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Corporate Office:

121 S. Jackson St., Moscow, Idaho 83843
Ph: (208) 882-7858; Fax: (208) 883-3785

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TECHNICAL MEMORANDUM

To: Don Carpenter, IDEQ, Boise

From: Robin Nimmer, TerraGraphics, Moscow

Date: April 22, 2014

Project Code: 13011-08-02

Subject: First Quarter 2014 Groundwater Monitoring at the East Mission Flats Repository

The purpose of this memorandum is to summarize the East Mission Flats Repository (EMFR) First Quarter 2014 Groundwater Sampling Event and present the data collected. An evaluation and discussion of the quarterly monitoring results will be completed in the 2014 annual report for EMFR.

1 Sampling Summary

Figure 1 shows the locations of the one decontamination well, seven groundwater monitoring wells, two piezometers, and two surface water level loggers in the vicinity of EMFR. Samples were collected from seven of the eight wells on January 15, 2014; the Decon Well was not sampled because it was decommissioned for the winter.

A detailed description of the field sampling, handling, documentation, and analytical procedures is provided in the *Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP) for Groundwater and Surface Water Monitoring at the East Mission Flats Repository* (TerraGraphics 2010), hereinafter referred to as the EMFR SAP/QAPP. All field and analytical procedures were conducted according to the EMFR SAP/QAPP.

Attachment A contains the field sheets with measured parameters and depth-to-water measurements.

2 Groundwater Monitoring Results

Figure 2 depicts approximate groundwater elevation contours based on the January 2014 measurements in the groundwater monitoring wells, except for 09-EMF-MW-C Deep, 08-EMF-MW-E, and the Decon Well. These wells were omitted because 09-EMF-MW-C Deep is screened deeper than the other monitoring wells, 08-EMF-MW-E appears to be in a different

hydrologic unit from the other wells based on water levels and water quality data, and water levels are not measured at the Decon Well because of the dedicated production pump and cap configuration. The historical hydraulic gradient at the site is towards the southwest. Available data from the monitoring network indicate the hydraulic gradient for this sampling event is generally towards the southwest and some flow towards the west northwest in the southern area.

Table 1 and Figure 3 display the cumulative field parameter data for the groundwater sites. Table 2 and Figure 4 display the cumulative groundwater sample results for dissolved metals¹. The First Quarter 2014 sampling event parameter and dissolved metal data are highlighted in green in each table. Compared to past dissolved cadmium concentrations, an elevated result at 08-EMF-MW-F was observed, but remains below the regulatory threshold. Dissolved cadmium will continue to be monitored and will be further evaluated in the 2014 annual report.

The regulatory thresholds for the metals analyzed are based on total concentrations; however, the dissolved metal concentrations in the groundwater are compared to the regulatory thresholds for this project because it is assumed that dissolved concentrations are indicators of contamination in groundwater under all conditions (CH2M Hill 2006). Dissolved metals results exceeding the respective regulatory threshold are highlighted in pink in Table 2. No concentrations exceeded the regulatory thresholds in the First Quarter 2014.

Attachment B contains the U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) analytical results (dissolved cations, total and dissolved metals, total hardness, and total phosphorus). Attachment C contains the SVL analytical results (dissolved anions and total alkalinity).

The 2014 First Quarter Sampling Event data were considered acceptable and no laboratory or field data were rejected. The following laboratory results were qualified as estimates (*J*) as discussed in the data quality review (TerraGraphics 2014).

- All dissolved and total zinc results due to low matrix spike recoveries.
- Detected concentrations of total zinc at 07-EMF-MW-B, 07-EMF-MW-D, and 08-EMF-MW-E because they were less than 10 times the field blank concentrations.
- All total phosphorus results due to laboratory serial dilution.

Any qualified data should be reviewed by an experienced data analyst before analysis and interpretation.

3 Water Levels and Hydrographs

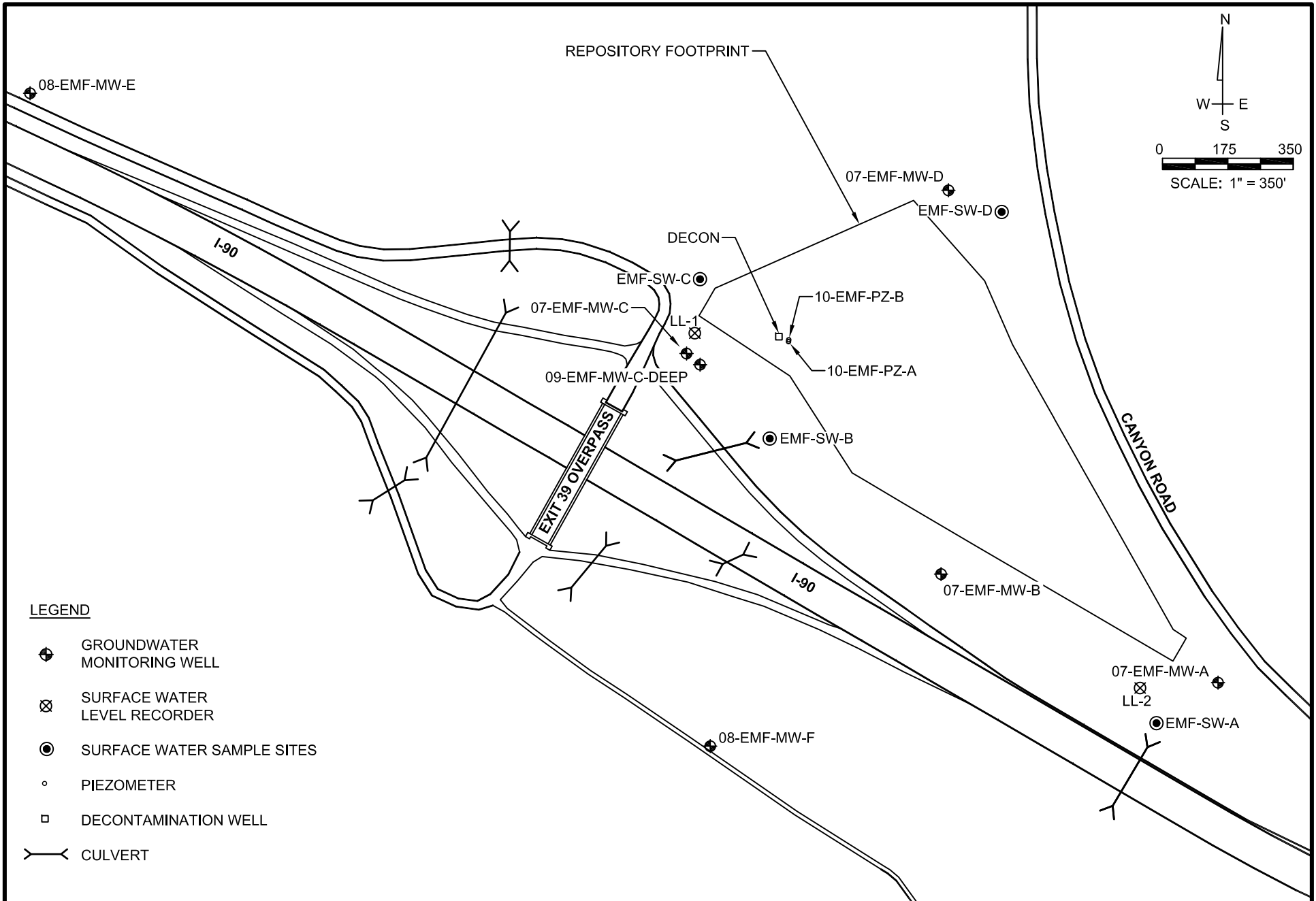
Figure 5 shows hydrographs of the water levels recorded at five monitoring wells in the immediate vicinity of the repository (not including the Decon Well, 08-EMF-MW-E, or 08-EMF-MW-F) and data from the U.S. Geological Survey (USGS) Gage Station 12413500 on the Coeur d'Alene River near Cataldo, Idaho (USGS 2014).

¹ Beginning in 2014, all results and their associated qualifiers will be displayed in Table 2 (as opposed to past methods of not displaying results below reporting limits). Additionally, Figure 4 will display non-detected results using the detection limits (as opposed to past methods of displaying half the detection limits).

There was no standing water at LL-1 or LL-2 (Figure 1) during the 2014 first quarter monitoring period. Both piezometers, 10-EMF-PZ-A and 10-EMF-PZ-B, were also dry during this sampling event.

4 References

- CH2M Hill, 2006. Environmental Monitoring Plan, Operable Unit 2, Bunker Hill Mining and Metallurgical Complex Superfund Site. Prepared for USEPA Region 10. January.
- TerraGraphics Environmental Engineering, Inc. (TerraGraphics), 2010. Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP) for Groundwater and Surface Water Monitoring at the East Mission Flats Repository; Revision No. 1. October.
- TerraGraphics, 2014. QA/QC Review of the First Quarter 2014 Groundwater Monitoring at East Mission Flats Repository. Memorandum. April 2014.
- USGS, 2014. 12413500 Coeur d'Alene River NR Cataldo ID, http://waterdata.usgs.gov/id/nwis/uv/?site_no=12413500. January 2014.



LEGEND

- ◆ GROUNDWATER MONITORING WELL
- ⊗ SURFACE WATER LEVEL RECORDER
- SURFACE WATER SAMPLE SITES
- PIEZOMETER
- DECONTAMINATION WELL
- > CULVERT

SCALE:
1" = 350' (8.5x11 PRINT)

DRAWN BY:
D.PFEIFER

ENGINEER:
D.FORSETH



TerraGraphics
Environmental Engineering, Inc.

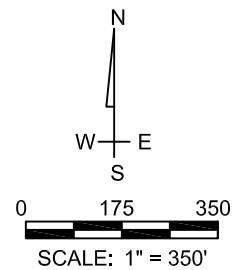
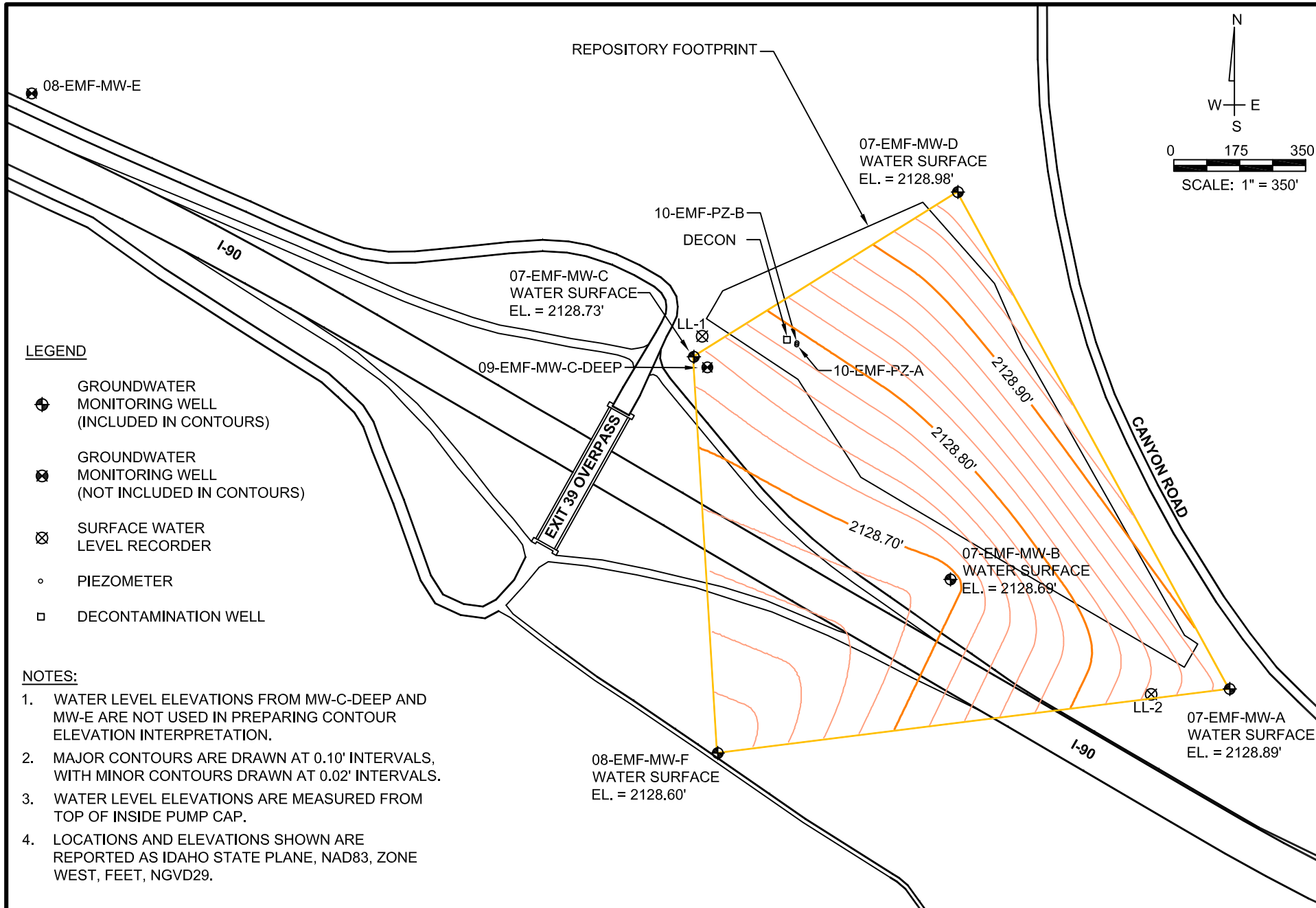
EAST MISSION FLATS
REPOSITORY
CATALDO, IDAHO

FIGURE 1
REPOSITORY MONITORING
LOCATIONS

PROJECT NO:
13011-08-02

DATE:
4/7/2014

COORDINATE SYSTEM:
NAD83 ISP, West, US FT, NGVD29



SCALE:	1" = 350' (8.5x11 PRINT)
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ENGINEER:	D.F.



EAST MISSION FLATS
CATALDO, IDAHO

FIGURE 2
JANUARY 2014 GROUNDWATER LEVEL
ELEVATIONS AND CONTOURS

PROJECT NO:	13011-08-02
DATE:	4/4/2014
FILE NAME:	EMF GW MAP JAN2014_GIS_4414.DWG

Figure 3. Field Parameter Data at EMFR Groundwater Sites

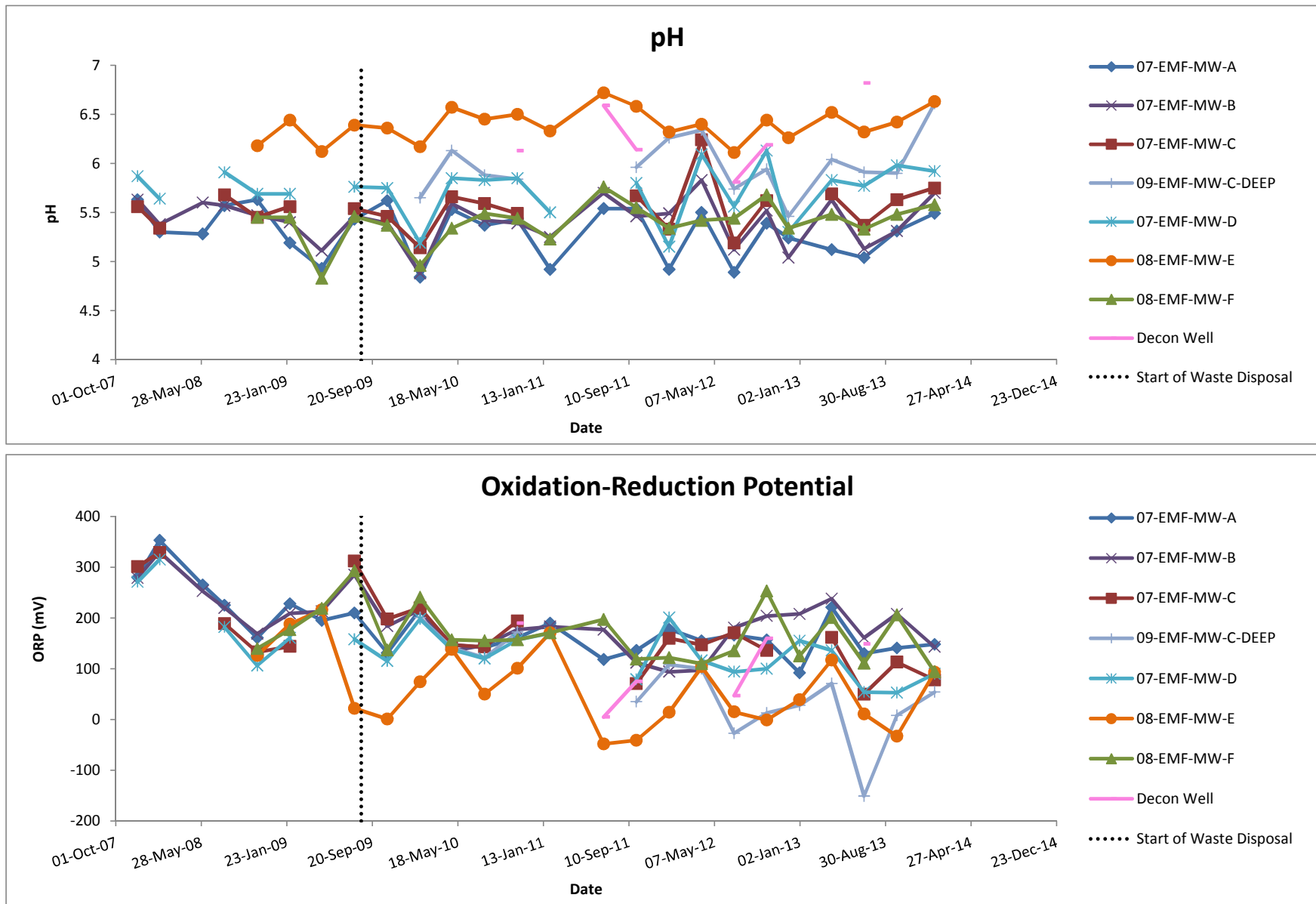


Figure 3. Field Parameter Data at EMFR Groundwater Sites

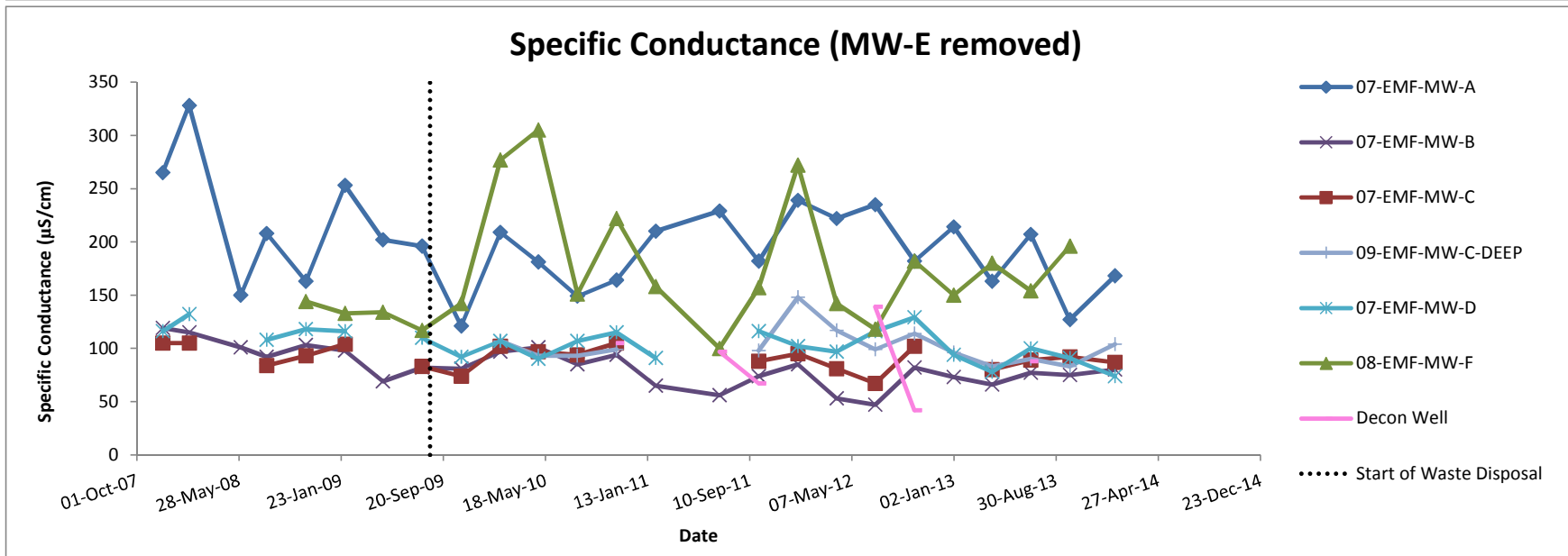
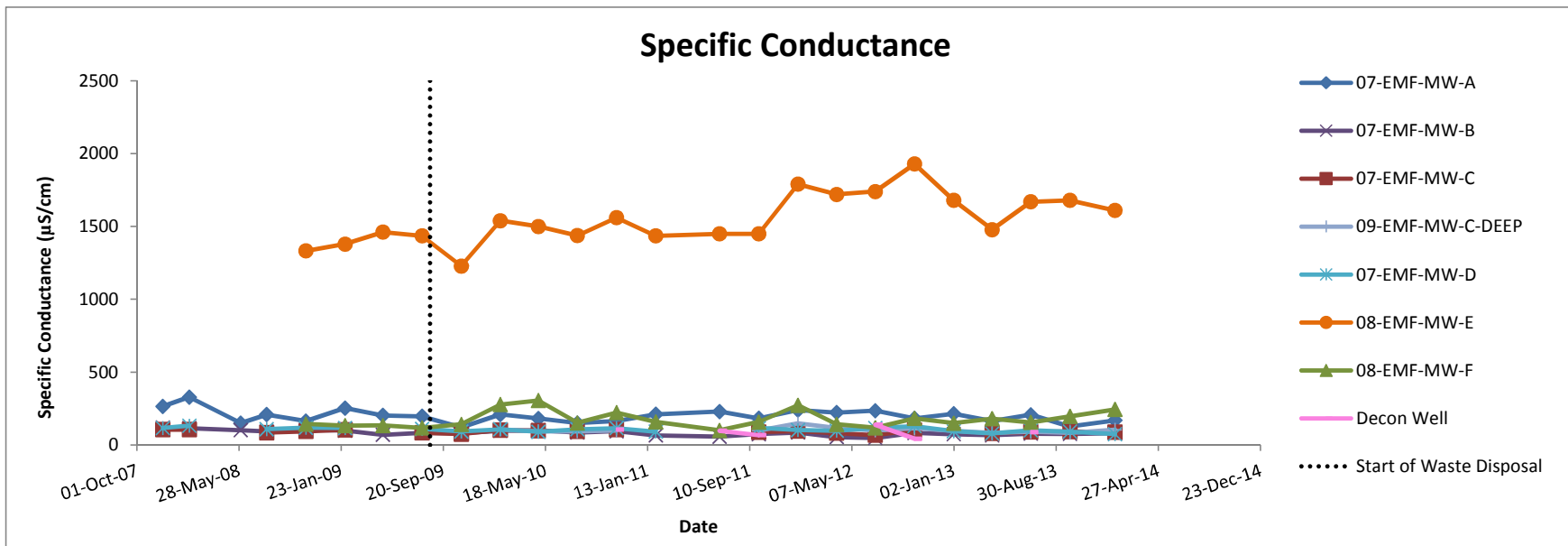


Figure 3. Field Parameter Data at EMFR Groundwater Sites

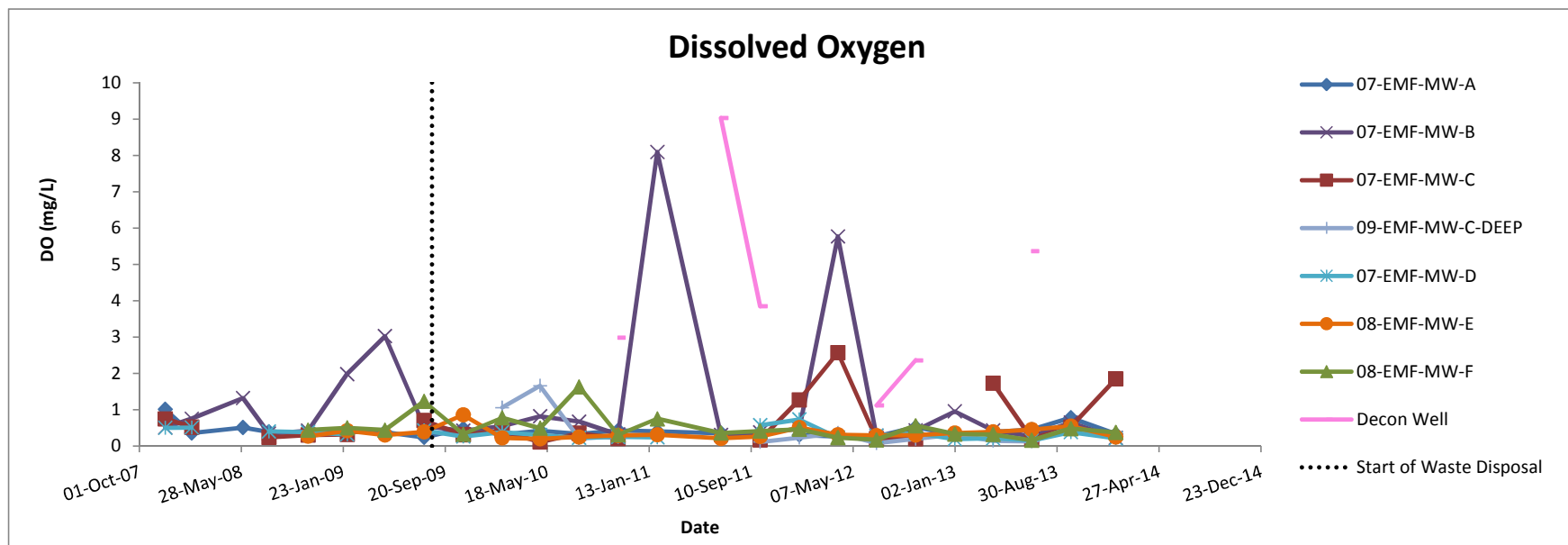
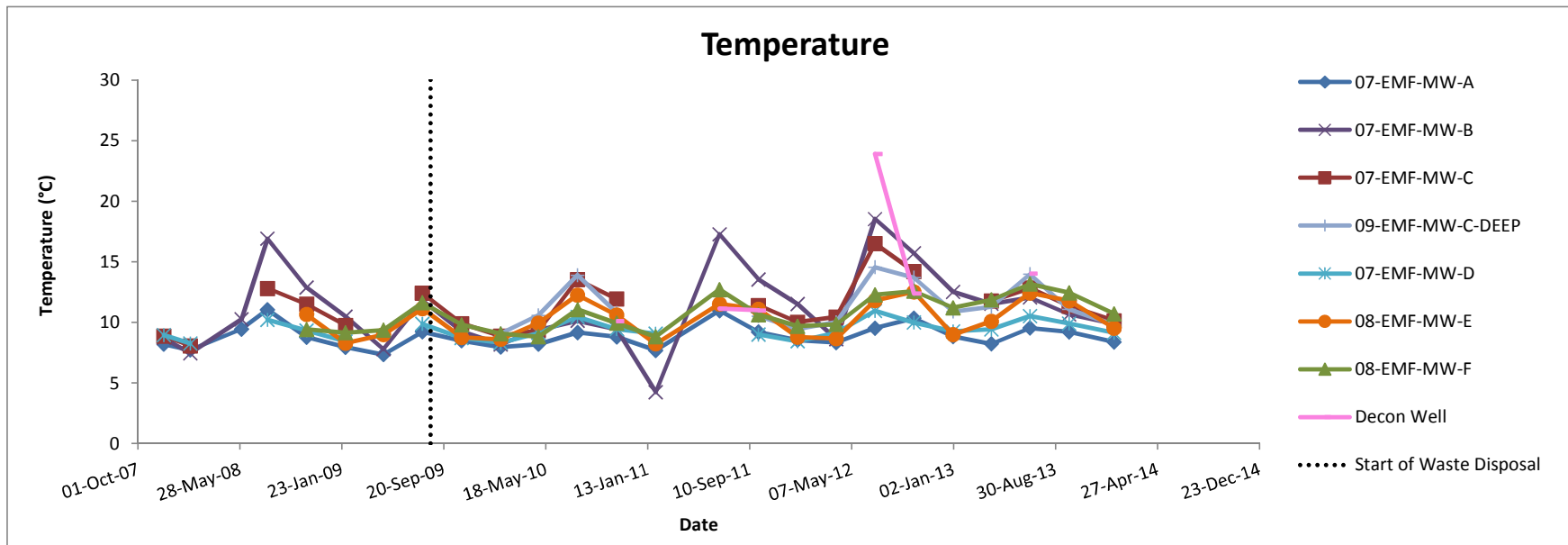


Figure 4. Dissolved Metals Data at EMFR Groundwater Sites

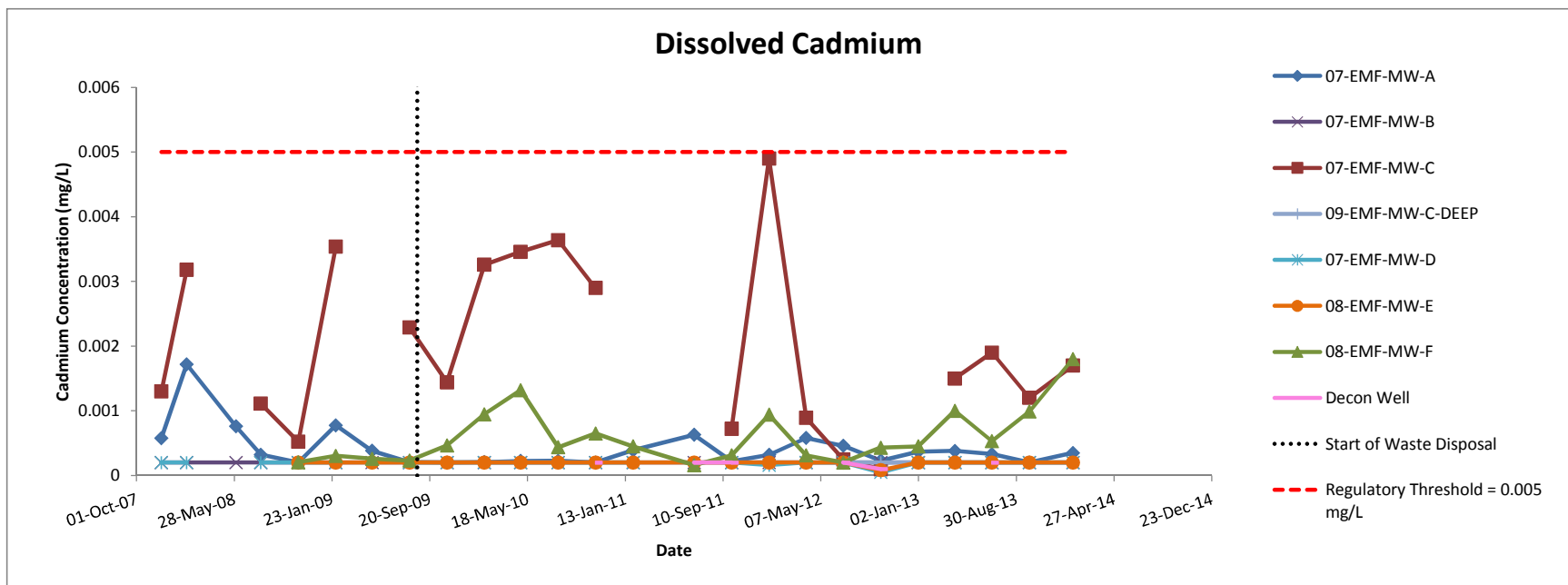
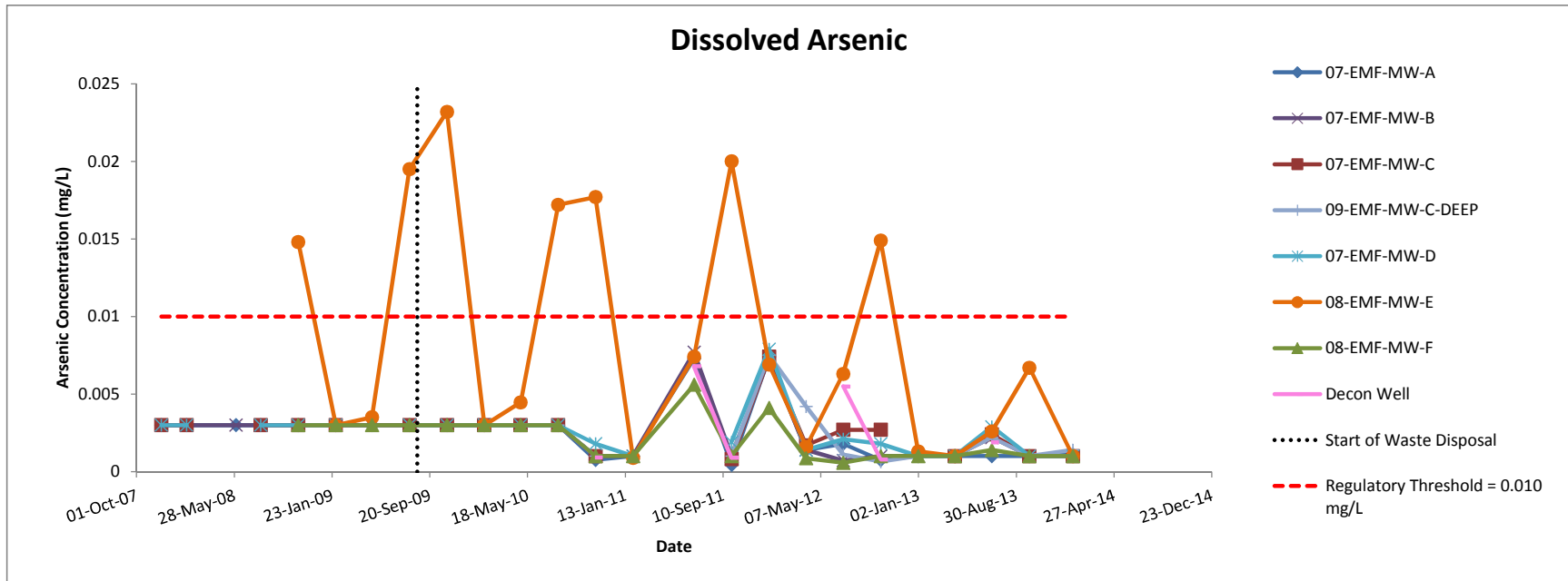
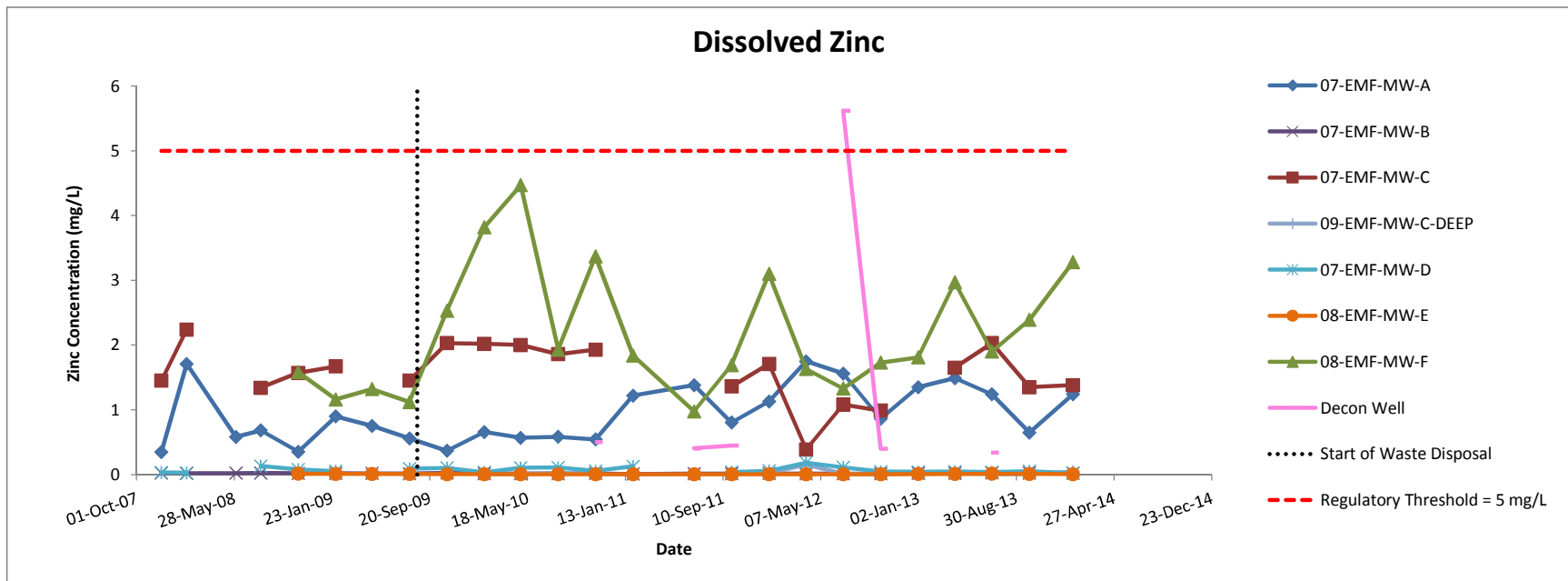
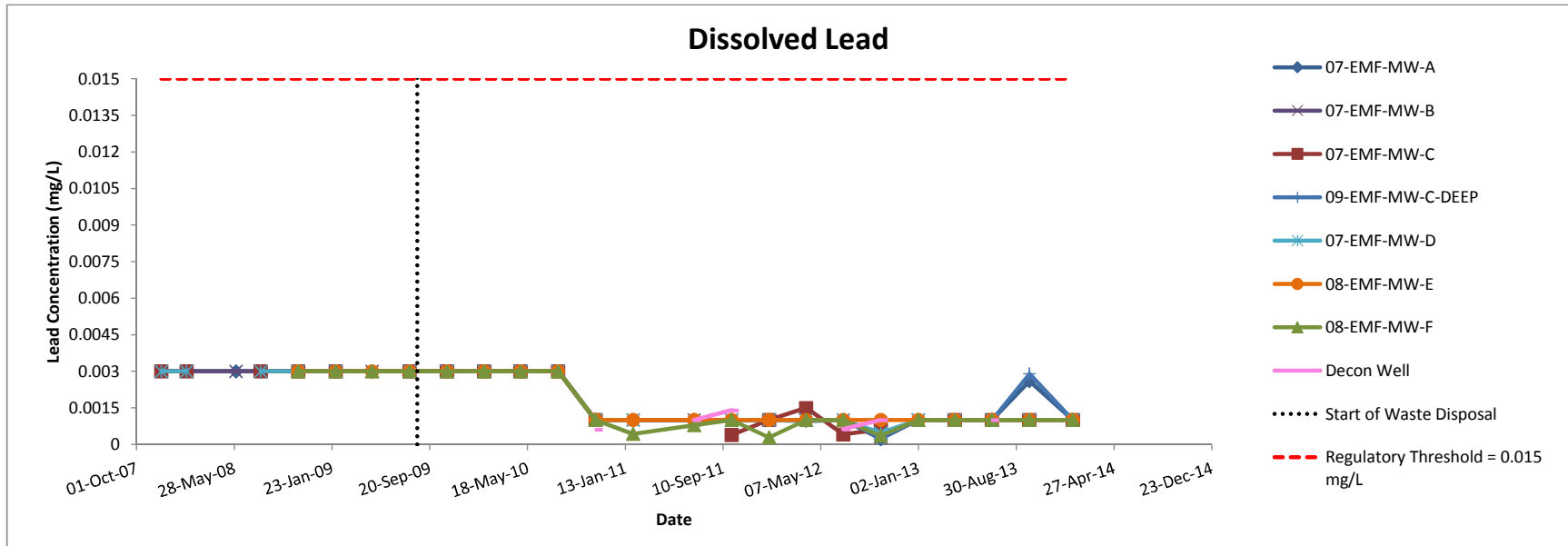
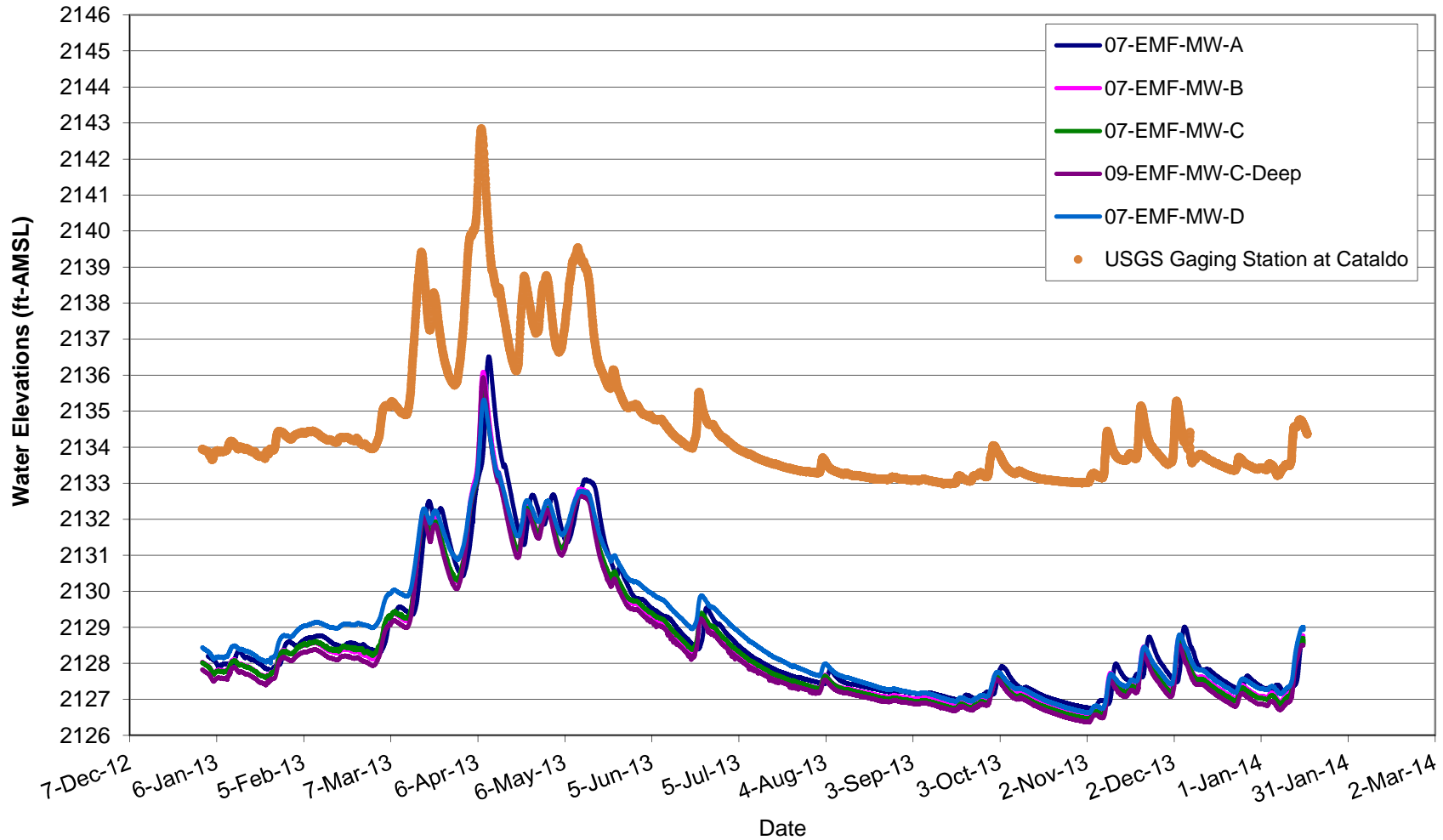


Figure 4. Dissolved Metals Data at EMFR Groundwater Sites



*Dissolved antimony not shown as it has never been detected at EMFR.

Figure 5. Water Levels at EMFR Monitoring Wells Compared to River Stage at Cataldo



Notes:

- There was no surface water detected at LL-1 and LL-2 during this date range.
- All elevations are based on the NGVD29 datum

**Table 1
Field Parameter Data
East Mission Flats Repository**

Well	Parameter						
	Date	pH	Specific Conductance (uS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	
07-EMF-MW-A	11-Dec-07	5.63	265	8.21	1.01	280	
	25-Feb-08	5.30	328	7.73	0.36	353	
	3-Jun-08	5.28	150	9.45	0.51	265	
	19-Aug-08	5.57	208	11.05	0.39	225	
	10-Nov-08	5.63	163	8.79	0.34	161	
	4-Feb-09	5.19	253	7.95	0.39	228	
	7-May-09	4.93	202	7.35	0.38	195	
	10-Aug-09	5.43	196	9.23	0.24	210	
	11-Nov-09	5.62	121	8.49	0.48	131	
	25-Feb-10	4.84	209	7.97	0.32	216	
	19-May-10	5.53	181	8.21	0.42	147	
	25-Aug-10	5.37	149	9.17	0.33	142	
	16-Nov-10	5.43	164	8.81	0.43	161	
	10-Feb-11	4.92	210	7.69	0.40	190	
	6-Jul-11	5.54	229	10.98	0.35	118	
	24-Oct-11	5.54	182	9.21	R	136	
	25-Jan-12	4.92	239	8.54	0.30	178	
	10-Apr-12	5.50	222	8.34	0.26	155	
	31-Jul-12	4.89	235	9.53	0.26	166	
	29-Oct-12	5.39	182	10.35	0.52	157	
	23-Jan-13	5.24	214	8.84	0.30	92	
	2-Apr-13	5.12	163	8.23	0.39	221	
	23-Jul-13	5.04	207	9.54	0.45	130	
	17-Oct-13	5.31	127	9.22	0.78	141	
		15-Jan-14	5.49	168	8.39	0.33	148
	07-EMF-MW-B	10-Dec-07	5.63	119	8.71	0.51	279
25-Feb-08		5.38	115	7.46	0.75	330	
3-Jun-08		5.60	101	10.26	1.32	253	
19-Aug-08		5.57	92	16.92	0.34	220	
10-Nov-08		5.47	103	12.88	0.42	169	
4-Feb-09		5.40	98	10.48	1.98	209	
7-May-09		5.11	69	7.8	3.02	213	
10-Aug-09		5.46	82	11.81	0.55	285	
11-Nov-09		5.39	81	9.24	0.42	184	
25-Feb-10		4.88	97	8.2	0.55	216	
19-May-10		5.59	101	9.37	0.82	135	
25-Aug-10		5.42	85	10.13	0.67	146	
16-Nov-10		5.39	94	9.44	0.32	177	
10-Feb-11		5.25	65	4.24	8.09	183	
6-Jul-11		5.70	56	17.28	0.30	177	
24-Oct-11		5.46	74	13.55	0.37 J	112	
25-Jan-12		5.49	85	11.53	0.47	94	
10-Apr-12		5.83	53	8.61	5.77	97	
31-Jul-12		5.12	47	18.55	0.28	181	
29-Oct-12		5.52	82	15.71	0.43	204	
24-Jan-13		5.04	73	12.53	0.95	208	
2-Apr-13		5.63	66	11.54	0.43	238	
23-Jul-13		5.13	77	12.06	0.27	161	
17-Oct-13		5.31	75	10.67	0.64	208	
		15-Jan-14	5.70	80	9.88	0.22	143

Well	Parameter					
	Date	pH	Specific Conductance (uS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)
07-EMF-MW-C	10-Dec-07	5.56	105	8.89	0.75	301
	25-Feb-08	5.34	105	8.07	0.52	329
	3-Jun-08	NS	NS	NS	NS	NS
	19-Aug-08	5.68	84	12.81	0.24	189
	10-Nov-08	5.45	93	11.51	0.3	133
	3-Feb-09	5.56	104	9.76	0.32	144
	7-May-09	NS	NS	NS	NS	NS
	10-Aug-09	5.54	83	12.42	0.7	312
	11-Nov-09	5.46	74	9.91	0.31	198
	25-Feb-10	5.14	102	8.89	0.42	220
	19-May-10	5.66	97	9.33	0.11 J	147
	25-Aug-10	5.59	94	13.54	0.35	143
	16-Nov-10	5.49	105	11.94	0.21	194
	10-Feb-11	NS	NS	NS	NS	NS
	6-Jul-11	NS	NS	NS	NS	NS
	24-Oct-11	5.67	88	11.41	0.17 J	71
	25-Jan-12	5.33	95	10.03	1.27	160
	10-Apr-12	6.24	81	10.45	2.57	147
	31-Jul-12	5.19	67	16.51	0.2	171
	29-Oct-12	5.62	102	14.22	0.20	136
	23-Jan-13	NS	NS	NS	NS	NS
	2-Apr-13	5.69	80	11.78	1.73	162
	23-Jul-13	5.37	89	12.85	0.2	50
17-Oct-13	5.63	92	11.36	0.52	113	
15-Jan-14	5.75	87	10.14	1.85	78	
09-EMF-MW-C Deep	25-Feb-10	5.65	107	9.07	1.06	201
	19-May-10	6.13	93	10.60	1.66	141
	25-Aug-10	5.88	93	13.90	0.21	122
	16-Nov-10	5.84	99	10.79	0.26	172
	10-Feb-11	NS	NS	NS	NS	NS
	6-Jul-11	NS	NS	NS	NS	NS
	24-Oct-11	5.96	98	10.52	0.11	35
	25-Jan-12	6.26	148	9.46	0.23	108
	10-Apr-12	6.34	117	10.03	0.36	100
	31-Jul-12	5.74	99	14.56	0.08	-27
	29-Oct-12	5.94	114	13.70	0.20	13
	23-Jan-13	5.46	96	10.90	0.32	28
	2-Apr-13	6.04	83	11.29	0.14	71
	23-Jul-13	5.91	90	13.99	0.13	-151
	17-Oct-13	5.9	83	11.09	0.50	8
	15-Jan-14	6.61	104	9.82	0.29	54

Well	Parameter					
	Date	pH	Specific Conductance (uS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)
07-EMF-MW-D	10-Dec-07	5.87	116	8.95	0.5	271
	25-Feb-08	5.64	132	8.26	0.51	315
	3-Jun-08	NS	NS	NS	NS	NS
	19-Aug-08	5.91	108	10.22	0.4	182
	10-Nov-08	5.69	118	9.34	0.38	106
	3-Feb-09	5.69	116	8.43	0.32	161
	7-May-09	NS	NS	NS	NS	NS
	11-Aug-09	5.76	110	9.87	0.43	158
	11-Nov-09	5.75	92	8.72	0.26	115
	25-Feb-10	5.19	107	8.32	0.38	198
	19-May-10	5.85	90	9.13	0.30	138
	25-Aug-10	5.83	107	10.46	0.22	120
	16-Nov-10	5.85	115	9.44	0.25	157
	10-Feb-11	5.50	91	9.07	0.24	170
	6-Jul-11	NS	NS	NS	NS	NS
	25-Oct-11	5.80	116	9	0.57 J	79
	26-Jan-12	5.15	102	8.44	0.73	201
	10-Apr-12	6.09	97	9.16	0.23	116
	1-Aug-12	5.56	116	10.95	0.29	94
	30-Oct-12	6.13	129	9.99	0.36	100
	24-Jan-13	5.30	94	9.27	0.19	155
	2-Apr-13	5.83	78	9.43	0.21	136
	23-Jul-13	5.77	100	10.52	0.15	54
17-Oct-13	5.98	91	9.91	0.38	53	
15-Jan-14	5.92	74	9.15	0.21	90	
08-EMF-MW-E	10-Nov-08	6.18	1,332	10.66	0.27	126
	3-Feb-09	6.44	1,379	8.29	0.42	188
	7-May-09	6.12	1,461	8.99	0.3	216
	11-Aug-09	6.39	1,435	11.14	0.39	22
	11-Nov-09	6.36	1,228	8.77	0.86	1
	25-Feb-10	6.17	1,540	8.61	0.22	74
	19-May-10	6.57	1,500	9.96	0.20	138
	25-Aug-10	6.45	1,438	12.26	0.25	50
	16-Nov-10	6.50	1,560	10.61	0.29	101
	10-Feb-11	6.33	1,436	8.23	0.31	171
	6-Jul-11	6.72	1,449	11.52	0.21	-48
	24-Oct-11	6.58	1,450	11.1	0.26	-41
	26-Jan-12	6.32	1,790	8.79	0.51	14
	11-Apr-12	6.40	1,720	8.67	0.31	104
	1-Aug-12	6.11	1,740	11.81	0.29	15
	29-Dec-12	6.44	1,930	12.53	0.30	-1
	23-Jan-13	6.26	1,680	8.99	0.36	39
	2-Apr-13	6.52	1,478	10.10	0.39	117
	23-Jul-13	6.32	1,670	12.43	0.45	11
17-Oct-13	6.42	1,680	11.79	0.55	-33	
15-Jan-14	6.63	1,610	9.53	0.25	93	

Well	Parameter						
	Date	pH	Specific Conductance (uS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	
08-EMF-MW-F	11-Nov-08	5.45	144	9.43	0.44	140	
	3-Feb-09	5.45	133	9.16	0.5	177	
	7-May-09	4.83	134	9.37	0.44	219	
	10-Aug-09	5.46	117	11.63	1.23	293	
	11-Nov-09	5.37	142	9.81	0.33	137	
	25-Feb-10	4.96	277	9.07	0.78	241	
	19-May-10	5.34	305	8.82	0.49	157	
	25-Aug-10	5.49	151	11.08	1.63	155	
	16-Nov-10	5.44	222	9.94	0.31	157	
	10-Feb-11	5.23	158	8.82	0.75	171	
	6-Jul-11	5.76	100	12.72	0.36	197	
	25-Oct-11	5.55	157	10.65	0.41 J	119	
	26-Jan-12	5.34	272	9.70	0.46	122	
	11-Apr-12	5.42	142	9.85	0.23	110	
	1-Aug-12	5.44	118	12.29	0.17	135	
	30-Oct-12	5.68	182	12.59	0.56	253	
	23-Jan-13	5.34	150	11.22	0.33	125	
	2-Apr-13	5.48	180	11.87	0.32	201	
	23-Jul-13	5.33	154	13.18	0.16	111	
	17-Oct-13	5.48	196	12.45	0.48	206	
	15-Jan-14	5.58	244	10.72	0.37	94	
Decon Well	16-Nov-10	6.13	105	10.12	2.98	190	
	10-Feb-11	NS	NS	NS	NS	NS	
	6-Jul-11	6.59	97	11.14	9.03	5	
	25-Oct-11	6.14	67	11.00	3.85	75	
	26-Jan-11	NS	NS	NS	NS	NS	
	10-Apr-12	NS	NS	NS	NS	NS	
	1-Aug-12	5.81	139	23.92	1.12	47	
	30-Oct-12	6.19	42	12.40	2.36	160	
	23-Jan-13	NS	NS	NS	NS	NS	
	2-Apr-13	NS	NS	NS	NS	NS	
	24-Jul-13	6.82	88	14.05	5.36	149	
	17-Oct-13	NS	NS	NS	NS	NS	
		15-Jan-14	NS	NS	NS	NS	NS

Notes:

°C = degrees Celsius

mg/L = milligrams per liter

mV = millivolts

µS/cm = microSiemens per centimeter

DO = Dissolved oxygen

ORP = Oxidation-reduction potential

NS = Not sampled

R = Rejected

J = Estimate

= Data from the current sampling event.

**Table 2
Groundwater Monitoring Results
Dissolved Metals
East Mission Flats Repository**

Well No.	Sample Date	Constituents (mg/L)				
		Antimony	Arsenic	Cadmium	Lead	Zinc
07-EMF-MW-A	11 Dec 07	0.003 U	0.003 U	0.000578 J	0.003 U	0.347 J
	25 Feb 08	0.003 U	0.003 U	0.00172	0.003 U	1.71 J
	3-Jun-08	0.003 U	0.003 U	0.000763	0.003 U	0.582
	19-Aug-08	0.003 U	0.003 U	0.000321	0.003 U	0.683
	10-Nov-08	0.003 U	0.003 U	0.0002 U	0.003 U	0.353
	4-Feb-09	0.003 U	0.003 U	0.000777	0.003 U	0.898
	7-May-09	0.003 U	0.003 U	0.000382	0.003 U	0.753
	10-Aug-09	0.003 U	0.003 U	0.000204	0.003 U	0.558
	11-Nov-09	0.003 U	0.003 U	0.0002 U	0.003 U	0.368
	25-Feb-10	0.003 U	0.003 U	0.000208	0.003 U	0.657
	19-May-10	0.003 U	0.003 U	0.000225	0.003 U	0.568
	25-Aug-10	0.003 U	0.003 U	0.000227	0.003 U	0.584
	16-Nov-10	0.002 U	0.00076 J	0.0002 U	0.001 U	0.544 J
	10-Feb-11	0.002 U	0.001 U	0.00039	0.001 U	1.22 J
	6-Jul-11	0.002 U	0.0073 J*	0.00063	0.001 U	1.38
	24-Oct-11	0.002 U	0.00044 J	0.000220	0.001 UJ	0.804
	25-Jan-12	0.002 U	0.0074 J*	0.00032	0.001 U	1.13
	10-Apr-12	0.002 U	0.0014	0.00058	0.001 U	1.75
	31-Jul-12	0.002 U	0.0018	0.00046	0.001 U	1.56
	29-Oct-12	0.002 U	0.00075 J	0.00023	0.00022 J	0.862 J
	23-Jan-13	0.002 U	0.001 U	0.00037	0.001 U	1.35
	2-Apr-13	0.002 U	0.001 U	0.00038	0.001 U	1.49
	23-Jul-13	0.002 U	0.001 U	0.00033	0.001 U	1.24
	17-Oct-13	0.002 U	0.001 U	0.0002 U	0.0026	0.648
	15-Jan-14	0.002 U	0.0011	0.00035	0.001 U	1.24 J
	07-EMF-MW-B	10 Dec 07	0.003 U	0.003 U	0.0002 U	0.003 U
25 Feb 08		0.003 U	0.003 U	0.0002 U	0.003 U	0.0198 J
3-Jun-08		0.003 U	0.003 U	0.0002 U	0.003 U	0.0212
19-Aug-08		0.003 U	0.003 U	0.0002 U	0.003 U	0.0244
10-Nov-08		0.003 U	0.003 U	0.0002 U	0.003 U	0.0197
4-Feb-09		0.003 U	0.003 U	0.0002 U	0.003 U	0.0210
7-May-09		0.003 U	0.003 U	0.0002 U	0.003 U	0.0168
10-Aug-09		0.003 U	0.003 U	0.0002 U	0.003 U	0.0160
11-Nov-09		0.003 U	0.003 U	0.0002 U	0.003 U	0.0264
25-Feb-10		0.003 U	0.003 U	0.0002 U	0.003 U	0.0153
19-May-10		0.003 U	0.003 U	0.0002 U	0.003 U	0.0157
25-Aug-10		0.003 U	0.003 U	0.0002 U	0.003 U	0.0157
16-Nov-10		0.002 U	0.001 U	0.0002 U	0.001 U	0.0187 J
10-Feb-11		0.002 U	0.001 U	0.0002 U	0.001 U	0.0091 J*
6-Jul-11		0.002 U	0.0077 J*	0.0002 U	0.001 U	0.0126
24-Oct-11		0.002 U	0.001 U	0.0002 U	0.001 UJ	0.0148 J*
25-Jan-12		0.002 U	0.0073 J*	0.0002 U	0.001 U	0.0180
10-Apr-12		0.002 U	0.0014	0.0002 U	0.001 U	0.0162
31-Jul-12		0.002 U	0.00071 J	0.0002 U	0.001 U	0.0142
29-Oct-12		0.002 U	0.001 U	0.0002 U	0.00028 J	0.0121 J
24-Jan-13		0.002 U	0.001 U	0.0002 U	0.001 U	0.0181
2-Apr-13		0.002 U	0.001 U	0.0002 U	0.001 U	0.0197
23-Jul-13		0.002 U	0.0022 J*	0.0002 U	0.001 U	0.0285 J*
17-Oct-13		0.002 U	0.001 U	0.0002 U	0.001 U	0.0227
15-Jan-14		0.002 U	0.001 U	0.0002 U	0.001 U	0.0226 J

Well No.	Sample Date	Constituents (mg/L)					
		Antimony	Arsenic	Cadmium	Lead	Zinc	
07-EMF-MW-C	10 Dec 07	0.003 U	0.003 U	0.0013 J	0.003 U	1.45 J	
	25 Feb 08	0.003 U	0.003 U	0.00318	0.003 U	2.24 J	
	3-Jun-08	NS	NS	NS	NS	NS	
	19-Aug-08	0.003 U	0.003 U	0.00111	0.003 U	1.34	
	10-Nov-08	0.003 U	0.003 U	0.000522	0.003 U	1.57	
	3-Feb-09	0.003 U	0.003 U	0.00354	0.003 U	1.67	
	7-May-09	NS	NS	NS	NS	NS	
	10-Aug-09	0.003 U	0.003 U	0.00229	0.003 U	1.45	
	11-Nov-09	0.003 U	0.003 U	0.00144	0.003 U	2.03	
	25-Feb-10	0.003 U	0.003 U	0.00326	0.003 U	2.02	
	19-May-10	0.003 U	0.003 U	0.00346	0.003 U	2.00	
	25-Aug-10	0.003 U	0.003 U	0.00364	0.003 U	1.86	
	16-Nov-10	0.002 U	0.001 U	0.0029	0.001 U	1.93 J	
	10-Feb-11	NS	NS	NS	NS	NS	
	6-Jul-11	NS	NS	NS	NS	NS	
	24-Oct-11	0.002 U	0.00081 J	0.00072	0.00038 J	1.36	
	25-Jan-12	0.002 U	0.0074 J*	0.0049	0.001 U	1.71	
	10-Apr-12	0.002 U	0.0017	0.00089	0.0015	0.388	
	31-Jul-12	0.002 U	0.0027	0.00025	0.00041 J	1.08	
	29-Oct-12	0.002 U	0.0027	0.00010 J	0.00061 J	0.988 J	
	23-Jan-13	NS	NS	NS	NS	NS	
	2-Apr-13	0.002 U	0.001 U	0.0015	0.001 U	1.65	
	23-Jul-13	0.002 U	0.0024 J*	0.0019	0.001 U	2.03	
	17-Oct-13	0.002 U	0.001 U	0.0012	0.001 U	1.35	
	15-Jan-14	0.002 U	0.001 U	0.0017	0.001 U	1.38 J	
	09-EMF-MW-C Deep	25-Feb-10	0.003 U	0.003 U	0.0002 U	0.003 U	0.0113
		19-May-10	0.003 U	0.003 U	0.0002 U	0.003 U	0.005 U
		25-Aug-10	0.003 U	0.003 U	0.0002 U	0.003 U	0.0317
		16-Nov-10	0.002 U	0.001 U	0.0002 U	0.001 U	0.0216 J
		10-Feb-11	NS	NS	NS	NS	NS
6-Jul-11		NS	NS	NS	NS	NS	
24-Oct-11		0.002 U	0.001 U	0.0002 U	0.001 UJ	0.0167	
25-Jan-12		0.002 U	0.0075 J*	0.0002 U	0.001 U	0.0191	
10-Apr-12		0.002 U	0.0042 J*	0.0002 U	0.00095 J	0.154	
31-Jul-12		0.002 U	0.0011	0.0002 U	0.001 U	0.0116	
29-Oct-12		0.002 U	0.00065 J	0.0002 U	0.00028 J	0.0032 J	
23-Jan-13		0.002 U	0.001 U	0.0002 U	0.001 U	0.0226	
2-Apr-13		0.002 U	0.001 U	0.0002 U	0.001 U	0.0237	
23-Jul-13		0.002 U	0.0022 J*	0.0002 U	0.001 U	0.0088 J*	
17-Oct-13		0.002 U	0.001 U	0.0002 U	0.0029	0.0096 J*	
15-Jan-14		0.002 U	0.0014	0.0002 U	0.001 U	0.0463 J	

Well No.	Sample Date	Constituents (mg/L)					
		Antimony	Arsenic	Cadmium	Lead	Zinc	
07-EMF-MW-D	10 Dec 07	0.003 U	0.003 U	0.0002 U	0.003 U	0.0326 J	
	25 Feb 08	0.003 U	0.003 U	0.0002 U	0.003 U	0.0285 J	
	3-Jun-08	NS	NS	NS	NS	NS	
	19-Aug-08	0.003 U	0.003 U	0.0002 U	0.003 U	0.132	
	10-Nov-08	0.003 U	0.003 U	0.0002 U	0.003 U	0.0794	
	3-Feb-09	0.003 U	0.003 U	0.0002 U	0.003 U	0.0531	
	7-May-09	NS	NS	NS	NS	NS	
	11-Aug-09	0.003 U	0.003 U	0.0002 U	0.003 U	0.0918	
	11-Nov-09	0.003 U	0.003 U	0.0002 U	0.003 U	0.103	
	25-Feb-10	0.003 U	0.003 U	0.0002 U	0.003 U	0.0352	
	19-May-10	0.003 U	0.003 U	0.0002 U	0.003 U	0.105	
	25-Aug-10	0.003 U	0.003 U	0.0002 U	0.003 U	0.109	
	16-Nov-10	0.002 U	0.0018	0.0002 U	0.001 U	0.0563 J	
	10-Feb-11	0.002 U	0.001 U	0.0002 U	0.001 U	0.127 J*	
	6-Jul-11	NS	NS	NS	NS	NS	
	25-Oct-11	0.002 U	0.0019	0.0002 U	0.001 UJ	0.0395	
	26-Jan-12	0.002 U	0.0079 J*	0.00016 J	0.001 U	0.0584	
	10-Apr-12	0.002 U	0.0014	0.0002 U	0.001 U	0.184	
	1-Aug-12	0.002 U	0.0021	0.0002 U	0.001 U	0.112	
	30-Oct-12	0.002 U	0.0018	0.00005 J	0.00047 J	0.0464 J	
	24-Jan-13	0.002 U	0.001 U	0.0002 U	0.001 U	0.0425	
	2-Apr-13	0.002 U	0.001 U	0.0002 U	0.001 U	0.0466	
	23-Jul-13	0.002 U	0.0029 J*	0.0002 U	0.001 U	0.0387 J*	
	17-Oct-13	0.002 U	0.001 U	0.0002 U	0.001 U	0.0537	
	15-Jan-14	0.002 U	0.001 U	0.0002 U	0.001 U	0.0210 J	
	08-EMF-MW-E	10 Nov 08	0.003 U	0.0148	0.0002 U	0.003 U	0.0141
		3-Feb-09	0.003 U	0.003 U	0.0002 U	0.003 U	0.01 U
		7-May-09	0.003 U	0.0035	0.0002 U	0.003 U	0.00889
		11-Aug-09	0.003 U	0.0195	0.0002 U	0.003 U	0.00848
		11-Nov-09	0.003 U	0.0232	0.0002 U	0.003 U	0.00671
25-Feb-10		0.003 U	0.003 U	0.0002 U	0.003 U	0.00599	
19-May-10		0.003 U	0.00447	0.0002 U	0.003 U	0.00633	
25-Aug-10		0.003 U	0.0172	0.0002 U	0.003 U	0.00687	
16-Nov-10		0.002 U	0.0177	0.0002 U	0.001 U	0.0069 J	
10-Feb-11		0.002 U	0.00089 J	0.0002 U	0.001 U	0.0042 J	
6-Jul-11		0.002 U	0.0074 J*	0.0002 U	0.001 U	0.0048 J	
24-Oct-11		0.002 U	0.020	0.0002 U	0.001 UJ	0.0045	
26-Jan-12		0.002 U	0.0069 J*	0.0002 U	0.001 U	0.0051 J*	
11-Apr-12		0.002 U	0.002	0.0002 U	0.001 U	0.0063 J*	
1-Aug-12		0.002 U	0.0063	0.0002 U	0.001 U	0.0064	
29-Oct-12		0.002 U	0.0149	0.00008 J	0.001 U	0.0071 J*	
23-Jan-13		0.002 U	0.0013	0.0002 U	0.001 U	0.0091 J*	
2-Apr-13		0.002 U	0.001 U	0.0002 U	0.001 U	0.0083 J*	
23-Jul-13		0.002 U	0.0026 J*	0.0002 U	0.001 U	0.0124 J*	
17-Oct-13		0.002 U	0.0067	0.0002 U	0.001 U	0.0120 J*	
15-Jan-14	0.002 U	0.001 U	0.0002 U	0.001 U	0.0073 J		

Well No.	Sample Date	Constituents (mg/L)				
		Antimony	Arsenic	Cadmium	Lead	Zinc
08-EMF-MW-F	11-Nov-08	0.003 U	0.003 U	0.000205	0.003 U	1.58
	3-Feb-09	0.003 U	0.003 U	0.000304	0.003 U	1.16
	7-May-09	0.003 U	0.003 U	0.000258	0.003 U	1.32
	10-Aug-09	0.003 U	0.003 U	0.00023	0.003 U	1.12
	11-Nov-09	0.003 U	0.003 U	0.000464	0.003 U	2.53
	25-Feb-10	0.003 U	0.003 U	0.000947	0.003 U	3.82
	19-May-10	0.003 U	0.003 U	0.00132	0.003 U	4.47
	25-Aug-10	0.003 U	0.003 U	0.000436	0.003 U	1.93
	16-Nov-10	0.002 U	0.001 U	0.00065	0.001 U	3.37 J
	10-Feb-11	0.002 U	0.001 U	0.00045	0.00043 J	1.84 J
	6-Jul-11	0.002 U	0.0056 J*	0.00016 J	0.00079 J	0.976
	25-Oct-11	0.002 U	0.001 U	0.00031	0.001 UJ	1.69
	26-Jan-12	0.002 U	0.0041 J*	0.00094	0.00029 J	3.10
	11-Apr-12	0.002 U	0.00086 J	0.00031	0.001 U	1.63
	1-Aug-12	0.002 U	0.00057 J	0.0002 U	0.001 U	1.33
	30-Oct-12	0.002 U	0.001 U	0.00043	0.00036 J	1.73 J
	23-Jan-13	0.002 U	0.001 U	0.00045	0.001 U	1.81
	2-Apr-13	0.002 U	0.001 U	0.0010	0.001 U	2.97
	23-Jul-13	0.002 U	0.0014 J*	0.00053	0.001 U	1.90
	17-Oct-13	0.002 U	0.001 U	0.00099	0.001 U	2.39
15-Jan-14	0.002 U	0.001 U	0.00180	0.001 U	3.28 J	
Decon Well	16-Nov-10	0.002 U	0.00092 J	0.0002 U	0.00061 J	0.504 J
	10-Feb-11	NS	NS	NS	NS	NS
	6-Jul-11	0.002 U	0.0068 J*	0.0002 U	0.001 U	0.407
	25-Oct-11	0.002 U	0.0009 J	0.0002 U	0.0014 J	0.449
	26-Jan-12	NS	NS	NS	NS	NS
	10-Apr-12	NS	NS	NS	NS	NS
	1-Aug-12	0.002 U	0.0055	0.0002 U	0.00063 J	5.62
	30-Oct-12	0.002 U	0.00080 J	0.000099 J	0.001 U	0.401 J
	23-Jan-13	NS	NS	NS	NS	NS
	2-Apr-13	NS	NS	NS	NS	NS
	24-Jul-13	0.002 U	0.00190 J*	0.0002 U	0.001 U	0.342
	17-Oct-13	NS	NS	NS	NS	NS
	15-Jan-14	NS	NS	NS	NS	NS
Regulatory Threshold		0.006 ^a	0.01 ^a	0.005 ^a	0.015 ^a	5.0 ^b

Notes:

mg/L = milligrams per liter

NS = Not sampled

U = The result is below the detection limit

J = Reported concentration is an estimate based on data quality review

J* = The result is an estimated quantity. This analyte was detected in both the sample result and an associated field blank sample during the same sampling event.

a. National Primary Drinking Water Regulation (Maximum Contaminant Level)

b. National Secondary Drinking Water Regulation

	= Value exceeds the regulatory threshold
	= Data from the current sampling event.

Attachment A
Field Sheets



Groundwater Sampling Record

Project: EMF Water Monitoring	Well Number: 07-EMF-MW-A
Project Number: 13011-08-02-01	Sample Number: (07-EMF-MW-A)011514
Location:	Weather: Sunny 32°
Date: 01/15/2014	Sampler(s): GM/RJK

Depth to Bottom (ft):	Purge Time: 14 mins						
Depth to Water (ft): 12.69	Purge Method: Low Flow						
DTB-DTW (ft):	Volume Measurement Method:						
1 Well Volume (gal):	Purge Volume (Volume x 3) (gal):						
Conversion Factors (height x factor = 1 well volume)	¾" diameter 0.023	1" diameter 0.041	1 ½" diameter 0.092	2" diameter 0.163	4" diameter 0.652	6" diameter 1.469	8" diameter 2.611

GROUNDWATER DATA

Purged Volume (gal)	Time	pH	Spec. Cond. (mS/cm)	Temp (°C)	Dissolved Oxygen		ORP (mV)
					mg/L	%	
	00:00	5.90	0.120	7.85	8.72	79.4	162
	10:00	5.51	0.167	8.47	0.51	4.7	148
	12:00	5.51	0.168	8.46	0.38	3.5	148
	14:00	5.49	0.168	8.39	0.33	3.0	148

Sampling Date: 1/15/14	Sampling Method: LF	Time Sampled: 10:40				
Container	Volume	Preservative	Cooled	Filtered	Analyte	Lab
Poly	1L	HNO ₃	Y	Y	DM & cations	CLP
Poly	1L	HNO ₃	Y	N	TM, Hard, TP	CLP
Poly	500 mL	---	Y	Y	Dissolved Anions	SVL
Poly	500 mL	---	Y	N	Alkalinity	SVL

Chain-of-Custody: Yes/No	Duplicate Sample Number:
Chain-of-Custody Number:	Replicate Sample Number:

Notes:

1044863 @ 10:49 11:55



TerraGraphics

Environmental Engineering, Inc.

Groundwater Sampling Record

Project: EMF Water Monitoring	Well Number: 07-EMF-MW-B
Project Number: 13011-08-02-01	Sample Number: (07-EMF-MW-B)011514
Location:	Weather: Sunny 33°
Date: 01/15/2014	Sampler(s): GM/RJK

Depth to Bottom (ft):	Purge Time: 18 min						
Depth to Water (ft): 10.46	Purge Method: low Flow						
DTB-DTW (ft):	Volume Measurement Method:						
1 Well Volume (gal):	Purge Volume (Volume x 3) (gal):						
Conversion Factors (height x factor = 1 well volume)	¾" diameter 0.023	1" diameter 0.041	1 ½" diameter 0.092	2" diameter 0.163	4" diameter 0.652	6" diameter 1.469	8" diameter 2.611

GROUNDWATER DATA

Purged Volume (gal)	Time	pH	Spec. Cond. (mS/cm)	Temp (°C)	Dissolved Oxygen		ORP (mV)
					mg/L	%	
	00:00	9.07	0.081	9.29	6.45	60.8	127
	14:00	5.75	0.081	9.74	0.25	2.4	140
	16:00	5.70	0.082	9.72	0.23	2.2	143
	18:00	5.70	0.080	9.88	0.22	2.1	143

Sampling Date: 1/15/14	Sampling Method: LF	Time Sampled: 11:27				
Container	Volume	Preservative	Cooled	Filtered	Analyte	Lab
Poly	1L	HNO ₃	Y	Y	DM & cations	CLP
Poly	1L	HNO ₃	Y	N	TM, Hard, TP	CLP
Poly	500 mL	---	Y	Y	Dissolved Anions	SVL
Poly	500 mL	---	Y	N	Alkalinity	SVL

Chain-of-Custody: Yes/No	Duplicate Sample Number:
Chain-of-Custody Number:	Replicate Sample Number:

Notes:

1034502 @ 11:32 12:37



TerraGraphics
Environmental Engineering, Inc.

Groundwater Sampling Record

Project: EMF Water Monitoring	Well Number: 07-EMF-MW-C Deep
Project Number: 13011-08-02-01	Sample Number: (07-EMF-MW-C Deep)01514
Location:	Weather: Sunny 34°
Date: 01/15/2014	Sampler(s): GM/RJK

Depth to Bottom (ft):	Purge Time: 8 mins
Depth to Water (ft): 7.96	Purge Method: Low Flow
DTB-DTW (ft):	Volume Measurement Method:
1 Well Volume (gal):	Purge Volume (Volume x 3) (gal):

Conversion Factors (height x factor= 1 well volume)	¾" diameter 0.023	1" diameter 0.041	1 ½" diameter 0.092	2" diameter 0.163	4" diameter 0.652	6" diameter 1.469	8" diameter 2.611
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GROUNDWATER DATA

Purged Volume (gal)	Time	pH	Spec. Cond. (mS/cm)	Temp (°C)	Dissolved Oxygen		ORP (mV)
					mg/L	%	
	00:00	6.73	0.078	9.35	2.62	24.8	64
	04:00	6.64	0.103	9.83	0.38	3.7	46
	06:00	6.67	0.104	9.86	0.33	3.1	49
	08:00	6.61	0.104	9.82	0.29	2.8	54

Sampling Date: 01/15/14 Sampling Method: LF Time Sampled: 11:55

Container	Volume	Preservative	Cooled	Filtered	Analyte	Lab
Poly	1L	HNO ₃	Y	Y	DM & cations	CLP
Poly	1L	HNO ₃	Y	N	TM, Hard, TP	CLP
Poly	500 mL	---	Y	Y	Dissolved Anions	SVL
Poly	500 mL	---	Y	N	Alkalinity	SVL

Chain-of-Custody: Yes/No Duplicate Sample Number:
Chain-of-Custody Number: Replicate Sample Number:

Notes:

1034516 @ 12:07 13:12



TerraGraphics

Environmental Engineering, Inc.

Groundwater Sampling Record

Project: EMF Water Monitoring	Well Number: 07-EMF-MW-C
Project Number: 13011-08-02-01	Sample Number: (07-EMF-MW-C)01151Y
Location:	Weather: Sunny 34°
Date: 01/15/2014	Sampler(s): GM/RJK

Depth to Bottom (ft):	Purge Time: 16 min						
Depth to Water (ft): 7.97	Purge Method: LowFlow						
DTB-DTW (ft):	Volume Measurement Method:						
1 Well Volume (gal):	Purge Volume (Volume x 3) (gal):						
Conversion Factors (height x factor= 1 well volume)	¾" diameter 0.023	1" diameter 0.041	1 ½" diameter 0.092	2" diameter 0.163	4" diameter 0.652	6" diameter 1.469	8" diameter 2.611

GROUNDWATER DATA

Purged Volume (gal)	Time	pH	Spec. Cond. (mS/cm)	Temp (°C)	Dissolved Oxygen		ORP (mV)
					mg/L	%	
	00:00	6.34	0.084	9.29	5.06	47.7	64
	12:00	5.75	0.087	10.11	2.04	19.6	76
	14:00	5.73	0.087	10.20	1.95	18.8	79
	16:00	5.75	0.087	10.14	1.85	17.8	78

Sampling Date: 01/15/14		Sampling Method: LF		Time Sampled: 12:23			
Container	Volume	Preservative	Cooled	Filtered	Analyte	Lab	
Poly	1L	HNO ₃	Y	Y	DM & cations	CLP	
Poly	1L	HNO ₃	Y	N	TM, Hard, TP	CLP	
Poly	500 mL	---	Y	Y	Dissolved Anions	SVL	
Poly	500 mL	---	Y	N	Alkalinity	SVL	

Chain-of-Custody: Yes/No	Duplicate Sample Number:
Chain-of-Custody Number:	Replicate Sample Number:

Notes:

1044866 @ 12:30 13:35



TerraGraphics

Environmental Engineering, Inc.

Groundwater Sampling Record

Project: EMF Water Monitoring	Well Number: 07-EMF-MW-D
Project Number:	Sample Number: (07-EMF-MW-D)101514
Location:	Weather: Sunny 34°
Date: 01/15/2014	Sampler(s): GM/RJK

Depth to Bottom (ft):	Purge Time: 12 min						
Depth to Water (ft): 8.69	Purge Method: Low Flow						
DTB-DTW (ft):	Volume Measurement Method:						
1 Well Volume (gal):	Purge Volume (Volume x 3) (gal):						
Conversion Factors (height x factor= 1 well volume)	¾" diameter 0.023	1" diameter 0.041	1 ½" diameter 0.092	2" diameter 0.163	4" diameter 0.652	6" diameter 1.469	8" diameter 2.611

GROUNDWATER DATA

Purged Volume (gal)	Time	pH	Spec. Cond. (mS/cm)	Temp (°C)	Dissolved Oxygen		ORP (mV)
					mg/L	%	
	00:00	6.55	0.075	9.04	4.01	37.6	90
	08:00	5.90	0.074	9.14	0.35	3.3	92
	10:00	5.94	0.073	9.17	0.26	2.4	89
	12:00	5.92	0.074	9.15	0.21	2.0	90

Sampling Date: 01/15/14	Sampling Method: LF	Time Sampled: 13:30				
Container	Volume	Preservative	Cooled	Filtered	Analyte	Lab
Poly	1L	HNO ₃	Y	Y	DM & cations	CLP
Poly	1L	HNO ₃	Y	N	TM, Hard, TP	CLP
Poly	500 mL	---	Y	Y	Dissolved Anions	SVL
Poly	500 mL	---	Y	N	Alkalinity	SVL

Chain-of-Custody: Yes/No	Duplicate Sample Number:
Chain-of-Custody Number:	Replicate Sample Number:

Notes:

1034485 @ 12:36 14:42



TerraGraphics
Environmental Engineering, Inc.

FB

Groundwater Sampling Record

Project: EMF Water Monitoring				Well Number: EMF-DECON			
Project Number:				Sample Number: (EMF-DECON) 0			
Location:				Weather: Sunny 38°			
Date: 01/15/2014				Sampler(s): GM/RJK			
Depth to Bottom (ft):				Purge Time:			
Depth to Water (ft):				Purge Method:			
DTB-DTW (ft):				Volume Measurement Method:			
1 Well Volume (gal):				Purge Volume (Volume x 3) (gal):			
Conversion Factors (height x factor= 1 well volume)	¾" diameter 0.023	1" diameter 0.041	1 ½" diameter 0.092	2" diameter 0.163	4" diameter 0.652	6" diameter 1.469	8" diameter 2.611

GROUNDWATER DATA

Purged Volume (gal)	Time	pH	Spec. Cond. (mS/cm)	Temp (°C)	Dissolved Oxygen		ORP (mV)
					mg/L	%	
Not in Service							

Sampling Date:		Sampling Method:		Time Sampled:			
Container	Volume	Preservative	Cooled	Filtered	Analyte	Lab	
Poly	1L	HNO ₃	Y	Y	DM & cations	CLP	
Poly	1L	HNO ₃	Y	N	TM, Hard, TP	CLP	
Poly	500 mL	---	Y	Y	Dissolved Anions	SVL	
Poly	500 mL	---	Y	N	Alkalinity	SVL	

Chain-of-Custody: Yes/No	Duplicate Sample Number:
Chain-of-Custody Number:	Replicate Sample Number:

Notes:

PZ-B
1058761 @ 14:45 15:51

Baro 1038424 @ 14:48 15:56

~~Field~~ Field Blank Sample Number: ~~(EMF-DECON)~~ (EMF-DECON) 011514-E @ 15:25

Attachment B
CLP Analytical Results

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CAS NUMBER	ANALYTE	FINAL RESULT	UNITS	FINAL VALIDATION QUALIFIER	IDEQ QUALIFIER	COMB QUALIFIER	DATA VAL LABEL	SAMPLE ADJUSTED CRQL	SAMPLE ADJUSTED MDL	LAB RESULT	LAB QUALIFIERS	METHOD CRQL	NONMOISTURE SAMPLE		NONMOISTURE SAMPLE		SAMPLE DATE TIME	LAB SAMPLE TYPE	SPIKE ADDED	STATION LOCATION	SCRIBE SAMPLE NUMBER	PARENT SAMPLE NAME	PARENT SAMPLE LOCATION	LAB REPLICATE TYPE	SAMPLE SOURCE		
																ADJUSTED CRQL	ADJUSTED MDL	CRQL	INSTRUMENT MDL											
44099	MJGNCO	MJGNCO	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	2.0	U	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-38-2	Arsenic	1.1	ug/L	U		U	S4VEM	1.0	0.061	1.1	U	1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-43-9	Cadmium	0.35	ug/L	U		U	S4VEM	0.20	0.028	0.35	U	0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-70-2	Calcium	14400	ug/L	U		U	S4VEM	40.0	16.6	14400	U	40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	1.0	U	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-95-4	Magnesium	7510	ug/L	U		U	S4VEM	60.0	14.4	7510	U	60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-09-7	Potassium	1330	ug/L	U		U	S4VEM	500	25.0	1330	U	500	500	ug/L	25.0	25.0	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-23-5	Sodium	6040	ug/L	U		U	S4VEM	500	98.9	6040	U	500	500	ug/L	98.9	98.9	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-66-6	Zinc	1240	ug/L	J-		J-	S4VEM	2.0	0.32	1240	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	2.0	U	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-38-2	Arsenic	1.0	ug/L	U		U	S4VEM	1.0	0.061	0.10	J	1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-43-9	Cadmium	0.20	ug/L	U		U	S4VEM	0.20	0.028	0.070	J	0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-70-2	Calcium	8850	ug/L	U		U	S4VEM	40.0	16.6	8850	U	40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	0.066	J	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-95-4	Magnesium	3210	ug/L	U		U	S4VEM	60.0	14.4	3210	U	60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-09-7	Potassium	500	ug/L	U		U	S4VEM	500	25.0	429	J	500	500	ug/L	25.0	25.0	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-23-5	Sodium	4320	ug/L	U		U	S4VEM	500	98.9	4320	U	500	500	ug/L	98.9	98.9	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-66-6	Zinc	22.6	ug/L	J-		J-	S4VEM	2.0	0.32	22.6	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	0.40	J	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-38-2	Arsenic	1.4	ug/L	U		U	S4VEM	1.0	0.061	1.4	J	1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-43-9	Cadmium	0.20	ug/L	U		U	S4VEM	0.20	0.028	0.042	J	0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-70-2	Calcium	14300	ug/L	U		U	S4VEM	40.0	16.6	14300	U	40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	0.024	J	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-95-4	Magnesium	3880	ug/L	U		U	S4VEM	60.0	14.4	3880	U	60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-09-7	Potassium	1040	ug/L	U		U	S4VEM	500	25.0	1040	U	500	500	ug/L	25.0	25.0	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-23-5	Sodium	6750	ug/L	U		U	S4VEM	500	98.9	6750	U	500	500	ug/L	98.9	98.9	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-66-6	Zinc	46.3	ug/L	J-		J-	S4VEM	2.0	0.32	46.3	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	2.0	U	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-38-2	Arsenic	1.0	ug/L	U		U	S4VEM	1.0	0.061	0.68	J	1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-43-9	Cadmium	1.7	ug/L	U		U	S4VEM	0.20	0.028	1.7	J	0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-70-2	Calcium	7810	ug/L	U		U	S4VEM	40.0	16.6	7810	U	40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	0.26	J	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7439-95-4	Magnesium	4450	ug/L	U		U	S4VEM	60.0	14.4	4450	U	60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-09-7	Potassium	1590	ug/L	U		U	S4VEM	500	25.0	1590	U	500	500	ug/L	25.0	25.0	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-23-5	Sodium	5560	ug/L	U		U	S4VEM	500	98.9	5560	U	500	500	ug/L	98.9	98.9	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-66-6	Zinc	1380	ug/L	J-		J-	S4VEM	2.0	0.32	1380	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 12:23:00	Field_Sample		(07-EMF-MW-C)	(07-EMF-MW-C)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	2.0	U	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 13:30:00	Field_Sample		(07-EMF-MW-D)	(07-EMF-MW-D)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-38-2	Arsenic	1.0	ug/L	U		U	S4VEM	1.0	0.061	0.22	J	1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 13:30:00	Field_Sample		(07-EMF-MW-D)	(07-EMF-MW-D)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-43-9	Cadmium	0.20	ug/L	U		U	S4VEM	0.20	0.028	0.033	J	0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 13:30:00	Field_Sample		(07-EMF-MW-D)	(07-EMF-MW-D)	011514 DM, Cations				FIELD
44099	MJGNCO	MJGNCO	7440-70-2	Calcium	6760	ug/L	U		U	S4VEM	40.0	16.6	6760	U	40	40.0	ug/L	16.6	16.6											

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CAS NUMBER	ANALYTE	FINAL RESULT	RESULT UNITS	FINAL VALIDATION QUALIFIER	IDEQ QUALIFIER	COMB QUALIFIER	DATA VAL LABEL	SAMPLE ADJUSTED CRQL	SAMPLE ADJUSTED MDL	LAB RESULT	LAB QUALIFIERS	METHOD CRQL	NONMOISTURE SAMPLE		NONMOISTURE SAMPLE		SAMPLE DATE TIME	LAB SAMPLE TYPE	SPIKE ADDED	STATION LOCATION	SCRIBE SAMPLE NUMBER	PARENT SAMPLE NAME	PARENT SAMPLE LOCATION	LAB REPLICATE TYPE	SAMPLE SOURCE		
																ADJUSTED CRQL	ADJUSTED MDL	CRQL	INSTRUMENT MDL										ADJUSTED MDL	UNITS
44099	MJGNCO	MJGNCO5	7440-36-0	Antimony	103	ug/L				S4VEM	2.0	0.35	103		2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 10:40:00	Matrix_Spike	100	(07-EMF-MW-A)	011514 DM, Cations		MJGNCO	(07-EMF-MW-A)	FIELD	
44099	MJGNCO	MJGNCO5	7440-38-2	Arsenic	43.4	ug/L				S4VEM	1.0	0.061	43.4		1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 10:40:00	Matrix_Spike	40.0	(07-EMF-MW-A)	011514 DM, Cations		MJGNCO	(07-EMF-MW-A)	FIELD	
44099	MJGNCO	MJGNCO5	7440-43-9	Cadmium	50.4	ug/L				S4VEM	0.20	0.028	50.4		0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 10:40:00	Matrix_Spike	50.0	(07-EMF-MW-A)	011514 DM, Cations		MJGNCO	(07-EMF-MW-A)	FIELD	
44099	MJGNCO	MJGNCO5	7439-92-1	Lead	20.5	ug/L				S4VEM	1.0	0.021	20.5		1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 10:40:00	Matrix_Spike	20.0	(07-EMF-MW-A)	011514 DM, Cations		MJGNCO	(07-EMF-MW-A)	FIELD	
44099	MJGNCO	MJGNCO5	7440-66-6	Zinc	1600	ug/L				S4VEM	2.0	0.32	1600	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 10:40:00	Matrix_Spike	500	(07-EMF-MW-A)	011514 DM, Cations		MJGNCO	(07-EMF-MW-A)	FIELD	
44099	MJGNCO	MJGNCOA	7440-66-6	Zinc	3400	ug/L				S4VEM	2.0	0.32	3400		2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 10:40:00	Post_Digestion_Spike	3200	(07-EMF-MW-A)	011514 DM, Cations		MJGNCO	(07-EMF-MW-A)	FIELD	
44099	MJGNCO	LCS01	7440-36-0	Antimony	4.1	ug/L				S4VEM	2.0	0.35	4.1		2	2.0	ug/L	0.35	0.35	ug/L		Laboratory_Control_Sample	4.0						LAB	
44099	MJGNCO	LCS01	7440-38-2	Arsenic	2.1	ug/L				S4VEM	1.0	0.061	2.1		1	1.0	ug/L	0.061	0.061	ug/L		Laboratory_Control_Sample	2.0						LAB	
44099	MJGNCO	LCS01	7439-92-1	Lead	2.0	ug/L				S4VEM	1.0	0.021	2.0		1	1.0	ug/L	0.021	0.021	ug/L		Laboratory_Control_Sample	2.0						LAB	
44099	MJGNCO	LCS01	7440-66-6	Zinc	4.4	ug/L				S4VEM	2.0	0.32	4.4		2	2.0	ug/L	0.32	0.32	ug/L		Laboratory_Control_Sample	4.0						LAB	
44099	MJGNCO	LCS01	7440-70-2	Calcium	69.3	ug/L				S4VEM	40.0	16.6	69.3		40	40.0	ug/L	16.6	16.6	ug/L		Laboratory_Control_Sample	80.0						LAB	
44099	MJGNCO	LCS01	7439-95-4	Magnesium	120	ug/L				S4VEM	60.0	14.4	120		60	60.0	ug/L	14.4	14.4	ug/L		Laboratory_Control_Sample	120						LAB	
44099	MJGNCO	LCS01	7440-09-7	Potassium	958	ug/L				S4VEM	500	25.0	958		500	500	ug/L	25.0	25.0	ug/L		Laboratory_Control_Sample	1000						LAB	
44099	MJGNCO	LCS01	7440-23-5	Sodium	960	ug/L				S4VEM	500	98.9	960		500	500	ug/L	98.9	98.9	ug/L		Laboratory_Control_Sample	1000						LAB	
44099	MJGNCO	LCS02	7440-43-9	Cadmium	0.41	ug/L				S4VEM	0.20	0.028	0.41		0.2	0.20	ug/L	0.028	0.028	ug/L		Laboratory_Control_Sample	0.40						LAB	
44099	MJGNCO	PBW01	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	0.51	J	2	2.0	ug/L	0.35	0.35	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7440-38-2	Arsenic	1.0	ug/L	U		U	S4VEM	1.0	0.061	1.0	U	1	1.0	ug/L	0.061	0.061	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7440-43-9	Cadmium	0.20	ug/L	U		U	S4VEM	0.20	0.028	0.20	U	0.2	0.20	ug/L	0.028	0.028	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	1.0	U	1	1.0	ug/L	0.021	0.021	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7440-66-6	Zinc	2.0	ug/L	U		U	S4VEM	2.0	0.32	0.96	J	2	2.0	ug/L	0.32	0.32	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7440-70-2	Calcium	40.0	ug/L	U		U	S4VEM	40.0	16.6	40.0	U	40	40.0	ug/L	16.6	16.6	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7439-95-4	Magnesium	60.0	ug/L	J		J	S4VEM	60.0	14.4	-16	J	60	60.0	ug/L	14.4	14.4	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7440-09-7	Potassium	500	ug/L	J		J	S4VEM	500	25.0	-31	J	500	500	ug/L	25.0	25.0	ug/L		Method_Blank							LAB	
44099	MJGNCO	PBW01	7440-23-5	Sodium	500	ug/L	U		U	S4VEM	500	98.9	500	U	500	500	ug/L	98.9	98.9	ug/L		Method_Blank							LAB	
44099	MJGNCO	MJGNCO9	7440-70-2	Calcium	14700	ug/L				S4VEM	40.0	16.6	14700		40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	0.53	J	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7439-95-4	Magnesium	7700	ug/L				S4VEM	60.0	14.4	7700		60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-38-2	Arsenic	4.2	ug/L				S4VEM	1.0	0.061	4.2		1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-43-9	Cadmium	0.35	ug/L				S4VEM	0.20	0.028	0.35		0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7723-14-0	Phosphorus	184	ug/L	J		J	S4VEM	10.0	2.0	184	E	10	10.0	ug/L	2.0	2.0	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-66-6	Zinc	68.4	mg/L				S4VEM	33.0	0.10	68.4		33	33.0	mg/L	0.10	0.10	mg/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	0.33	J	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-66-6	Zinc	1310	ug/L	J-		J-	S4VEM	2.0	0.32	1310	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 10:40:00	Field_Sample		(07-EMF-MW-A)	(07-EMF-MW-A)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-70-2	Calcium	9240	ug/L				S4VEM	40.0	16.6	9240		40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	2.0	U	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7439-95-4	Magnesium	3360	ug/L				S4VEM	60.0	14.4	3360		60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-38-2	Arsenic	1.0	ug/L	U		U	S4VEM	1.0	0.061	0.19	J	1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-43-9	Cadmium	0.20	ug/L	U		U	S4VEM	0.20	0.028	0.080	J	0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7723-14-0	Phosphorus	14.7	ug/L	J		J	S4VEM	10.0	2.0	14.7	E	10	10.0	ug/L	2.0	2.0	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7723-14-0	Phosphorus	36.9	mg/L				S4VEM	33.0	0.10	36.9		33	33.0	mg/L	0.10	0.10	mg/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	0.45	J	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-66-6	Zinc	24.0	ug/L	J-	J+	J+	S4VEM	2.0	0.32	24.0	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 11:27:00	Field_Sample		(07-EMF-MW-B)	(07-EMF-MW-B)	011514 TM, Hard, TP				FIELD
44099	MJGNCO	MJGNCO9	7440-70-2	Calcium	14200	ug/L				S4VEM	40.0	16.6	14200		40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 11:55:00	Field_Sample		(07-EMF-MW-C-DEEP)	(07-EMF-MW-C-DEEP)	011514 TM, Hard, TP				FIELD
44099	MJGNCO</																													

CASE NUMBER	SAMPLE DELIVERY GROUP	SAMPLE ID	CAS NUMBER	ANALYTE	FINAL RESULT	RESULT UNITS	FINAL VALIDATION QUALIFIER	IDEQ QUALIFIER	COMB QUALIFIER	DATA VAL LABEL	SAMPLE ADJUSTED CRQL	SAMPLE ADJUSTED MDL	LAB RESULT	LAB QUALIFIERS	METHOD CROL	NONMOISTURE ADJUSTED CRQL	NONMOISTURE INSTRUMENT	NONMOISTURE SAMPLE MDL	NONMOISTURE MDL	SAMPLE DATE TIME	LAB SAMPLE TYPE	SPIKE ADDED	STATION LOCATION	SCRIBE SAMPLE NUMBER	PARENT SAMPLE NAME	PARENT SAMPLE LOCATION	LAB REPLICATE TYPE	SAMPLE SOURCE	
																													CRQL
44099	MJGNC9	MJGND7	7440-70-2	Calcium	40.0	ug/L	U		U	S4VEM	40.0	16.6	40.0	U	40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7440-38-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	2.0	U	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7439-95-4	Magnesium	60.0	ug/L	U		U	S4VEM	60.0	14.4	60.0	U	60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7440-38-2	Arsenic	1.0	ug/L	U		U	S4VEM	1.0	0.061	1.0	U	1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7440-43-9	Cadmium	0.20	ug/L	U		U	S4VEM	0.20	0.028	0.20	U	0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7723-14-0	Phosphorus	10.0	ug/L	UJ		UJ	S4VEM	10.0	2.0	10.0	UE	10	10.0	ug/L	2.0	2.0	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7440-43-9	Hardness	33.0	mg/L	U		U	S4VEM	33.0	0.10	33.0	U	33	33.0	mg/L	0.10	0.10	mg/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	1.0	U	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGND7	7440-66-6	Zinc	3.7	ug/L	J-		J-	S4VEM	2.0	0.32	3.7	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 15:25:00	Field_Sample		(DECON WELL)	(EMF-DECON) 011514-E TM, Hard, TP				FIELD
44099	MJGNC9	MJGNC9D	7440-70-2	Calcium	14700	ug/L				S4VEM	40.0	16.6	14700		40	40.0	ug/L	16.6	16.6	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	0.52	J	2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	7439-95-4	Magnesium	7700	ug/L				S4VEM	60.0	14.4	7700		60	60.0	ug/L	14.4	14.4	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	7440-38-2	Arsenic	4.8	ug/L				S4VEM	1.0	0.061	4.8		1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	7440-43-9	Cadmium	0.35	ug/L				S4VEM	0.20	0.028	0.35		0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	7723-14-0	Phosphorus	184	ug/L				S4VEM	10.0	2.0	184		10	10.0	ug/L	2.0	2.0	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	Hardness	Hardness	68.4	mg/L				S4VEM	33.0	0.00010	68.4		33	33.0	mg/L	0.00010	0.00010	mg/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	0.35	J	1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9D	7440-66-6	Zinc	1280	ug/L				S4VEM	2.0	0.32	1280		2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 10:40:00	Duplicate		(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9S	7723-14-0	Phosphorus	709	ug/L				S4VEM	10.0	2.0	709		10	10.0	ug/L	2.0	2.0	ug/L	01/15/2014 10:40:00	Matrix_Spike	500	(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9S	7440-36-0	Antimony	104	ug/L				S4VEM	2.0	0.35	104		2	2.0	ug/L	0.35	0.35	ug/L	01/15/2014 10:40:00	Matrix_Spike	100	(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9S	7440-38-2	Arsenic	46.1	ug/L				S4VEM	1.0	0.061	46.1		1	1.0	ug/L	0.061	0.061	ug/L	01/15/2014 10:40:00	Matrix_Spike	40.0	(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9S	7440-43-9	Cadmium	49.7	ug/L				S4VEM	0.20	0.028	49.7		0.2	0.20	ug/L	0.028	0.028	ug/L	01/15/2014 10:40:00	Matrix_Spike	50.0	(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9S	7439-92-1	Lead	20.5	ug/L				S4VEM	1.0	0.021	20.5		1	1.0	ug/L	0.021	0.021	ug/L	01/15/2014 10:40:00	Matrix_Spike	20.0	(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9S	7440-66-6	Zinc	1640	ug/L				S4VEM	2.0	0.32	1640	N	2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 10:40:00	Matrix_Spike	500	(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	MJGNC9A	7440-66-6	Zinc	1760	ug/L				S4VEM	2.0	0.32	1760		2	2.0	ug/L	0.32	0.32	ug/L	01/15/2014 10:40:00	Post_Digestion_Spike	2600	(07-EMF-MW-A) 011514 TM, Hard, TP	MJGNC9	(07-EMF-MW-A)	D	FIELD	
44099	MJGNC9	LCS01	7440-36-0	Antimony	4.5	ug/L				S4VEM	2.0	0.35	4.5		2	2.0	ug/L	0.35	0.35	ug/L			Laboratory_Control_Sample	4.0				LAB	
44099	MJGNC9	LCS01	7440-38-2	Arsenic	2.0	ug/L				S4VEM	1.0	0.061	2.0		1	1.0	ug/L	0.061	0.061	ug/L			Laboratory_Control_Sample	2.0				LAB	
44099	MJGNC9	LCS01	7439-92-1	Lead	2.0	ug/L				S4VEM	1.0	0.021	2.0		1	1.0	ug/L	0.021	0.021	ug/L			Laboratory_Control_Sample	2.0				LAB	
44099	MJGNC9	LCS01	7440-66-6	Zinc	4.7	ug/L				S4VEM	2.0	0.32	4.7		2	2.0	ug/L	0.32	0.32	ug/L			Laboratory_Control_Sample	4.0				LAB	
44099	MJGNC9	LCS01	7440-70-2	Calcium	94.7	ug/L				S4VEM	40.0	16.6	94.7		40	40.0	ug/L	16.6	16.6	ug/L			Laboratory_Control_Sample	80.0				LAB	
44099	MJGNC9	LCS01	7439-95-4	Magnesium	128	ug/L				S4VEM	60.0	14.4	128		60	60.0	ug/L	14.4	14.4	ug/L			Laboratory_Control_Sample	120				LAB	
44099	MJGNC9	LCS01	7723-14-0	Phosphorus	19.6	ug/L				S4VEM	10.0	2.0	19.6		10	10.0	ug/L	2.0	2.0	ug/L			Laboratory_Control_Sample	20.0				LAB	
44099	MJGNC9	LCS01	Hardness	Hardness	33.0	mg/L	U		U	S4VEM	33.0	0.00010	0.76	J	33	33.0	mg/L	0.00010	0.00010	mg/L			Laboratory_Control_Sample	0.0				LAB	
44099	MJGNC9	LCS02	7440-43-9	Cadmium	0.43	ug/L				S4VEM	0.20	0.028	0.43		0.2	0.20	ug/L	0.028	0.028	ug/L			Laboratory_Control_Sample	0.40				LAB	
44099	MJGNC9	PBW01	7440-36-0	Antimony	2.0	ug/L	U		U	S4VEM	2.0	0.35	0.36	J	2	2.0	ug/L	0.35	0.35	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	7440-38-2	Arsenic	1.0	ug/L	U		U	S4VEM	1.0	0.061	1.0	U	1	1.0	ug/L	0.061	0.061	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	7440-43-9	Cadmium	0.20	ug/L	U		U	S4VEM	0.20	0.028	0.20	U	0.2	0.20	ug/L	0.028	0.028	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	7439-92-1	Lead	1.0	ug/L	U		U	S4VEM	1.0	0.021	1.0	U	1	1.0	ug/L	0.021	0.021	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	7440-66-6	Zinc	0.44	ug/L	J		J	S4VEM	2.0	0.32	0.44	J	2	2.0	ug/L	0.32	0.32	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	7440-70-2	Calcium	40.0	ug/L	U		U	S4VEM	40.0	16.6	33.2	J	40	40.0	ug/L	16.6	16.6	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	7439-95-4	Magnesium	60.0	ug/L	U		U	S4VEM	60.0	14.4	60.0	U	60	60.0	ug/L	14.4	14.4	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	7723-14-0	Phosphorus	10.0	ug/L	U		U	S4VEM	10.0	2.0	10.0	U	10	10.0	ug/L	2.0	2.0	ug/L			Method_Blank					LAB	
44099	MJGNC9	PBW01	Hardness	Hardness	0.13	mg/L	J		J	S4VEM	33.0	0.00010	0.13	J	33	33.0	mg/L	0.00010	0.00010	mg/L			Method_Blank					LAB	

Highlighted columns IDEQ QUALIFIER and COMB QUALIFIER entered by TerraGraphics to show all data qualifiers.
 Entire electronic data deliverable is available upon request.

Attachment C
SVL Analytical Results

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	SMPQUAL	ANDATE	ANTIME	CASNUM	ANALYTE	STATE	CONC	UNITS	RLIMIT	MDL	LABQUAL	IDEQ	COMB	SMPDATE	VALDQAL	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPTWTVL	FINLVOL	METHOD	STATLOC	PERCENT RECOVERY	TRUE VALUE	RPD
W403201	W403201	PBW	W403201-BLK1	WATER	LRB	.	1/16/2014	14:29	16887006	CL	Dissolved	0.2 mg/L		0.2	0.04	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	Blank	.	.	.	
W403201	W403201	PBW	W403201-BLK1	WATER	LRB	.	1/16/2014	14:29	14797558	NO3-N	Dissolved	0.05 mg/L		0.05	0.006	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	Blank	.	.	.	
W403201	W403201	PBW	W403201-BLK1	WATER	LRB	.	1/16/2014	14:29	14808798	SO4	Dissolved	0.3 mg/L		0.3	0.02	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	Blank	.	.	.	
W403201	W403201	LCSW	W403201-BS1	WATER	LCM	.	1/16/2014	14:41	16887006	CL	Dissolved	2.9 mg/L		0.2	0.04	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	LCS	96.7	3	.	
W403201	W403201	LCSW	W403201-BS1	WATER	LCM	.	1/16/2014	14:41	14797558	NO3-N	Dissolved	2.04 mg/L		0.05	0.006	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	LCS	102	2	.	
W403201	W403201	LCSW	W403201-BS1	WATER	LCM	.	1/16/2014	14:41	14808798	SO4	Dissolved	10 mg/L		0.3	0.02	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	LCS	100	10	.	
W403201	W403201	(07-EMF-MW-B)011514MS1	W403201-MS1	WATER	LSF	.	1/16/2014	15:15	16887006	CL	Dissolved	7.58 mg/L		0.2	0.04	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-B)011514	102	3	.	
W403201	W403201	(07-EMF-MW-B)011514MS1	W403201-MS1	WATER	LSF	.	1/16/2014	15:15	14797558	NO3-N	Dissolved	2.63 mg/L		0.05	0.006	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-B)011514	106	2	.	
W403201	W403201	(07-EMF-MW-B)011514MS1	W403201-MS1	WATER	LSF	.	1/16/2014	15:15	14808798	SO4	Dissolved	26.6 mg/L		0.3	0.02	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-B)011514	108	10	.	
W403201	W403201	(07-EMF-MW-C)011514MS2	W403201-MS2	WATER	LSF	.	1/16/2014	15:59	16887006	CL	Dissolved	9.63 mg/L		0.2	0.04	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-C)011514	107	3	.	
W403201	W403201	(07-EMF-MW-C)011514MS2	W403201-MS2	WATER	LSF	.	1/16/2014	15:59	14797558	NO3-N	Dissolved	2.19 mg/L		0.05	0.006	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-C)011514	108	2	.	
W403201	W403201	(07-EMF-MW-C)011514MS2	W403201-MS2	WATER	LSF	.	1/16/2014	15:59	14808798	SO4	Dissolved	28.3 mg/L		0.3	0.02	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-C)011514	110	10	.	
W403201	W403201	(07-EMF-MW-B)011514MSD1	W403201-MSD1	WATER	LSFD	.	1/16/2014	15:26	16887006	CL	Dissolved	7.99 mg/L		0.2	0.04	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-B)011514	116	3	5.3	
W403201	W403201	(07-EMF-MW-B)011514MSD1	W403201-MSD1	WATER	LSFD	.	1/16/2014	15:26	14797558	NO3-N	Dissolved	2.74 mg/L		0.05	0.006	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-B)011514	112	2	4.1	
W403201	W403201	(07-EMF-MW-B)011514MSD1	W403201-MSD1	WATER	LSFD	.	1/16/2014	15:26	14808798	SO4	Dissolved	28 mg/L		0.3	0.02	U	U	1/16/2014		1/16/2014	1/24/2014	LOW	0	5	5	EPA 300.0	(07-EMF-MW-B)011514	122	10	5	
W403259	W403259	PBW	W403259-BLK1	WATER	LRB	.	1/20/2014	7:36	471341	(CO3) Alkalinity-CO3	Total	1 mg/L as CaCO3		1	U	U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	Blank	.	.	.	
W403259	W403259	PBW	W403259-BLK1	WATER	LRB	.	1/20/2014	7:36	471341	(HCO3) Alkalinity-HCO3	Total	1 mg/L as CaCO3		1	U	U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	Blank	.	.	.	
W403259	W403259	PBW	W403259-BLK1	WATER	LRB	.	1/20/2014	7:36	471341	(ALK) Alkalinity-Total	Total	1 mg/L as CaCO3		1	U	U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	Blank	.	.	.	
W403259	W403259	LCSW	W403259-BS1	WATER	LCM	.	1/20/2014	7:43	471341	(HCO3) Alkalinity-HCO3	Total	102 mg/L as CaCO3				U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	LCS	103	99.3	.	
W403259	W403259	LCSW	W403259-BS1	WATER	LCM	.	1/20/2014	7:43	471341	(ALK) Alkalinity-Total	Total	102 mg/L as CaCO3				U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	LCS	103	99.3	.	
W403259	W403259	(07-EMF-MW-A)011514DUP1	W403259-DUP1	WATER	LD2	.	1/20/2014	8:03	471341	(CO3) Alkalinity-CO3	Total	1 mg/L as CaCO3		1	U	U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-A)011514	.	.	.	
W403259	W403259	(07-EMF-MW-A)011514DUP1	W403259-DUP1	WATER	LD2	.	1/20/2014	8:03	471341	(HCO3) Alkalinity-HCO3	Total	13.3 mg/L as CaCO3		1	U	U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-A)011514	.	.	6.4	
W403259	W403259	(07-EMF-MW-A)011514DUP1	W403259-DUP1	WATER	LD2	.	1/20/2014	8:03	471341	(ALK) Alkalinity-Total	Total	13.3 mg/L as CaCO3		1	U	U	U	1/20/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-A)011514	.	.	6.4	
W403201	W403201	(07-EMF-MW-A)011514	W403201-01	WATER	FLD	.	1/16/2014	14:52	16887006	CL	Dissolved	7.88 mg/L		0.2	0.04	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.0	(07-EMF-MW-A)011514	.	.	.	
W403201	W403201	(07-EMF-MW-A)011514	W403201-01	WATER	FLD	.	1/16/2014	14:52	14797558	NO3-N	Dissolved	0.05 mg/L		0.05	0.006	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.0	(07-EMF-MW-A)011514	.	.	.	
W403201	W403201	(07-EMF-MW-A)011514	W403201-01	WATER	FLD	.	1/16/2014	18:01	14808798	SO4	Dissolved	60.2 mg/L		1.5	0.1	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.0	(07-EMF-MW-A)011514	.	.	.	
W403259	W403259	(07-EMF-MW-A)011514	W403259-01	WATER	FLD	.	1/20/2014	8:13	471341	(CO3) Alkalinity-CO3	Total	1 mg/L as CaCO3		1	U	U	U	1/15/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-A)011514	.	.	.	
W403259	W403259	(07-EMF-MW-A)011514	W403259-01	WATER	FLD	.	1/20/2014	8:13	471341	(HCO3) Alkalinity-HCO3	Total	12.5 mg/L as CaCO3		1	U	U	U	1/15/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-A)011514	.	.	.	
W403259	W403259	(07-EMF-MW-A)011514	W403259-01	WATER	FLD	.	1/20/2014	8:13	471341	(ALK) Alkalinity-Total	Total	12.5 mg/L as CaCO3		1	U	U	U	1/15/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-A)011514	.	.	.	
W403201	W403201	(07-EMF-MW-B)011514	W403201-02	WATER	FLD	.	1/16/2014	15:04	16887006	CL	Dissolved	4.52 mg/L		0.2	0.04	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.0	(07-EMF-MW-B)011514	.	.	.	
W403201	W403201	(07-EMF-MW-B)011514	W403201-02	WATER	FLD	.	1/16/2014	15:04	14797558	NO3-N	Dissolved	0.504 mg/L		0.05	0.006	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.0	(07-EMF-MW-B)011514	.	.	.	
W403201	W403201	(07-EMF-MW-B)011514	W403201-02	WATER	FLD	.	1/16/2014	15:04	14808798	SO4	Dissolved	15.8 mg/L		0.3	0.02	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.0	(07-EMF-MW-B)011514	.	.	.	
W403259	W403259	(07-EMF-MW-B)011514	W403259-02	WATER	FLD	.	1/20/2014	8:20	471341	(CO3) Alkalinity-CO3	Total	1 mg/L as CaCO3		1	U	U	U	1/15/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-B)011514	.	.	.	
W403259	W403259	(07-EMF-MW-B)011514	W403259-02	WATER	FLD	.	1/20/2014	8:20	471341	(HCO3) Alkalinity-HCO3	Total	18.3 mg/L as CaCO3		1	U	U	U	1/15/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-B)011514	.	.	.	
W403259	W403259	(07-EMF-MW-B)011514	W403259-02	WATER	FLD	.	1/20/2014	8:20	471341	(ALK) Alkalinity-Total	Total	18.3 mg/L as CaCO3		1	U	U	U	1/15/2014		1/20/2014	1/24/2014	LOW	0	50	50	SM 2320B/2310B	(07-EMF-MW-B)011514	.	.	.	
W403201	W403201	(07-EMF-MW-C DEEP)011514	W403201-03	WATER	FLD	.	1/16/2014	15:37	16887006	CL	Dissolved	1.66 mg/L		0.2	0.04	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.0	(07-EMF-MW-C DEEP)011514	.	.	.	
W403201	W403201	(07-EMF-MW-C DEEP)011514	W403201-03	WATER	FLD	.	1/16/2014	15:37	14797558	NO3-N	Dissolved	0.05 mg/L		0.05	0.006	U	U	1/15/2014		1/16/2014	1/24/2014	LOW	0	5	5.05	EPA 300.					