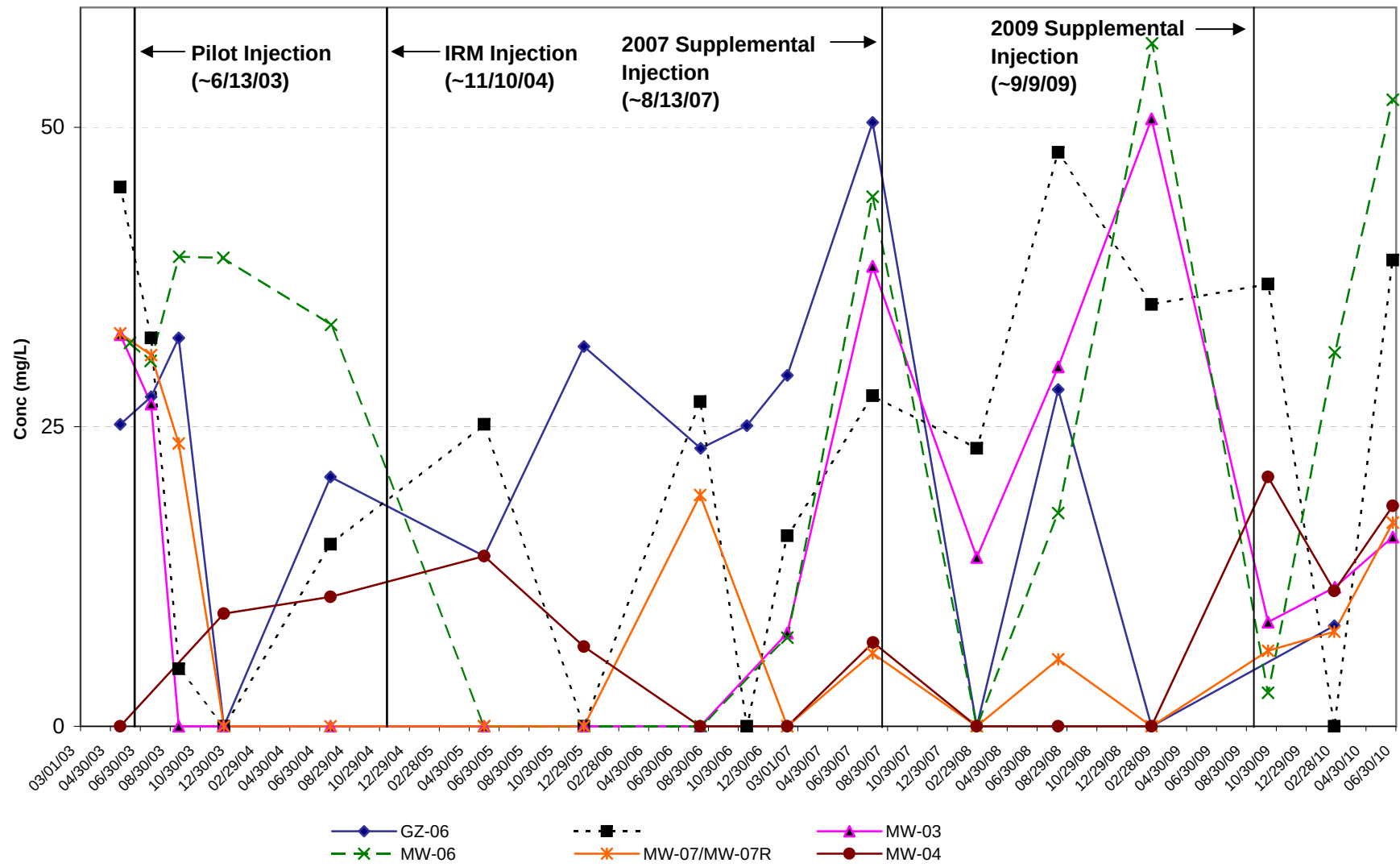


FIGURE 9
FORMER EMCA SITE
Methane Concentrations

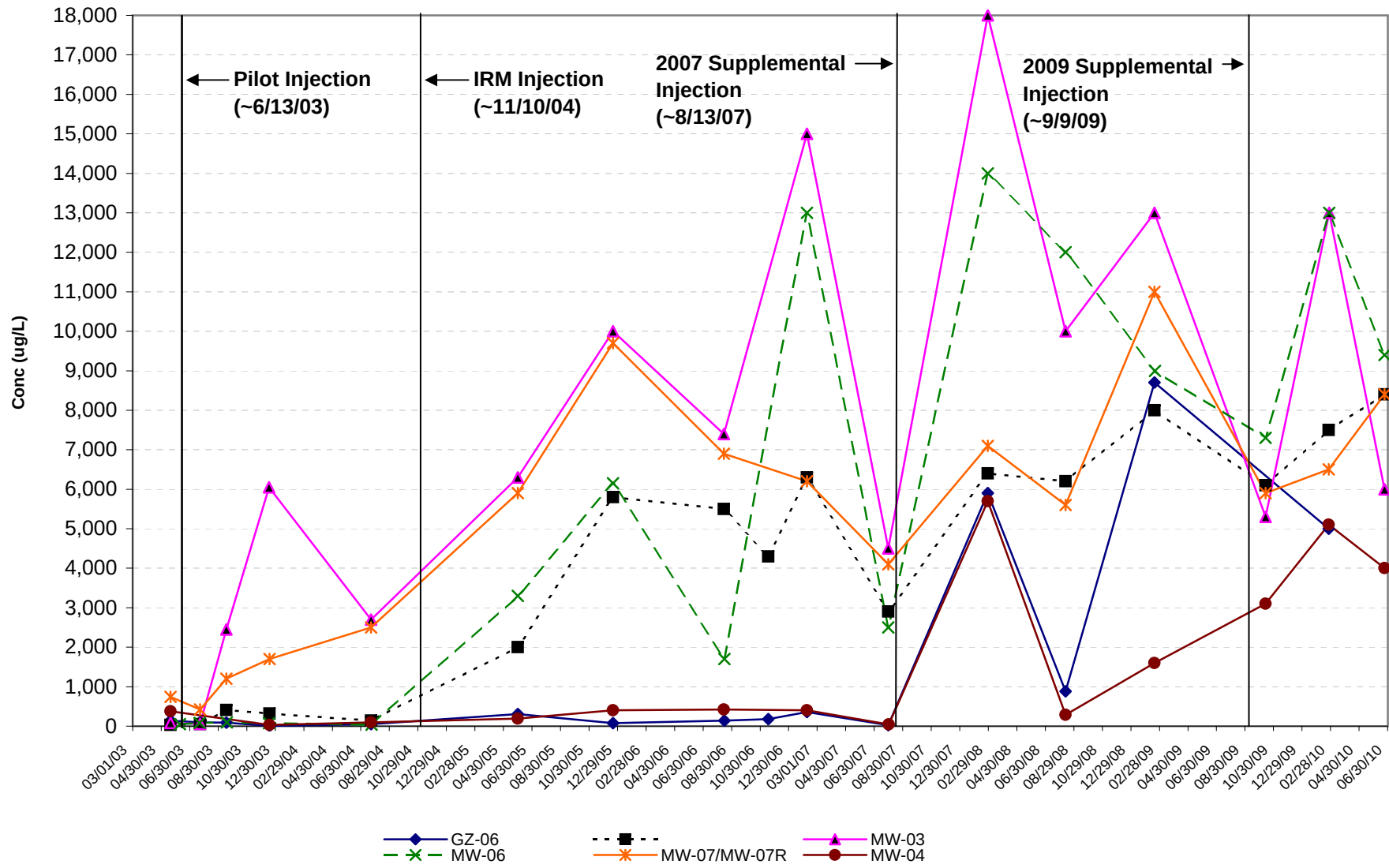


FIGURE 10
FORMER EMCA SITE
Dissolved Oxygen Concentrations

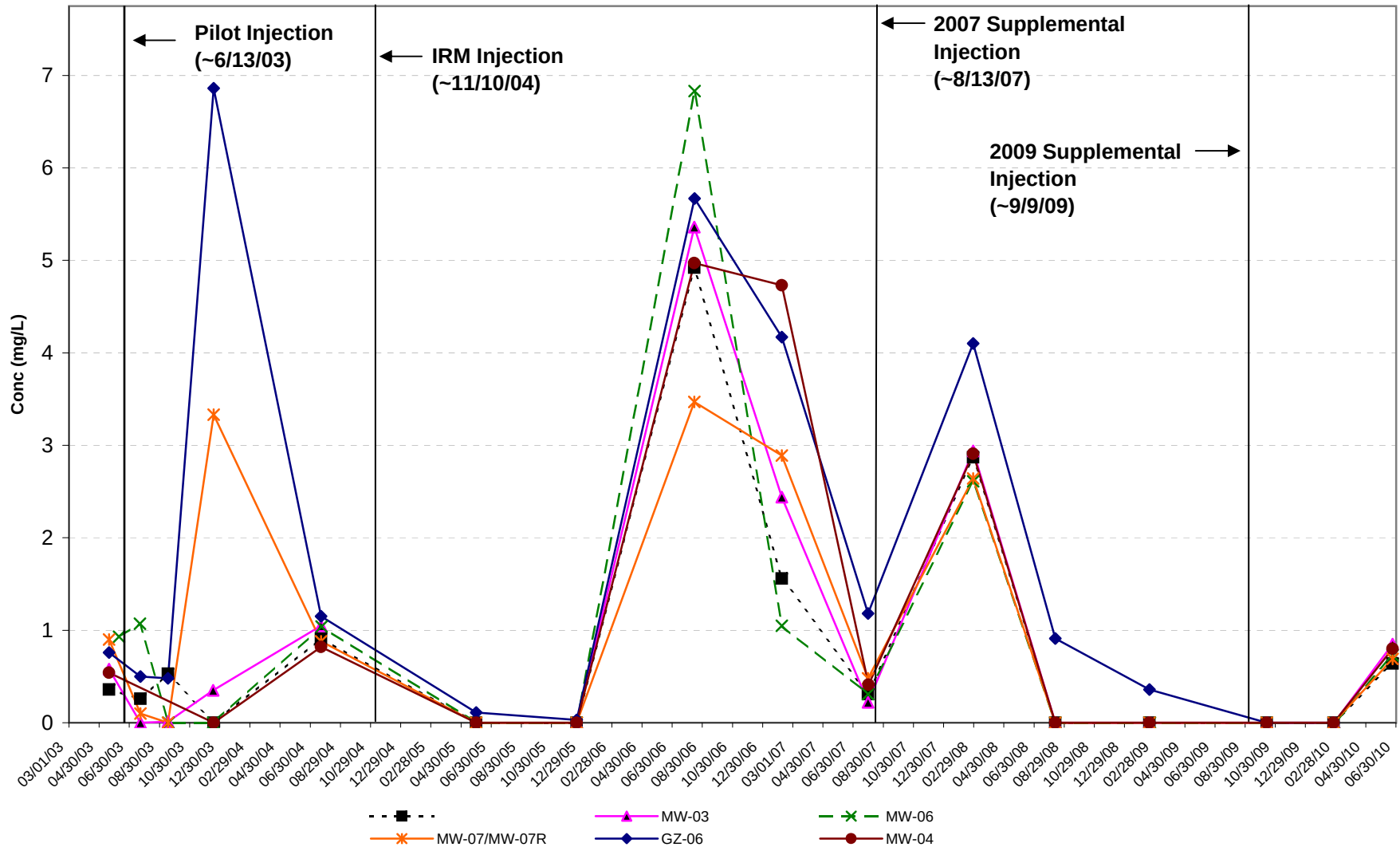


FIGURE 11
FORMER EMCA SITE
Oxidation Reduction Potential

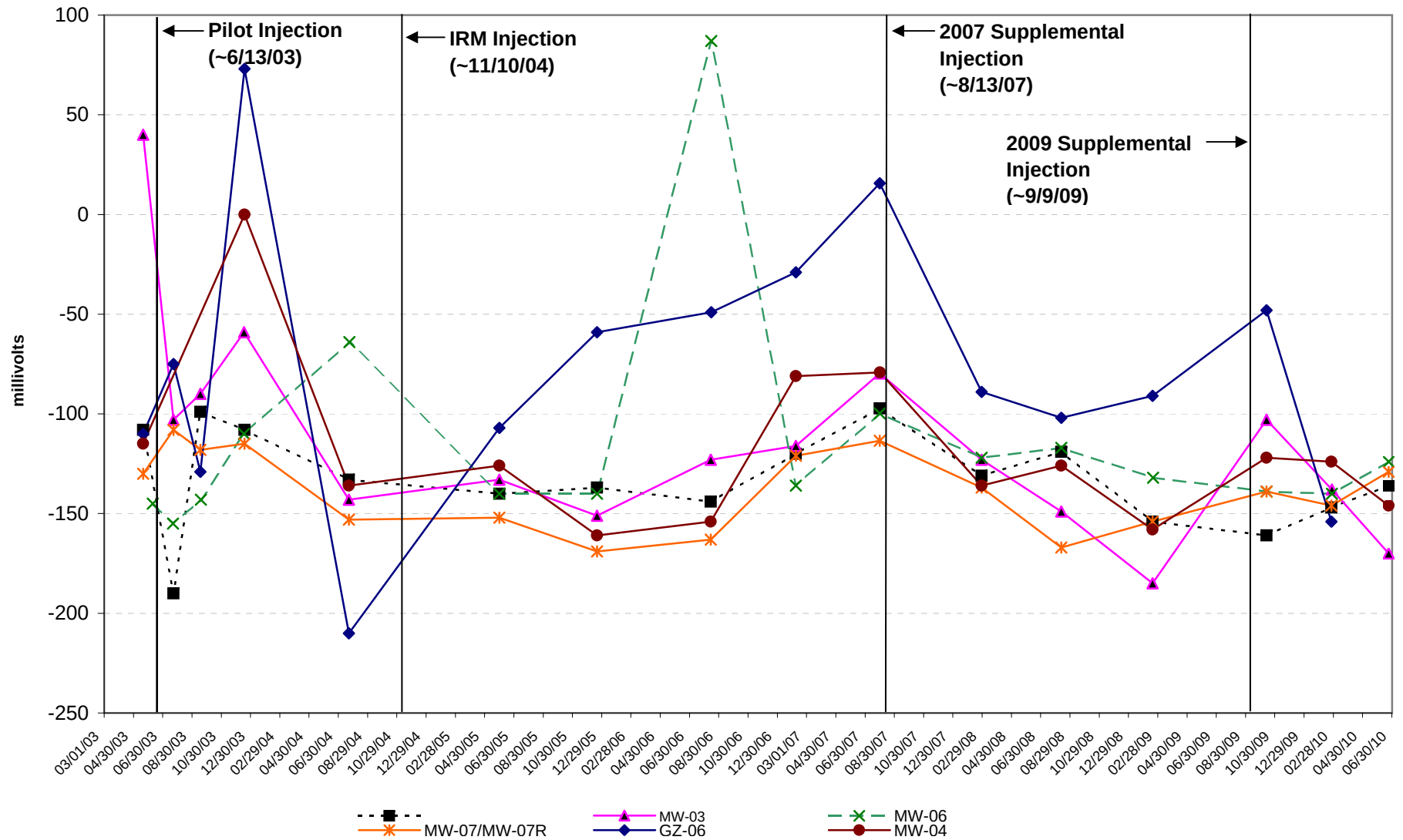
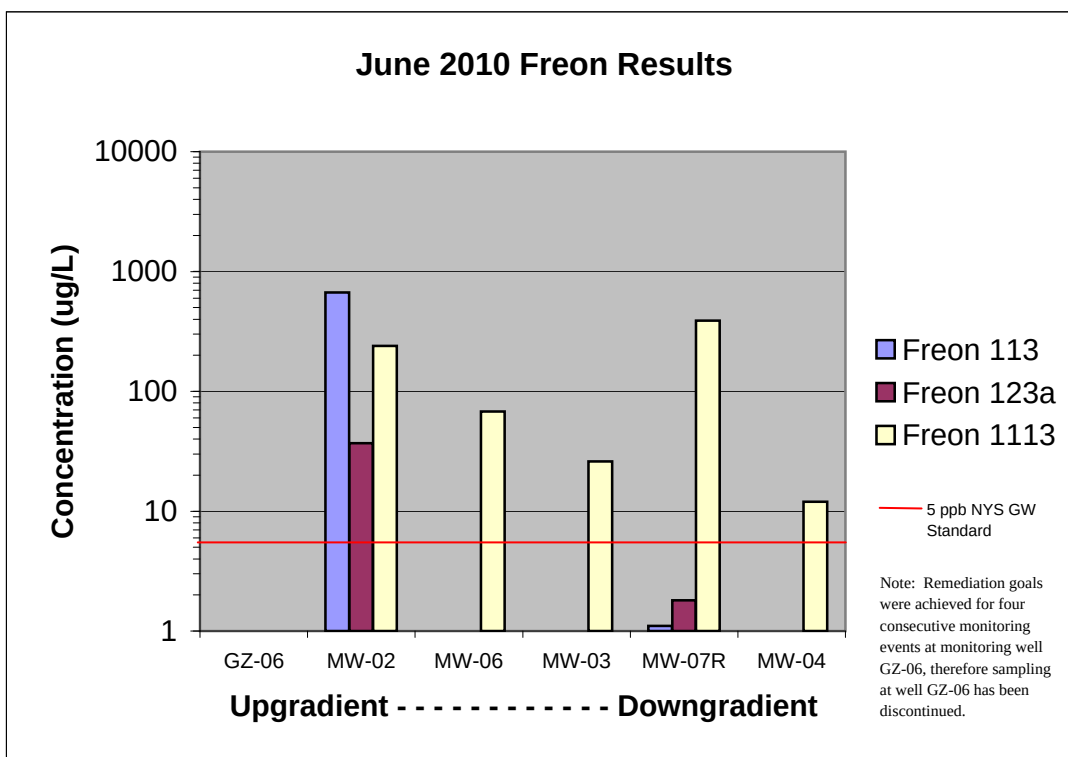
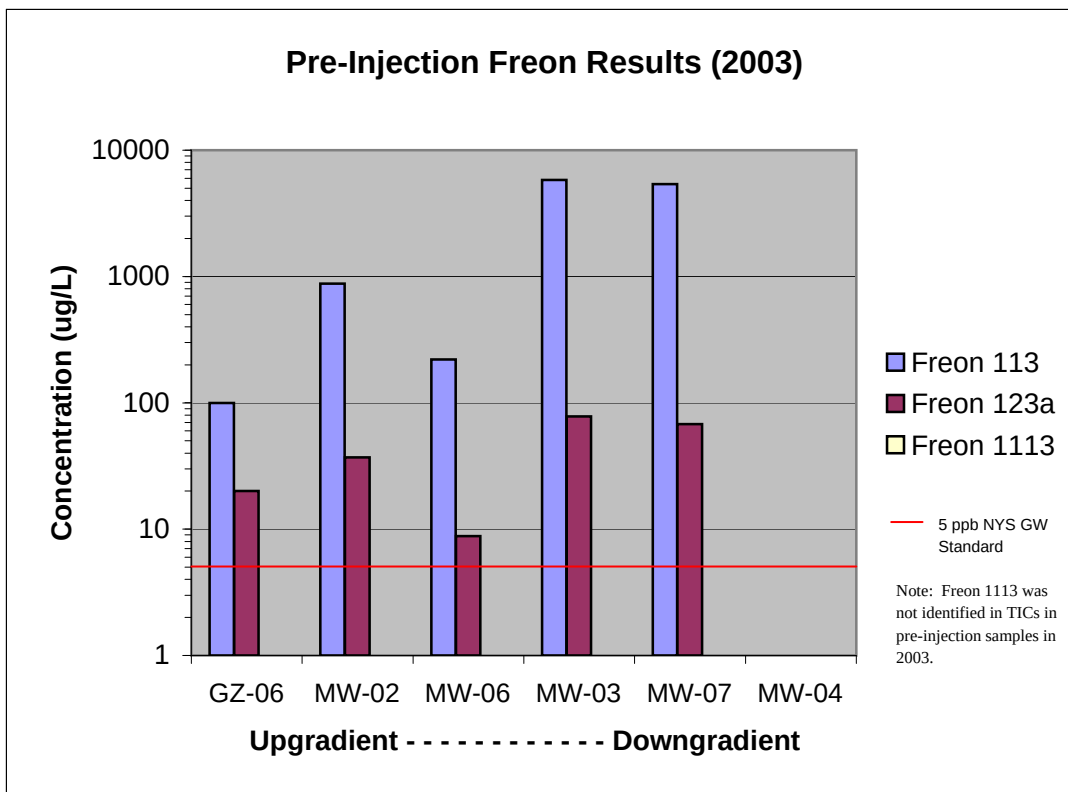


FIGURE 12
FORMER EMCA SITE - FREON CONCENTRATIONS
PRE-INJECTION AND CURRENT RESULTS



APPENDIX A

**LOW FLOW GROUNDWATER
PURGING/SAMPLING LOGS**

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Rohm and Haas - Former EMCA Site Site: Former EMCA Site Well I.D.: MW-02

Date: 6/24/2010 Sampling Personnel: Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device:	Low Flow Peristaltic Pump (GeoPump 2)	Tubing Type:	HDPE and Silicone	Pump/Tubing Inlet Location:	Midpoint of Saturated Screen
---------------------------------	---------------------------------------	--------------	-------------------	-----------------------------------	---------------------------------

Measuring Point:	Below Top of Riser	Initial Depth to Water:	6.01	Depth to Well Bottom:	11.79	Well Diameter:	1"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	0.89	Estimated Purge Volume (liters):	12.0
--------------	-----	-----------------------------------	------	----------------------------------	------

Sample ID:	20100624MW-02V08N	Sample Time:	1647	QA/QC:	--
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Sample Parameters: Freon 113, 1113, 123a, Methane and Sulfate

Notes: Slightly cloudy to start, clear upon sampling

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Rohm and Haas - Former EMCA Site Site: Former EMCA Site Well I.D.: MW-03

Date: 6/24/2010 Sampling Personnel: Tim Ifkovich Company: URS Corporation

Purging/
Sampling
Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE and Silicone Pump/Tubing
Inlet Location: Midpoint of Saturated Screen

Measuring Below Top of Initial Depth Depth to Well Well Screen
Point: Riser to Water: 5.95 Bottom: 14.25 Diameter: 1" Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.3 Estimated Purge Volume (liters): 17.1

Sample ID: 20100624MW-03V09N Sample Time: 1340 QA/QC: MS/MSD

Sample Parameters: Freon 113, 1113, 123a, Methane and Sulfate

Notes: Tiny black flecks, blackish tint, slight sheen on water in purge bucket, clear upon sampling

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1230	9.47	16.26	2.13	1.55	95	-145	435	5.95
1235	9.31	16.76	1.78	1.58	75	-144	230	6.64
1240	9.25	16.74	1.73	1.43	40	-146	230	6.69
1245	9.16	16.73	1.66	1.22	17	-147	230	6.75
1250	9.16	16.80	1.65	1.14	10	-148	230	6.77
1255	9.15	16.83	1.63	1.08	7.4	-149	230	6.79
1300	9.21	16.65	1.61	1.03	4.8	-154	230	6.81
1305	9.25	16.47	1.57	1.00	5.6	-157	230	6.81
1310	9.17	16.61	1.63	1.00	5.2	-160	230	6.81
1315	9.19	16.46	1.63	0.93	5.2	-163	230	6.82
1320	9.23	16.35	1.58	0.91	5.6	-164	230	6.83
1325	9.24	16.38	1.57	0.89	5.4	-165	230	6.84
1330	9.25	16.46	1.54	0.87	5.2	-168	230	6.85
1335	9.27	16.47	1.53	0.86	5.3	-168	230	6.85
1340	9.28	16.51	1.50	0.85	5.1	-170	230	6.86
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vq_{d1} = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Rohm and Haas - Former EMCA Site Site: Former EMCA Site Well I.D.: MW-04

Date: 6/24/2010 Sampling Personnel: Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device:	Low Flow Peristaltic Pump (GeoPump 2)	Tubing Type:	HDPE and Silicone	Pump/Tubing Inlet Location:	Midpoint of Saturated Screen
---------------------------------	---------------------------------------	--------------	-------------------	-----------------------------------	---------------------------------

Measuring Point:	Below Top of Riser	Initial Depth to Water:	5.89	Depth to Well Bottom:	11.76	Well Diameter:	1"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	0.90	Estimated Purge Volume (liters):	8.3
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Sample ID:	20100624MW-04V08N	Sample Time:	1545	QA/QC:	--
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Sample Parameters: Freon 113, 1113, 123a, Methane and Sulfate

Notes: Slight sheen on water in purge bucket, clear upon sampling

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Rohm and Haas - Former EMCA Site Site: Former EMCA Site Well I.D.: MW-06

Date: 6/24/2010 Sampling Personnel: Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device:	Low Flow Peristaltic Pump (GeoPump 2)	Tubing Type:	HDPE and Silicone	Pump/Tubing Inlet Location:	Midpoint of Saturated Screen
---------------------------------	---------------------------------------	--------------	-------------------	-----------------------------------	---------------------------------

Measuring Point:	Below Top of Riser	Initial Depth to Water:	6.18	Depth to Well Bottom:	18.62	Well Diameter:	1"	Screen Length:	10'
------------------	--------------------	-------------------------	------	-----------------------	-------	----------------	----	----------------	-----

Casing Type:	PVC	Volume in 1 Well Casing (liters):	1.9	Estimated Purge Volume (liters):	14.0
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Sample ID:	20100624MW-06V13N	Sample Time:	1750	QA/QC:	--
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Sample Parameters: Freon 113, 1113, 123a, Methane and Sulfate

Notes: Clear upon sampling

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Rohm and Haas - Former EMCA Site Site: Former EMCA Site Well I.D.: MW-07R

Date: 6/24/2010 Sampling Personnel: Tim Ifkovich Company: URS Corporation

Purging/ Sampling Device:	Low Flow Peristaltic Pump (GeoPump 2)	Tubing Type:	HDPE and Silicone	Pump/Tubing Inlet Location:	Midpoint of Saturated Screen
---------------------------------	---------------------------------------	--------------	-------------------	-----------------------------------	---------------------------------

Measuring Point:	Below Top of Riser	Initial Depth to Water:	6.06	Depth to Well Bottom:	19.93	Well Diameter:	1"	Screen Length:	10'
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Casing Type:	PVC	Volume in 1 Well Casing (liters):	2.1	Estimated Purge Volume (liters):	11.2
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Sample ID:	20100624MW-07RV15N	Sample Time:	1450	QA/QC:	Field Duplicate
------------	--------------------	--------------	------	--------	-----------------

Sample Parameters: Freon 113, 1113, 123a, Methane and Sulfate

Notes: Clear upon sampling

PURGE PARAMETERS

[illegible]

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft;
4 inch diameter well = 2470 ml/ft ($vql_w = \pi r^2 h$)

APPENDIX B

DATA USABILITY SUMMARY REPORT

APPENDIX B

DATA USABILITY SUMMARY REPORT

JUNE 2010 SAMPLING EVENT

FORMER EMCA SITE

SITE NO. 360025

MAMARONECK, NEW YORK

Analyses Performed by:

TESTAMERICA ANALYTICAL TESTING CORPORATION

777 New Durham Road

Edison, New Jersey 08817

Prepared for:

The Dow Chemical Company

(Formerly ROHM & HAAS Company)

3100 State Road

Croydon, PA 19021

Prepared by:

URS CORPORATION

77 Goodell Street

Buffalo, New York 14203

AUGUST 2010

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TABLES (Following Text)

Table B-1	Sample and Analysis Summary – June 2010
Table B-2	Groundwater Analytical Results
Table B-3	Field QC Analytical Results

ATTACHMENTS (Following Tables)

Attachment A – Validated Analytical Results (Form 1's)
Attachment B – Support Documentation

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for the Development of Data Usability Summary Reports*, December 2002. This DUSR discusses the analytical data for five (5) groundwater samples, one field duplicate, one matrix spike/matrix spike duplicate (MS/MSD) pair, and one trip blank collected by URS personnel on June 24, 2010, as summarized on Table B-1. The samples were collected as part of the semi-annual groundwater monitoring event at the Former EMCA Site located in Mamaroneck, New York.

II. ANALYTICAL METHODOLOGIES

The groundwater samples were analyzed by TestAmerica Laboratories, Inc., located in Edison, New Jersey, for the following parameters:

Parameter	Method No.	References
Volatile Organic Compounds (VOCs)*	SW8260B	1
Methane	RSK-175/SW3810	2
Sulfate	EPA 375.4	1

Notes:

* - VOCs include 1,1,2-trichloro-1,2,2-trifluoroethane (Freon-113), 1,2-dichloro-1,1,2-trifluoroethane (Freon-123A), and chlorotrifluoroethene (Freon-1113).

References:

1. NYSDEC Analytical Services Protocol, July 2005.
2. USEPA, R.S. Kerr Environmental Research Laboratory, March 15, 1989.

III. DATA VALIDATION

A limited data validation was performed following the guidelines in USEPA Region II *Standard Operating Procedure for the Validation of Organic Data Acquired Using SW-846 Method 8260B*, SOP No. HW-24, Rev. #2, August 2008 and the intent of USEPA Region II *Evaluation of Metals Data for the Contract Laboratory Program, based on SOW – ILM05.3*, SOP No. HW-2, Revision 13, September 2006. The validated groundwater and field quality control (QC) analytical results are presented in Tables B-2 and B-3, respectively. Copies of the validated laboratory results (i.e., Form 1's) are presented in Attachment A. Copies of the case narratives, chain-of-custodies, and documentation supporting the qualification of data are presented in Attachment B. Only problems affecting data usability are discussed in this report.

IV. DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP) Category B requirements.

V. PRESERVATION/ SAMPLE RECEIPT/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), except that the laboratory did not document the date/time the samples were received at the lab. A copy of the FedEx tracking form is presented in Attachment B, which indicates the samples were received at the lab on 06/25/10 at 10:16 a.m.

VI. NONCONFORMANCES

Instrument Calibration

The percent differences (%Ds) between the initial calibration (ICAL) average relative response factors (RRFs) and the RRFs in the continuing calibration (CCAL) standard associated with groundwater samples 20100624MW-06V13N and 20100624MW-07RV15FD were greater than 20% for Freon-123a and Freon-1113. In addition, the minimum RRF for Freon-1113 was less than 0.050

in the CCAL. The Freon-123a and Freon-1113 results for the above referenced groundwater samples were qualified 'J' or 'UJ', as summarized on Table B-2. Documentation supporting the qualification of data (i.e., Forms 5 and 7) is presented in Attachment B.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, except where previously noted. Those results qualified 'J' (estimated) or 'UJ' (estimated quantitation limit) during the data validation are considered conditionally usable. URS does not recommend the re-collection of any samples at this time.

TABLE B-1
SAMPLE AND ANALYSIS SUMMARY - JUNE 2010
FORMER EMCA SITE, MAMARONECK, NEW YORK

SDG Nos.	Sample ID	Matrix	Date of Collection	VOCs*	Methane	Sulfate	Comments
460-14649-1	20100624MW-03V09N	GW	06/24/10	X	X	X	MS/MSD
	20100624MW-07RV15N	GW		X	X	X	---
	20100624MW-07RV15FD	GW		X	X	X	Field Duplicate of MW-07R
	20100624MW-04V08N	GW		X	X	X	---
	20100624MW-02V08N	GW		X	X	X	---
	20100624MW-06V13N	GW		X	X	X	---
	TB062410	Water		X	X	---	Trip Blank

Notes:

* - Volatile Organic Compounds (VOCs) include 1,1,2-trichloro-1,2,2-trifluoroethane (Freon-113); 1,2-dichloro-1,1,2-trifluoroethane (Freon-123a); and chlorotrifluoroethene (Freon-1113).

X - Parameter requested.

--- - Parameter not requested/analyzed or no comment.

GW - Groundwater

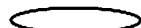
MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE B-2
GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-02	MW-03	MW-04	MW-06	MW-07R
Sample ID			20100624MW-02V08N	20100624MW-03V09N	20100624MW-04V08N	20100624MW-06V13N	20100624MW-07V08N
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			06/24/10	06/24/10	06/24/10	06/24/10	06/24/10
Parameter	Units	Criteria*					Field Duplicate (1-1)
Volatiles							
Chlorotrifluoroethane (Freon-1113)	UG/L	5	240	26	12	68 J	350 J
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	670	1 U	1 U	1 U	1.1 J
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	37	0.5 J	1 U	0.57 J	1.7 J
Dissolved Gases							
Methane	UG/L	-	8,400	6,000	4,000	9,400	8,100
Miscellaneous Parameters							
Sulfate	MG/L	250	38.9	15.8	18.4	52.3	17
Field Parameter							
Dissolved Oxygen	MG/L	-	0.64	0.85	0.80	0.73	NA
Oxidation Reduction Potential	mV	-	-136	-170	-146	-124	NA
pH	S.U.	-	8.91	9.28	8.99	8.81	NA
Specific Conductance	MS/CM	-	1.70	1.50	1.84	0.958	NA
Temperature	DEG C	-	16.71	16.51	18.45	17.79	NA
Turbidity	NTU	-	3.0	5.1	1.9	0.45	NA

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Non-Detect

J - Analyte is reported below the PQL at an estimated concentration.

UJ - Not detected above the estimated quantitation limit

MADE BY: PRF 08/04/10 CHKD BY: MEB_08/06/10

Detection Limits shown are PQL

TABLE B-2
GROUNDWATER ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID			MW-07R
Sample ID			20100624MW- 07014001
Matrix			Groundwater
Depth Interval (ft)			-
Date Sampled			06/24/10
Parameter	Units	Criteria*	
Volatiles			
Chlorotrifluoroethene (Freon-1113)	UG/L	5	390
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	5	1
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	5	1.8
Dissolved Gases			
Methane	UG/L	-	8,400
Miscellaneous Parameters			
Sulfate	MG/L	250	11.2
Field Parameter			
Dissolved Oxygen	MG/L	-	0.69
Oxidation Reduction Potential	mV	-	-129
pH	S.U.	-	8.83
Specific Conductance	MS/CM	-	2.09
Temperature	DEG C	-	16.45
Turbidity	NTU	-	0.35

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, Revised April 2000.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

U - Non-Detect

J - Analyte is reported below the PQL at an estimated concentration.

UU - Not detected above the estimated quantitation limit

MADE BY: PRF 08/04/10 CHKD BY: MEB_08/06/10

Detection Limits shown are PQL

TABLE B-3
FIELD QC ANALYTICAL RESULTS
FORMER EMCA SITE, MAMARONECK, NEW YORK

Location ID		FIELDQC
Sample ID		TB062410
Matrix		Water
Depth Interval (ft)		-
Date Sampled		06/24/10
Parameter	Units	Trip Blank (1-1)
Volatiles		
Chlorotrifluoroethene (Freon-1113)	UG/L	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113)	UG/L	1 U
1,2-Dichloro-1,1,2-trifluoroethane (Freon-123A)	UG/L	1 U
Dissolved Gases		
Methane	UG/L	2.7 U

Flags assigned during chemistry validation are shown.

U - Non-Detect

MADE BY: PRF 08/04/10 CHKD BY: MEB_08/06/10

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED ANALYTICAL RESULTS (FORM 1's)

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D – The sample results are reported from a separate secondary dilution analysis.

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-03V09N

Lab Sample ID: 460-14649-1

Date Sampled: 06/24/2010 1340

Client Matrix: Water

Date Received: 06/24/2010 1800

3810M Methane, Ethene, Ethano, and Propane using Static Headspace

Method:	3810M	Analysis Batch: 460-41542	Instrument ID:	VOAGC2
Preparation:	N/A		Lab File ID:	scr0186.d
Dilution:	25		Initial Weight/Volume:	10 mL
Date Analyzed:	06/30/2010 0107		Final Weight/Volume:	10 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	6000		11	67

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-07RV15N

Lab Sample ID: 460-14649-2

Date Sampled: 06/24/2010 1450

Client Matrix: Water

Date Received: 06/24/2010 1800

3810M Methane, Ethene, Ethane, and Propane using Static Headspace

Method: 3810M

Analysis Batch: 460-41542

Instrument ID:

VOAGC2

Preparation: N/A

Lab File ID:

scr0197.d

Dilution: 50

Initial Weight/Volume:

10 mL

Date Analyzed: 06/30/2010 0258

Final Weight/Volume:

10 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	8400		22	130

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-07RV15FD

Lab Sample ID: 460-14649-3

Date Sampled: 06/24/2010 1450

Client Matrix: Water

Date Received: 06/24/2010 1800

3810M Methane, Ethene, Ethane, and Propane using Static Headspace

Method: 3810M

Analysis Batch: 460-41542

Instrument ID:

VOAGC2

Preparation: N/A

Lab File ID:

scr0199.d

Dilution: 25

Initial Weight/Volume:

10 mL

Date Analyzed: 06/30/2010 0318

Final Weight/Volume:

10 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	8100		11	67

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-04V08N

Lab Sample ID: 460-14649-4

Date Sampled: 06/24/2010 1545

Client Matrix: Water

Date Received: 06/24/2010 1800

3810M Methane, Ethene, Ethane, and Propane using Static Headspace

Method:	3810M	Analysis Batch: 460-41542	Instrument ID:	VOAGC2
Preparation:	N/A		Lab File ID:	scr0198.d
Dilution:	20		Initial Weigh/Volume:	10 mL
Date Analyzed:	06/30/2010 0308		Final Weigh/Volume:	10 mL
Date Prepared:				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	4000		8.6	54

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-02V08N

Lab Sample ID: 460-14649-5

Date Sampled: 06/24/2010 1647

Client Matrix: Water

Date Received: 06/24/2010 1800

3810M Methane, Ethene, Ethane, and Propane using Static Headspace

Method: 3810M

Analysis Batch: 460-41542

Instrument ID:

VOAGC2

Preparation: N/A

Lab File ID:

scr0200 d

Dilution: 25

Initial Weight/Volume:

10 mL

Date Analyzed: 06/30/2010 0328

Final Weight/Volume:

10 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	8400		11	67

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-06V13N

Lab Sample ID: 460-14649-6

Date Sampled: 06/24/2010 1750

Client Matrix: Water

Date Received: 06/24/2010 1800

3810M Methane, Ethene, Ethane, and Propane using Static Headspace

Method: 3810M

Analysis Batch: 460-41542

Instrument ID:

VOAGC2

Preparation: N/A

Lab File ID:

scr0196.d

Dilution: 25

Initial Weight/Volume:

10 mL

Date Analyzed: 06/30/2010 0248

Final Weight/Volume:

10 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	9400		11	67

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: TB062410

Lab Sample ID: 460-14649-7TB

Date Sampled: 06/24/2010 0000

Client Matrix: Water

Date Received: 06/24/2010 1800

3810M Methane, Ethene, Ethane, and Propane using Static Headspace

Method: 3810M

Analysis Batch: 460-41542

Instrument ID:

VOAGC2

Preparation: N/A

Lab File ID:

scr0195.d

Dilution: 1.0

Initial Weight/Volume:

10 mL

Date Analyzed: 06/30/2010 0238

Final Weight/Volume:

10 mL

Date Prepared:

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	2.7	U	0.43	2.7

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-03V09N

Lab Sample ID: 460-14649-1

Date Sampled: 06/24/2010 1340

Client Matrix: Water

Date Received: 06/24/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 460-42326

Instrument ID: VOAMS13

Preparation: 5030B

Lab File ID: p38060.d

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 07/08/2010 0514

Final Weight/Volume: 5 mL

Date Prepared: 07/08/2010 0514

Analyte	Result (ug/L)	Qualifier	MDL	RL
Freon TF	1.0	U	0.28	1.0
Chlorotrifluoroethene	26		0.55	1.0
1,2-Dichloro-1,1,2-trifluoroethane	0.50	J	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 122
Toluene-d8 (Surr)	101		69 - 125
Bromofluorobenzene	97		69 - 135

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-07RV15N

Lab Sample ID: 460-14649-2

Date Sampled: 06/24/2010 1450

Client Matrix: Water

Date Received: 06/24/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 460-42326	Instrument ID:	VOAMS13
Preparation:	5030B		Lab File ID:	p38064.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/08/2010 0651		Final Weight/Volume:	5 mL
Date Prepared:	07/08/2010 0651			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Freon TF	1.0		0.28	1.0
Chlorotrifluoroethene	390		0.55	1.0
1,2-Dichloro-1,1,2-trifluoroethane	1.8		0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 122
Toluene-d8 (Surr)	100		69 - 125
Bromofluorobenzene	99		69 - 135

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-07RV15FD

Lab Sample ID: 460-14649-3

Date Sampled: 06/24/2010 1450

Client Matrix: Water

Date Received: 06/24/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 460-42290	Instrument ID:	VOAMS13
Preparation:	5030B		Lab File ID:	p38078.d
Dilution:	2.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/08/2010 1234		Final Weight/Volume:	5 mL
Date Prepared:	07/08/2010 1234			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Freon TF	1.1	J	0.56	2.0
Chlorotrifluoroethene	350	J	1.1	2.0
1,2-Dichloro-1,1,2-trifluoroethane	1.7	J	0.64	2.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,2-Dichloroethane-d4 (Surr)	103		70 - 122	
Toluene-d8 (Surr)	102		69 - 125	
Bromofluorobenzene	99		69 - 135	

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-04V08N

Lab Sample ID: 460-14649-4

Date Sampled: 06/24/2010 1545

Client Matrix: Water

Date Received: 06/24/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch:	460-42326	Instrument ID:	VOAMS13
Preparation:	5030B			Lab File ID:	p38066.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/08/2010 0739			Final Weight/Volume:	5 mL
Date Prepared:	07/08/2010 0739				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Freon TF	1.0	U	0.28	1.0
Chlorotrifluoroethene	12		0.55	1.0
1,2-Dichloro-1,1,2-trifluoroethane	1.0	U	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 122
Toluene-d8 (Surr)	97		69 - 125
Bromofluorobenzene	94		69 - 135

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-02V08N

Lab Sample ID: 460-14649-5

Date Sampled: 06/24/2010 1647

Client Matrix: Water

Date Received: 06/24/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 460-42326

Instrument ID: VOAMS13

Preparation: 5030B

Lab File ID: p38070.d

Dilution: 5.0

Initial Weight/Volume: 5 mL

Date Analyzed: 07/08/2010 0915

Final Weight/Volume: 5 mL

Date Prepared: 07/08/2010 0915

Analyte	Result (ug/L)	Qualifier	MDL	RL
Freon TF	670		1.4	5.0
Chlorotrifluoroethene	240		2.8	5.0
1,2-Dichloro-1,1,2-trifluoroethane	37		1.6	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 122
Toluene-d8 (Surr)	96		69 - 125
Bromofluorobenzene	94		69 - 135

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: 20100624MW-06V13N

Lab Sample ID: 460-14649-6

Date Sampled: 06/24/2010 1750

Client Matrix: Water

Date Received: 06/24/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch:	460-42290	Instrument ID:	VOAMS13
Preparation:	5030B			Lab File ID:	p38077.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Date Analyzed:	07/08/2010 1210			Final Weight/Volume:	5 mL
Date Prepared:	07/08/2010 1210				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Freon TF	1.0	U	0.28	1.0
Chlorotrifluoroethene	68	J	0.55	1.0
1,2-Dichloro-1,1,2-trifluoroethane	0.57	J J	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 122
Toluene-d8 (Surr)	95		69 - 125
Bromofluorobenzene	92		69 - 135

4/4/10
✓

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

Client Sample ID: TB062410

Lab Sample ID: 460-14649-7TB

Client Matrix: Water

Date Sampled: 06/24/2010 0000

Date Received: 06/24/2010 1800

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 460-42326	Instrument ID:	VOAMS13
Preparation:	5030B		Lab File ID:	p38059.d
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/08/2010 0450		Final Weight/Volume:	5 mL
Date Prepared:	07/08/2010 0450			

Analyte	Result (ug/L)	Qualifier	MDL	RL
Freon TF	1.0	U	0.28	1.0
Chlorotrifluoroethene	1.0	U	0.55	1.0
1,2-Dichloro-1,1,2-trifluoroethane	1.0	U	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 122
Toluene-d8 (Surr)	108		69 - 125
Bromofluorobenzene	105		69 - 135

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

General Chemistry

Client Sample ID: 20100624MW-03V09N

Lab Sample ID: 460-14649-1

Date Sampled: 06/24/2010 1340

Client Matrix: Water

Date Received: 06/24/2010 1800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	15.8		mg/L	0.32	5.0	1.0	D516-90, 02

Analysis Batch: 460-42417

Date Analyzed: 07/09/2010 1039

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

General Chemistry

Client Sample ID: 20100624MW-07RV15N

Lab Sample ID: 460-14649-2

Date Sampled: 06/24/2010 1450

Client Matrix: Water

Date Received: 06/24/2010 1800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	11.2		mg/L	0.32	5.0	1.0	D516-90, 02

Analysis Batch: 460-42417

Date Analyzed: 07/09/2010 1040

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

General Chemistry

Client Sample ID: 20100624MW-07RV15FD

Lab Sample ID: 460-14649-3

Client Matrix: Water

Date Sampled: 06/24/2010 1450

Date Received: 06/24/2010 1800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	17.0		mg/L	0.32	5.0	1.0	D516-90, 02

Analysis Batch: 460-42417

Date Analyzed: 07/09/2010 1044

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

General Chemistry

Client Sample ID: 20100624MW-04V08N

Lab Sample ID: 460-14649-4

Date Sampled: 06/24/2010 1545

Client Matrix: Water

Date Received: 06/24/2010 1800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	18.4		mg/L	0.32	5.0	1.0	D516-90, 02

Analysis Batch: 460-42417

Date Analyzed: 07/09/2010 1044

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

General Chemistry

Client Sample ID: 20100624MW-02V08N

Lab Sample ID: 460-14649-5

Date Sampled: 06/24/2010 1647

Client Matrix: Water

Date Received: 06/24/2010 1800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	38.9		mg/L	0.32	5.0	1.0	D516-90, 02

Analysis Batch: 460-42417

Date Analyzed: 07/09/2010 1044

Analytical Data

Client: URS Corporation

Job Number: 460-14649-1

General Chemistry

Client Sample ID: 20100624MW-06V13N

Lab Sample ID: 460-14649-6

Date Sampled: 06/24/2010 1750

Client Matrix: Water

Date Received: 06/24/2010 1800

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	52.3		mg/L	0.63	10.0	2.0	D516-90, 02

Analysis Batch: 460-42417

Date Analyzed: 07/09/2010 1114

ATTACHMENT B

SUPPORT DOCUMENTATION

CASE NARRATIVE

Client: URS Corporation

Project: Rohm and Haas - Former EMCA Site

Report Number: 460-14649-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 06/24/2010. The samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.5 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DISSOLVED HYDROCARBON GASES

Samples 460-14649-1 through 460-14649-7 were analyzed for dissolved hydrocarbon gases in accordance with EPA Method 3810M (Methane, Ethane, Ethene, Propane). The samples were analyzed on 06/30/2010.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Methane were outside control limits in batch 41542. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Refer to the QC report for details.

The following samples were diluted due to the abundance of target analytes: 20100624MW-02V08N (460-14649-5), 20100624MW-03V09N (460-14649-1), 20100624MW-04V08N (460-14649-4), 20100624MW-06V13N (460-14649-6), 20100624MW-07RV15FD (460-14649-3), 20100624MW-07RV15N (460-14649-2). Elevated reporting limits (RLs) are provided. No other difficulties were encountered during the dissolved hydrocarbon gases analyses.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 460-14649-1 through 460-14649-7 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/08/2010.

Samples 460-14649-3(2X) and 460-14649-5(5X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

SULFATE

Samples 460-14649-1 through 460-14649-6 were analyzed for sulfate in accordance with ASTM Method D516-90. The samples were analyzed on 07/09/2010.

Sample 460-14649-6(2X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the sulfate analyses.

All quality control parameters were within the acceptance limits.

60L

CHAIN OF CUSTODY RECORD

PROJECT NO. 11176110.00001
 SITE NAME Farmer EMCA Site
 SAMPLERS (PRINT/SIGNATURE) Tim Izkovich

DELIVERY SERVICE: FedEx
 AIRBILL NO.: 8645 1113 8550

LOCATION IDENTIFIER DATE TIME COMP/GRAB SAMPLE ID MATRIX

MW-03	6/24/10	1340	G	20100624 MW-03V09W	WG	7
MW-03	6/24/10	1340	G	20100624 MW-03V09W	WG	7
MW-03	6/24/10	1340	G	20100624 MW-03V09W	WG	7
MW-03	6/24/10	1450	G	20100624 MW-03V09W	WG	7
MW-03	6/24/10	1450	G	20100624 MW-03V09W	WG	7
MW-03	6/24/10	1545	G	20100624 MW-03V09W	WG	7
MW-03	6/24/10	1647	G	20100624 MW-03V09W	WG	7
MW-03	6/24/10	1750	G	20100624 MW-03V09W	WG	7
Trip Blank	---	---	---	TB062410	WG	4

AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WG - DRILLING WATER	WQ - WATER FIELD QC	
TBA - TRIP BLANK	RB - RINSE BLANK	NR - NORMAL ENVIRONMENTAL SAMPLE			
SD - MATRIX SPIKE DUPLICATE	FR - FIELD REPLICATE	MR - MATRIX SPIKE			

MATRIX CODES	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
SAMPLE TYPE CODES	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WG - DRILLING WATER	WQ - WATER FIELD QC	
	TBA - TRIP BLANK	RB - RINSE BLANK	NR - NORMAL ENVIRONMENTAL SAMPLE			
	SD - MATRIX SPIKE DUPLICATE	FR - FIELD REPLICATE	MR - MATRIX SPIKE			

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tim Izkovich	6/24/10	1800	Jack		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Tim Izkovich	6/24/10	1800	Jack		

Distribution: Original accompanies shipment, copy to coordinator field files

TESTS

Mebrane (8260 B)
 (RSK-175)
 Sulfate (375-4)

BOTTLE TYPE AND PRESERVATIVE

40 mL Vial (HCl)
 40 mL Vial (HCl)
 1500 mL Poly

REMARKS
 14049
 14049-1
 1-2
 2-3
 2-4
 3-5
 4-6
 5-7
 6-8
 7-9

SAMPLE TYPE	DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. (RPLS ONLY)
N1			
MS			
SO			
N1			
FO			
N1			
N1			
N1			
N1			



LAB Test America - Edison
 COOLER 1 of 1
 PAGE 1 of 1

SPECIAL INSTRUCTIONS

For questions contact
 Peter Fairbanks @
 716-856-5636

3.5 #40

Login Sample Receipt Check List

Client: URS Corporation

Job Number: 460-14649-1

Login Number: 14649

List Source: TestAmerica Edison

Creator: Meyers, Gary

List Number: 1

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	616630
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5 °C IR#40
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	


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[Ship](#) • [Track](#) • [Manage](#) • [Business Solutions](#) •

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[Printer-Friendly](#)[Get Link](#)[Help](#)

Enter tracking number

Detailed Results	Notifications																																
Tracking no.: 864511938550 Select time format: 12H 24H E-mail notifications																																	
Delivered Delivered Signed for by: GARY																																	
<table border="0"> <tr> <td> Shipment Dates Ship date: Jun 24, 2010 Delivery date: Jun 25, 2010 10:16 AM </td> <td> Destination EDISON, NJ Signature Proof of Delivery </td> </tr> </table>		Shipment Dates Ship date: Jun 24, 2010 Delivery date: Jun 25, 2010 10:16 AM	Destination EDISON, NJ Signature Proof of Delivery																														
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Shipment Facts Help																																	
<table border="0"> <tr> <td>Service type</td> <td>Priority Overnight</td> <td>Delivered to</td> <td>Receptionist/Front Desk</td> </tr> </table>		Service type	Priority Overnight	Delivered to	Receptionist/Front Desk																												
Service type	Priority Overnight	Delivered to	Receptionist/Front Desk																														
Shipment Travel History Help																																	
Select time zone: Local Scan Time All shipment travel activity is displayed in local time for the location																																	
<table border="1"> <thead> <tr> <th>Date/Time</th> <th>Activity</th> <th>Location</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>Jun 25, 2010 10:16 AM</td> <td>Delivered</td> <td>EDISON, NJ</td> <td></td> </tr> <tr> <td>Jun 25, 2010 8:34 AM</td> <td>On FedEx vehicle for delivery</td> <td>EDISON, NJ</td> <td></td> </tr> <tr> <td>Jun 25, 2010 7:01 AM</td> <td>At local FedEx facility</td> <td>EDISON, NJ</td> <td></td> </tr> <tr> <td>Jun 25, 2010 3:58 AM</td> <td>Departed FedEx location</td> <td>NEWARK, NJ</td> <td></td> </tr> <tr> <td>Jun 25, 2010 1:14 AM</td> <td>Arrived at FedEx location</td> <td>NEWARK, NJ</td> <td></td> </tr> <tr> <td>Jun 24, 2010 8:45 PM</td> <td>Left FedEx origin facility</td> <td>STAMFORD, CT</td> <td></td> </tr> <tr> <td>Jun 24, 2010 6:52 PM</td> <td>Picked up</td> <td>STAMFORD, CT</td> <td></td> </tr> </tbody> </table>		Date/Time	Activity	Location	Details	Jun 25, 2010 10:16 AM	Delivered	EDISON, NJ		Jun 25, 2010 8:34 AM	On FedEx vehicle for delivery	EDISON, NJ		Jun 25, 2010 7:01 AM	At local FedEx facility	EDISON, NJ		Jun 25, 2010 3:58 AM	Departed FedEx location	NEWARK, NJ		Jun 25, 2010 1:14 AM	Arrived at FedEx location	NEWARK, NJ		Jun 24, 2010 8:45 PM	Left FedEx origin facility	STAMFORD, CT		Jun 24, 2010 6:52 PM	Picked up	STAMFORD, CT	
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Jun 24, 2010 6:52 PM	Picked up	STAMFORD, CT																															
FedEx Desktop: Tracking at your fingertips. Learn more Sign up for FedEx® Billing Online Plus to save paper, save time and enter for a chance to win. Learn more																																	

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FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison

Job No.: 460-14649-1

SDG No.:

Lab File ID: p38071.d

BFB Injection Date: 07/08/2010

Instrument ID: VOAMS13

BFB Injection Time: 09:35

Analysis Batch No.: 42290

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	25.9
75	30.0 - 60.0 % of mass 95	54.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.4
173	Less than 2.0 % of mass 174	0.6 (0.9)1
174	50.0 - 120.00 % of mass 95	74.4
175	5.0 - 9.0 % of mass 174	5.8 (7.8)1
176	95.0 - 101.0 % of mass 174	71.2 (95.6)1
177	5.0 - 9.0 % of mass 176	5.3 (7.4)2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-42290/2	p38073.d	07/08/2010	10:21
	MB 460-42290/3	p38076.d	07/08/2010	11:38
20100624MW-06V13N	460-14649-6	p38077.d	07/08/2010	12:10
20100624MW-07RV15FD	460-14649-3	p38078.d	07/08/2010	12:34
	LCS 460-42290/8	p38081.d	07/08/2010	13:46

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison

Job No.: 460-14649-1

SDG No.:

Lab Sample ID: CCVIS 460-42290/2

Calibration Date: 07/08/2010 10:21

Instrument ID: VOAMS13

Calib Start Date: 07/07/2010 23:36

GC Column: DB-624

ID: 0.18(mm)

Calib End Date: 07/08/2010 02:49

Lab File ID: p38073.d

Conc. Units: ug/L

Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0723	0.0400		11.1	20.0	-44.6	50.0
Dichlorodifluoromethane	Ave	0.2517	0.2067		16.4	20.0	-17.9	50.0
Chloromethane	Ave	0.3670	0.2907	0.1000	15.8	20.0	-20.8	50.0
Vinyl chloride	Ave	0.3044	0.2604		17.1	20.0	-14.5	20.0
Bromomethane	QuaF	0.1767	0.1056		14.6	20.0	-27.0	50.0
Chloroethane	Ave	0.1978	0.1730		17.5	20.0	-12.5	50.0
n-Pentane	Ave	0.0403	0.0390		19.3	20.0	-3.3	50.0
Trichlorofluoromethane	Ave	0.3499	0.2914		16.7	20.0	-16.7	50.0
Isopropene	Ave	0.3372	0.3606		21.4	20.0	6.9	50.0
Ethyl ether	Ave	0.2219	0.2820		25.4	20.0	27.1	50.0
1,1-Dichloroethene	Ave	0.1623	0.1511		18.6	20.0	-6.9	20.0
1,2-Dichloro-1,1,2-trifluoroethane	Ave	0.2636	0.1986		15.1	20.0	-24.7	50.0
Carbon disulfide	Ave	0.7047	0.7625		21.6	20.0	8.2	50.0
Ethanol	QuaF	0.0014	0.0015		3440	3000	14.8	50.0
Freon RF	Ave	0.1825	0.1849		20.3	20.0	1.3	50.0
Acrolein	Ave	0.0458	0.0534		46.6	40.0	16.6	99.0
Isopropanol	Ave	0.0161	0.0186		3460	3000	15.3	50.0
Methylene Chloride	Ave	0.2313	0.2296		19.9	20.0	-0.7	50.0
Acetone	Ave	0.0246	0.0368		29.9	20.0	49.7	50.0
trans-1,2-Dichloroethene	Ave	0.2048	0.1914		18.7	20.0	-6.5	50.0
Methyl acetate	Ave	0.0493	0.0660		26.8	20.0	33.8	50.0
Hexane	Ave	0.2102	0.2138		20.3	20.0	1.7	50.0
MTBE	Ave	0.7140	0.8907		24.9	20.0	24.7	50.0
TBA	Ave	0.0207	0.0290		562	400	40.5	50.0
Acetonitrile	Ave	0.0081	0.0104		519	400	29.7	50.0
DIPE	Ave	1.089	1.316		24.2	20.0	20.8	50.0
1,1-Dichloroethane	Ave	0.4612	0.4572	0.1000	19.8	20.0	-0.9	50.0
Acrylonitrile	Ave	0.1037	0.1182		22.8	20.0	14.1	50.0
Tert-butyl ethyl ether	Ave	0.8390	1.018	0.0100	24.3	20.0	21.4	50.0
Vinyl acetate	Ave	0.5190	0.6981		26.9	20.0	34.5	50.0
cis-1,2-Dichloroethene	Ave	0.2231	0.2169		19.4	20.0	-2.8	50.0
2,2-Dichloropropane	Ave	0.3567	0.3471		19.5	20.0	-2.7	50.0
Cyclohexane	LinF	0.4393	0.4227		18.5	20.0	-7.6	50.0
Bromochloromethane	Ave	0.1035	0.1088		21.0	20.0	5.1	50.0
Chloroform	Ave	0.4075	0.4080		20.0	20.0	0.1	20.0
Carbon tetrachloride	Ave	0.2755	0.2571		18.7	20.0	-6.7	50.0
Ethyl acetate	Ave	0.0261	0.0324		49.7	40.0	24.2	50.0
Tetrahydrofuran	LinF	0.1635	0.1925		28.6	20.0	42.8	50.0
1,1,1-Trichloroethane	Ave	0.3380	0.3210		19.0	20.0	-5.0	50.0
1,1-Dichloropropene	Ave	0.3284	0.3043		18.5	20.0	-7.3	50.0