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TECHNICAL MEMORANDUM

To: Don Carpenter, IDEQ, Boise

From: Robin Nimmer, TerraGraphics, Moscow
Don Vernon, TerraGraphics, Boise

Date: March 20, 2012

Subject: First Groundwater Sampling Event of 2012 at East Mission Flats Repository

Job Code: 2010-7170-20

This technical memorandum summarizes the data collected during the first groundwater sampling event in 2012 at the East Mission Flats (EMF) Repository. Groundwater sampling activities were conducted on January 25 and 26, 2012.

1 General

The EMF site is located approximately two miles west of Cataldo, Idaho east of Exit 39 off of Interstate-90 (Figure 1). There are a total of eight groundwater wells at EMF; 07-EMF-MW-A, 07-EMF-MW-B, 07-EMF-MW-C, 09-EMF-MW-C-Deep, 07-EMF-MW-D, 08-EMF-MW-E, 08-EMF-MW-F, and the decontamination well (Decon Well). Samples were collected at all sites with the exception of Decon Well. At the time of sampling, Decon Well was not in operation due to winterization. Guidelines for groundwater sampling activities were set forth 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 EMF SAP/QAPP. All groundwater monitoring wells were sampled with dedicated low-flow pumps.

Field parameters measured include pH, conductivity, temperature, dissolved oxygen (DO), and oxidation-reduction potential (ORP). Field parameters were recorded on field sheets (Appendix A) and are listed in Table 1. Depth to water was also measured in the monitoring wells. Figure 1 depicts groundwater elevation contours based on measurements from all EMF monitoring wells sampled during this event.

Samples were analyzed by two different laboratories as guided by the EMF SAP/QAPP (TerraGraphics, 2010). Samples were analyzed through the Contract Laboratory Program (CLP) lab for the following constituents: dissolved calcium (Ca) and magnesium (Mg) by method USEPA 200.7 (USEPA, 1994b) via ISM01.2 (USEPA, 2010a); dissolved potassium (K) and sodium (Na) by method USEPA 200.7 via ISM01.2; total and dissolved antimony (Sb), arsenic (As), cadmium (Cd), lead (Pb), and zinc (Zn) by method USEPA 200.8 (USEPA, 1994a) via

ISM01.2; total hardness by method SM2340B (SM Committee, 1997b) via ISM01.2; and total phosphorus (P) by method USEPA 200.7 via ISM01.2. These data are included as Appendix B and meet the Stage 4 verification and validation based on *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (USEPA, 2010b), the *USEPA Guidance on Environmental Data Verification and Data Validation* (USEPA, 2002), and the *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (USEPA, 2009). The USEPA generated data validation reports are available upon request. Samples were also analyzed at SVL Analytical, Inc. (SVL) in Kellogg, Idaho for the following constituents: dissolved chloride (Cl), nitrate as nitrogen (NO_3-N), and sulfate (SO_4) by USEPA 300.0 (USEPA, 1993) and total alkalinity by SM2320B (Standard Committee, 1997a). This report focuses on the dissolved metal concentrations. The SVL Analytical data report is included as Appendix C.

2 Groundwater Quality Results

Cumulative groundwater sampling results for dissolved metals are summarized in Table 2; the following discussion focuses on the January 2012 analysis results. Dissolved antimony and dissolved lead concentrations were below the reporting limits at all the locations sampled. Dissolved arsenic concentrations were detected above the reporting limit at all locations sampled. The dissolved arsenic data are J qualified (qualified as an estimate) because dissolved arsenic was detected in the field blank collected at the site. Field blanks are collected to provide information about contaminants that may be introduced during sample collection, storage, and transport. Field blanks are collected by pouring deionized water directly into a new filter apparatus and then into new sample bottles. Sample data are J qualified if the concentration of the sample is less than ten times the field blank concentration. The sample concentrations of dissolved arsenic are similar to the concentration detected in the field blank. Due to the accuracy of the analytical method, it is not possible to quantify a difference in concentration between the field blank and the well samples. Based on the arsenic concentration measured in the field blank, reported sample results do not provide any indication of detectable arsenic concentrations in the groundwater. Dissolved cadmium was detected at MW-A, MW-C, MW-D, and MW-F with a maximum concentration of 0.0049 mg/L in MW-C, which is below the regulatory threshold. Dissolved zinc was detected above the reporting limit at all locations sampled. The highest zinc concentration was 3.100 mg/L measured at MW-F, which is below the regulatory threshold.

3 Monitoring Well and Cataldo River Stage Hydrographs

Currently, dataloggers set to record water levels are installed in five groundwater monitoring wells at EMF (MW-A, -B, -C, -C Deep, and -D). The dataloggers in MW-B and MW-D were installed on February 4, 2009. The dataloggers in MW-A and -C were installed on December 14, 2009, and the datalogger in MW-C Deep was installed on February 23, 2010. Dataloggers are downloaded on a quarterly basis. Water level elevations recorded since April 2011 are provided in the attached hydrograph (Figure 2). River stage data for U.S. Geological Survey (USGS) Gage Station 12413500 on the Coeur d'Alene River near Cataldo, Idaho are included on the hydrograph for comparison (http://waterdata.usgs.gov/id/nwis/uv/?site_no=12413500). Figure 2

shows the hydrographs of the water levels recorded at the five monitoring wells and from the USGS river gage at Cataldo beginning April 1, 2011.

Two dataloggers have been installed at the EMF site to record standing water levels in low areas prone to seasonal inundation. The surface water monitoring locations are identified on Figure 1 as LL-1 and LL-2. The dataloggers were downloaded as part of the sampling activities. There was no standing water at LL-1 or LL-2 during the 2012 first quarter monitoring period.

4 References

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.

Standard Methods (SM) Committee, 1997a. Standard Method 2320B Alkalinity: Titration Method.

SM Committee, 1997b. Standard Method 2340B Hardness (20th edition): Hardness by Calculation.

United States Environmental Protection Agency (USEPA), 1993. Method 300.0: Determination of Inorganic Anions by Ion Chromotography.

USEPA, 1994a. Method 200.8: Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma-Mass Spectrometry, Revision 5.4.

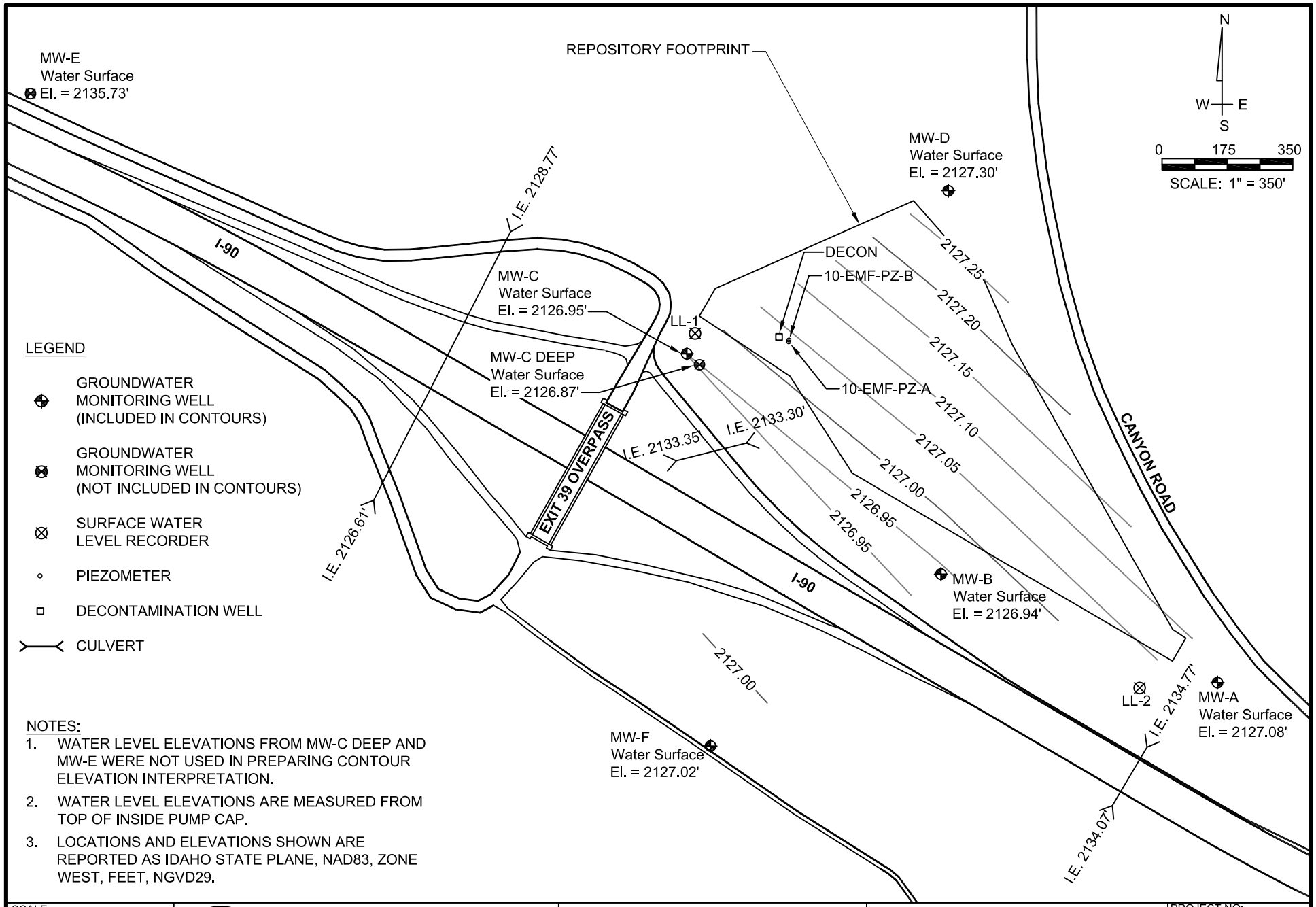
USEPA, 1994b. Method 200.7: Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry, Revision 4.4.

USEPA, 2002. USEPA Guidance on Environmental Data Verification and Data Validation. USEPA QA/G-8; November.

USEPA, 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. OSWER No. 9200.1-85, EPA 540-R-08-005 prepared by the Office of Solid Waste and Emergency Response; January.

USEPA, 2010a. USEPA Contract Laboratory Program Inorganic Analysis Statement of Work for Superfund Methods, ISM01.2; January.

USEPA, 2010b. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, OSWER 9240.1-51, EPA 540-R-10-011; January.



M:\Basin\Basin Repositories\EMF Design\Drawings\EMF GROUNDWATER\EMF GW_Jan2012_030112.dwg 3/1/2012

SCALE: 1" = 350' (8.5x11 PRINT)	TerraGraphics Environmental Engineering, Inc.	EAST MISSION FLATS	FIGURE 1	PROJECT NO: 2010-2F-7170-2
DRAWN BY: C.HALEY		CATALDO, IDAHO	JANUARY 2012 GROUNDWATER LEVEL ELEVATIONS AND CONTOURS	DATE: 3/1/2012
ENGINEER: S.BARKER				FILE NAME: emf gw_jan2012_030112.dwg

Figure 2. Water Levels at EMF Repository Monitoring Wells & Surface Compared to River Stage at Cataldo

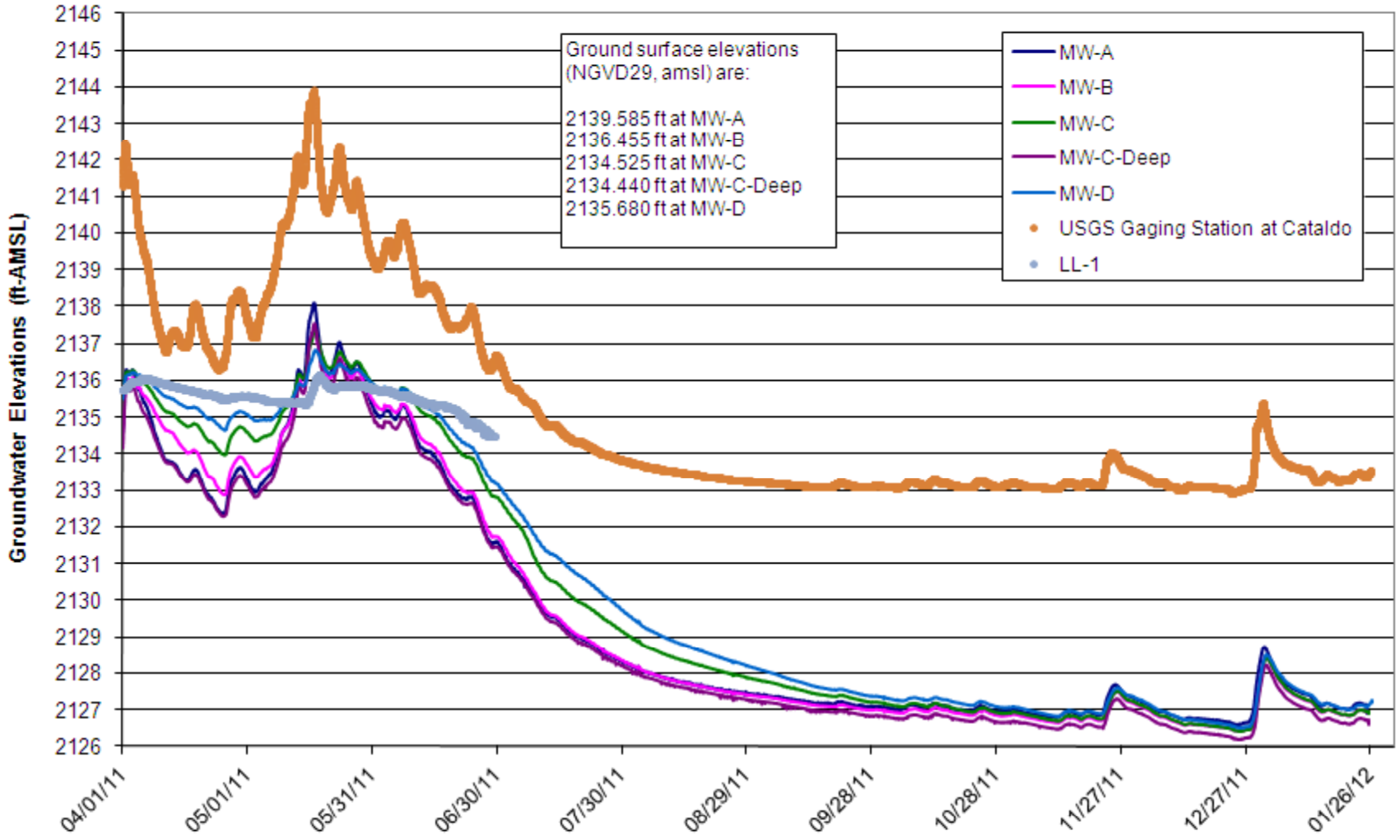


Table 1
Field Parameter Data
East Mission Flats Repository

Well	Date	Parameter				
		pH	Conductivity[1]	Temperature[2]	DO[3]	ORP[4]
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	1.41***R***[5]	136
	25-Jan-12	4.92	239	8.54	0.30	178
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***[6]	112
	25-Jan-12	5.49	85	11.53	0.47	94

Well	Date	Parameter				
		pH	Conductivity[1]	Temperature[2]	DO[3]	ORP[4]
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[7]	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	0.11J	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
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
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
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

Well	Date	Parameter				
		pH	Conductivity[1]	Temperature[2]	DO[3]	ORP[4]
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
Decon	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

Notes:

1. Conductivity as measured in microSiemens per centimeter
2. Temperature in degrees Celsius
3. DO = Dissolved oxygen, in milligrams per liter
4. ORP = Oxidation reduction potential, in millivolts
5. R = Rejected; correct stabilization criteria was not correctly entered into the meter to achieve 3 stable readings per the EMF SAP/QAPP.

6. J = Estimated; May 2010 DO in mg/l was not recorded on field sheet. The reported value was estimated using the nomograph in Horne and Goldman (1994) based on the observed water temperature and DO% saturation. October 2011 DO estimated; DO stabilization criteria was not correctly entered into meter to achieve 3 stable readings per the EMF SAP/QAPP.

7. NS = Not sampled; see text for explanation.

Table 2
Groundwater Monitoring Results
Dissolved Metals
East Mission Flats Repository

All results in milligrams per liter (mg/L)

Well No.	Sample Date	Constituents				
		Antimony	Arsenic	Cadmium	Lead	Zinc
MW-A	11 Dec 07	ND[1]	ND	0.000578***J***	ND	0.347***J***
	25 Feb 08	ND	ND	0.0012	ND	1.71***J***
	3-Jun-08	ND	ND	0.000763	ND	0.582
	19-Aug-08	ND	ND	0.000321	ND	0.683
	10-Nov-08	ND	ND	ND	ND	0.353
	4-Feb-09	ND	ND	0.000777	ND	0.898
	7-May-09	ND	ND	0.000382	ND	0.753
	10-Aug-09	ND	ND	0.000204	ND	0.558
	11-Nov-09	ND	ND	ND	ND	0.368
	25-Feb-10	ND	ND	0.000208	ND	0.657
	19-May-10	ND	ND	0.000225	ND	0.568
	25-Aug-10	ND	ND	0.000210	ND	0.580
	16-Nov-10	ND	ND	ND	ND	0.544***J***
	10-Feb-11	ND	ND	0.00039	ND	1.220***J***
	6-Jul-11	ND	0.0073***J***	0.00063	ND	1.380
	24-Oct-11	ND	ND	ND	ND	0.804
	25-Jan-12	ND	0.0074***J***	0.00032	ND	1.130
MW-B	10 Dec 07	ND	ND	ND	ND	0.0243***J***
	25 Feb 08	ND	ND	ND	ND	0.0198***J***
	3-Jun-08	ND	ND	ND	ND	0.0208
	19-Aug-08	ND	ND	ND	ND	0.0244
	10-Nov-08	ND	ND	ND	ND	0.0197
	4-Feb-09	ND	ND	ND	ND	0.021
	7-May-09	ND	ND	ND	ND	0.0168
	10-Aug-09	ND	ND	ND	ND	0.016
	11-Nov-09	ND	ND	ND	ND	0.0264
	25-Feb-10	ND	ND	ND	ND	0.0153
	19-May-10	ND	ND	ND	ND	0.0157
	25-Aug-10	ND	ND	ND	ND	0.0157
	16-Nov-10	ND	ND	ND	ND	0.0187***J***
	10-Feb-11	ND	ND	ND	ND	0.0091***J***
	6-Jul-11	ND	0.0077***J***	ND	ND	0.0126
	24-Oct-11	ND	ND	ND	ND	0.0148***J***
	25-Jan-12	ND	0.0073***J***	ND	ND	0.018

Well No.	Sample Date	Constituents				
		Antimony	Arsenic	Cadmium	Lead	Zinc
MW-C	10 Dec 07	ND	ND	0.0013***J***	ND	1.45***J***
	25 Feb 08	ND	ND	0.00318	ND	2.24***J***
	3-Jun-08	NS[2]	NS	NS	NS	NS
	19-Aug-08	ND	ND	0.00111	ND	1.34
	10-Nov-08	ND	ND	0.000522	ND	1.57
	3-Feb-09	ND	ND	0.00354	ND	1.67
	7-May-09	NS	NS	NS	NS	NS
	10-Aug-09	ND	ND	0.00229	ND	1.45
	11-Nov-09	ND	ND	0.00144	ND	2.03
	25-Feb-10	ND	ND	0.00326	ND	2.02
	19-May-10	ND	ND	0.00346	ND	2.00
	25-Aug-10	ND	ND	0.00364	ND	1.86
	16-Nov-10	ND	ND	0.0029	ND	1.930***J***
	10-Feb-11	NS	NS	NS	NS	NS
	6-Jul-11	NS	NS	NS	NS	NS
	24-Oct-11	ND	ND	0.00072	ND	1.360
	25-Jan-12	ND	0.0074***J***	0.0049	ND	1.710
MW-C Deep	25-Feb-10	ND	ND	ND	ND	0.0113
	19-May-10	ND	ND	ND	ND	ND
	25-Aug-10	ND	ND	ND	ND	0.0317
	16-Nov-10	ND	ND	ND	ND	0.0216***J***
	10-Feb-11	NS	NS	NS	NS	NS
	6-Jul-11	NS	NS	NS	NS	NS
	24-Oct-11	ND	ND	ND	ND	0.0167
	25-Jan-12	ND	0.0075***J***	ND	ND	0.0191
MW-D	10 Dec 07	ND	ND	ND	ND	0.0326***J***
	25 Feb 08	ND	ND	ND	ND	0.0285***J***
	3-Jun-08	NS	NS	NS	NS	NS
	19-Aug-08	ND	ND	ND	ND	1.32
	10-Nov-08	ND	ND	ND	ND	0.0794
	3-Feb-09	ND	ND	ND	ND	0.0531
	7-May-09	NS	NS	NS	NS	NS
	11-Aug-09	ND	ND	ND	ND	0.0918
	11-Nov-09	ND	ND	ND	ND	0.103
	25-Feb-10	ND	ND	ND	ND	0.0352
	19-May-10	ND	ND	ND	ND	0.105
	25-Aug-10	ND	ND	ND	ND	0.109
	16-Nov-10	ND	ND	ND	ND	0.0563***J***
	10-Feb-11	ND	ND	ND	ND	0.127***J***
	6-Jul-11	NS	NS	NS	NS	NS
	25-Oct-11	ND	ND	ND	ND	0.0395
	26-Jan-12	ND	0.0079***J***	0.00016***J***	ND	0.0584
MW-E	10 Nov 08	ND	0.0148	ND	ND	0.0141
	3-Feb-09	ND	ND	ND	ND	ND
	7-May-09	ND	0.0035	ND	ND	0.00889
	11-Aug-09	ND	0.0195	ND	ND	0.00848
	11-Nov-09	ND	0.0232	ND	ND	0.00671
	25-Feb-10	ND	ND	ND	ND	0.00599
	19-May-10	ND	0.00447	ND	ND	0.00633
	25-Aug-10	ND	0.0172	ND	ND	0.00687
	16-Nov-10	ND	0.0177	ND	ND	0.0069***J***
	10-Feb-11	ND	ND	ND	ND	ND
	6-Jul-11	ND	0.0074***J***	ND	ND	0.0048***J***
	24-Oct-11	ND	0.020	ND	ND	ND
	26-Jan-12	ND	0.0069***J***	ND	ND	0.0051

Well No.	Sample Date	Constituents				
		Antimony	Arsenic	Cadmium	Lead	Zinc
MW-F	11-Nov-08	ND	ND	0.0002	ND	1.58
	3-Feb-09	ND	ND	0.000304	ND	1.16
	7-May-09	ND	ND	0.000258	ND	1.32
	10-Aug-09	ND	ND	0.00023	ND	1.12
	11-Nov-09	ND	ND	0.000464	ND	2.53
	25-Feb-10	ND	ND	0.000947	ND	3.82
	19-May-10	ND	ND	0.00132	ND	4.47
	25-Aug-10	ND	ND	0.000436	ND	1.93
	16-Nov-10	ND	ND	ND	ND	3.370***J***
	10-Feb-11	ND	ND	0.00045	ND	1.840***J***
	6-Jul-11	ND	0.0056***J***	ND	ND	0.976
	25-Oct-11	ND	ND	0.00031	ND	1.690
	26-Jan-12	ND	0.0041***J***	0.00094	ND	3.100
Decon	16-Nov-10	ND	ND	ND	ND	0.504***J***
	10-Feb-11	NS	NS	NS	NS	NS
	6-Jul-11	ND	0.0068***J***	ND	ND	0.407
	25-Oct-11	ND	ND	ND	ND	0.449
	26-Jan-12	NS	NS	NS	NS	NS
Reporting Limit		0.003	0.003	0.0002	0.003	0.0053
Regulatory Threshold		0.006[4]	0.01[4]	0.005[4]	0.015[4]	5.0[5]

Notes

1. ND - Not detected above method reporting limit
2. NS - Not sampled; see text for explanation.
3. Reporting Limit (RL) baseline provided; however, RL is higher if a sample dilution is necessary
4. MCL - Maximum Contaminant Level
5. NSDWR - National Secondary Drinking Water Regulation

J - Reported concentration an estimate based on data quality review

= Value exceeds the regulatory threshold