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RYAN FLYNN
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November 19, 2014

Karen Agogino, P.E.
U.S. Department of Energy
Sandia Site Office
P.O Box 5400 MS 0184
Albuquerque, New Mexico 87185-5400

**Subject: Groundwater Monitoring at Sandia National Laboratories/New Mexico
Mixed Waste Landfill: MWL-MW4 Metals Study Conducted by New Mexico
Environment Department DOE Oversight Bureau for FFY 2014 Q-4**

Ms. Agogino:

This letter transmits the subject report for your review. The report shows groundwater data results collected by the DOE Oversight Bureau during September 2014.

The Oversight Bureau collected groundwater samples from Mixed Waste Landfill groundwater monitoring well MWL-MW4. The sampling conducted was part of a Sandia National Laboratories/New Mexico metals study that included multiple purging and sampling events. The Oversight Bureau collected a total of six (6) split samples plus a duplicate over a three-week period using standard Sandia sampling procedures and equipment. Samples were submitted for analysis to an independent analytical laboratory for total and dissolved Target Analyte List (TAL) metals only.

All groundwater samples were collected and analyzed in accordance with U.S. Environmental Protection Agency (EPA) protocols. Data results are compared to applicable Maximum Contaminant Levels (MCLs) established by the U.S. EPA National Primary Drinking Water Regulations (40 CFR 141), National Primary Drinking Water Standards, EPA, July 2002.

Sample results for total and dissolved metals are presented in Table 1 and Table 2, respectively. All metal concentrations were detected below established regulatory standards. Results for total chromium, cobalt, copper, iron and nickel are plotted in Figures 1 to 5 to show their concentrations during the purging and sampling process. Initial results from the first samples

collected on September 9, 2014 show higher concentrations. Subsequent samples collected after the initial sampling event began to slowly reduce in concentration over the 3-week purging process. Values are either slightly above the method detection limit (MDL) or non-detected.

The enclosed monitoring results were provided to DOE in draft form on October 8, 2014, for 30-day comment and review. The enclosed final monitoring results are provided to DOE, the State of New Mexico and federal agencies, the NMED website, and interested members of the public. If you have any questions, or if you would like copies of the complete data set, please contact me at (505)845-5933.

Sincerely,



Susan A. Lucas Kamat
Staff Manager
Sandia Oversight Section

Enclosure: (1) Table-1 Total TAL Metals plus Uranium Results
 (2) Table-2 Dissolved TAL Metals plus Uranium Results
 (3) Figure 1. Total Chromium Results
 (4) Figure 2. Total Cobalt Results
 (5) Figure 3. Total Copper Results
 (6) Figure 4. Total Iron Results
 (7) Figure 5. Total Nickel Results

cc: John Weckerle, DOE/SSO
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 Tim Jackson, SNL/NM Groundwater
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File: SGE42.Groundwater Monitoring. MWL. FFY 2014 Q-4

Table-1 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Total TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Aluminum MCL NE	0.017	0.05	0.017	U	SW-846:6020
9/16/2014		0.017	0.05	0.017	U	
9/18/2014		0.017	0.05	0.017	U	
9/22/2014		0.017	0.05	0.017	U	
9/25/2014		0.017	0.05	0.017	U	
9/29/2014		0.017	0.05	0.017	U	
9/29/2014		0.017	0.05	0.017	U	
9/9/2014	Antimony MCL 0.006 mg/L	0.00023	0.0003	0.00017	J	
9/16/2014		0.00017	0.0003	0.00017	U	
9/18/2014		0.00051	0.0003	0.00017		
9/22/2014		0.00017	0.0003	0.00017	U	
9/25/2014		0.00017	0.0003	0.00017	U	
9/29/2014		0.00017	0.0003	0.00017	U	
9/29/2014		0.00017	0.0003	0.00017	U	
9/9/2014	Arsenic MCL 0.01 mg/L	0.0032	0.002	0.00025		
9/16/2014		0.002	0.002	0.00025		
9/18/2014		0.0026	0.002	0.00025		
9/22/2014		0.0024	0.002	0.00025		
9/25/2014		0.003	0.002	0.00025		
9/29/2014		0.0029	0.002	0.00025		
9/29/2014		0.0029	0.002	0.00025		
9/9/2014	Barium MCL 2 mg/L	0.1	0.001	0.00041		
9/16/2014		0.11	0.001	0.00041		
9/18/2014		0.11	0.001	0.00041		
9/22/2014		0.11	0.001	0.00041		
9/25/2014		0.11	0.001	0.00041		
9/29/2014		0.11	0.001	0.00041		
9/29/2014		0.11	0.001	0.00041		
9/9/2014	Beryllium MCL 0.004 mg/L	0.00013	0.0005	0.00013	U	
9/16/2014		0.00013	0.0005	0.00013	U	
9/18/2014		0.00013	0.0005	0.00013	U	
9/22/2014		0.00013	0.0005	0.00013	U	
9/25/2014		0.00013	0.0005	0.00013	U	
9/29/2014		0.00013	0.0005	0.00013	U	
9/29/2014		0.00013	0.0005	0.00013	U	

J = the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL).

MCL NE = Maximum Contaminant Level Not Established

U = the analyte was analyzed for but not detected

Table-1 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Total TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Cadmium MCL 0.005 mg/L	0.00012	0.0003	0.00012	U	SW-846:6020
9/16/2014		0.00012	0.0003	0.00012	U	
9/18/2014		0.00012	0.0003	0.00012	U	
9/22/2014		0.00012	0.0003	0.00012	U	
9/25/2014		0.00012	0.0003	0.00012	U	
9/29/2014		0.00012	0.0003	0.00012	U	
9/29/2014		0.00012	0.0003	0.00012	U	
9/9/2014	Calcium MCL NE	56	1	0.09		
9/16/2014		58	1	0.09		
9/18/2014		56	1	0.09		
9/22/2014		59	1	0.09		
9/25/2014		61	1	0.09		
9/29/2014		57	1	0.09		
9/29/2014		61	1	0.09		
9/9/2014	Chromium MCL 0.1 mg/L	0.059	0.01	0.0013		
9/16/2014		0.0071	0.01	0.0013	J	
9/18/2014		0.022	0.01	0.0013		
9/22/2014		0.022	0.01	0.0013		
9/25/2014		0.0058	0.01	0.0013	J	
9/29/2014		0.0054	0.01	0.0013	J	
9/29/2014		0.0042	0.01	0.0013	J	
9/9/2014	Cobalt MCL NE	0.00064	0.001	0.00017	J	
9/16/2014		0.00017	0.001	0.00017	U	
9/18/2014		0.00023	0.001	0.00017	J	
9/22/2014		0.00023	0.001	0.00017	J	
9/25/2014		0.00017	0.001	0.00017	U	
9/29/2014		0.00017	0.001	0.00017	U	
9/29/2014		0.00017	0.001	0.00017	U	
9/9/2014	Copper MCL NE	0.0052	0.01	0.0028	J	
9/16/2014		0.0028	0.01	0.0028	U	
9/18/2014		0.0028	0.01	0.0028	U	
9/22/2014		0.0028	0.01	0.0028	U	
9/25/2014		0.0028	0.01	0.0028	U	
9/29/2014		0.0028	0.01	0.0028	U	
9/29/2014		0.0028	0.01	0.0028	U	

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Table-1 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Total TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Iron MCL NE	0.49	0.1	0.016		SW-846:6020
9/16/2014		0.058	0.1	0.016	J	
9/18/2014		0.14	0.1	0.016		
9/22/2014		0.12	0.1	0.016		
9/25/2014		0.081	0.1	0.016	J	
9/29/2014		0.067	0.1	0.016	J	
9/29/2014		0.072	0.1	0.016	J	
9/9/2014	Lead MCL NE	0.00025	0.0005	0.00025	U	
9/16/2014		0.00025	0.0005	0.00025	U	
9/18/2014		0.00025	0.0005	0.00025	U	
9/22/2014		0.00025	0.0005	0.00025	U	
9/25/2014		0.00025	0.0005	0.00025	U	
9/29/2014		0.00025	0.0005	0.00025	U	
9/29/2014		0.00025	0.0005	0.00025	U	
9/9/2014	Magnesium MCL NE	20	0.1	0.039		
9/16/2014		21	0.1	0.039		
9/18/2014		20	0.1	0.039		
9/22/2014		22	0.1	0.039		
9/25/2014		22	0.1	0.039		
9/29/2014		21	0.1	0.039		
9/29/2014		22	0.1	0.039		
9/9/2014	Manganese MCL NE	0.016	0.002	0.00052		
9/16/2014		0.011	0.002	0.00052		
9/18/2014		0.015	0.002	0.00052		
9/22/2014		0.009	0.002	0.00052		
9/25/2014		0.014	0.002	0.00052		
9/29/2014		0.0076	0.002	0.00052		
9/29/2014		0.0083	0.002	0.00052		
9/9/2014	Mercury MCL 0.002 mg/L	0.00006	0.0001	0.00006	U	SW-846:7470A
9/16/2014		0.00006	0.0001	0.00006	U	
9/18/2014		0.00006	0.0001	0.00006	U	
9/22/2014		0.00006	0.0001	0.00006	U	
9/25/2014		0.00006	0.0001	0.00006	U	
9/29/2014		0.00006	0.0001	0.00006	U	
9/29/2014		0.00006	0.0001	0.00006	U	

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Table-1 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Total TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Nickel MCL NE	0.21	0.005	0.0014		SW-846:6020
9/16/2014		0.056	0.005	0.0014		
9/18/2014		0.047	0.005	0.0014		
9/22/2014		0.076	0.005	0.0014		
9/25/2014		0.038	0.005	0.0014		
9/29/2014		0.059	0.005	0.0014		
9/29/2014		0.061	0.005	0.0014		
9/9/2014	Potassium MCL NE	5	1	0.16		
9/16/2014		5.2	1	0.16		
9/18/2014		5	1	0.16		
9/22/2014		5	1	0.16		
9/25/2014		5.4	1	0.16		
9/29/2014		4.9	1	0.16		
9/29/2014		5.3	1	0.16		
9/9/2014	Selenium MCL 0.05 mg/L	0.00054	0.001	0.00054	U	
9/16/2014		0.00096	0.001	0.00054	J	
9/18/2014		0.0008	0.001	0.00054	J	
9/22/2014		0.00073	0.001	0.00054	J	
9/25/2014		0.0016	0.001	0.00054		
9/29/2014		0.00068	0.001	0.00054	J	
9/29/2014		0.00073	0.001	0.00054	J	
9/9/2014	Silver MCL NE	0.0006	0.0001	0.00004		
9/16/2014		0.00016	0.0001	0.00004		
9/18/2014		0.00008	0.0001	0.00004	J	
9/22/2014		0.00049	0.0001	0.00004		
9/25/2014		0.00022	0.0001	0.00004		
9/29/2014		0.00004	0.0001	0.00004	J	
9/29/2014		0.00055	0.0001	0.00004		
9/9/2014	Sodium MCL NE	46	1	0.24		
9/16/2014		48	1	0.24		
9/18/2014		47	1	0.24		
9/22/2014		48	1	0.24		
9/25/2014		50	1	0.24		
9/29/2014		48	1	0.24		
9/29/2014		49	1	0.24		

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Table-1 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Total TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Thallium MCL 0.002 mg/L	0.000042	0.0002	0.000042	U	SW-846:6020
9/16/2014		0.000042	0.0002	0.000042	U	
9/18/2014		0.000042	0.0002	0.000042	U	
9/22/2014		0.000042	0.0002	0.000042	U	
9/25/2014		0.000042	0.0002	0.000042	U	
9/29/2014		0.000042	0.0002	0.000042	U	
9/29/2014		0.000042	0.0002	0.000042	U	
9/9/2014	Uranium MCL 0.03 mg/L	0.0049	0.0001	0.000088		
9/16/2014		0.0059	0.0001	0.000088		
9/18/2014		0.006	0.0001	0.000088		
9/22/2014		0.0062	0.0001	0.000088		
9/25/2014		0.0065	0.0001	0.000088		
9/29/2014		0.006	0.0001	0.000088		
9/29/2014		0.0067	0.0001	0.000088		
9/9/2014	Vanadium MCL NE	0.0073	0.001	0.00052		
9/16/2014		0.0082	0.001	0.00052		
9/18/2014		0.0081	0.001	0.00052		
9/22/2014		0.008	0.001	0.00052		
9/25/2014		0.0089	0.001	0.00052		
9/29/2014		0.0079	0.001	0.00052		
9/29/2014		0.0082	0.001	0.00052		
9/9/2014	Zinc MCL NE	0.053	0.02	0.0068		
9/16/2014		0.027	0.02	0.0068		
9/18/2014		0.033	0.02	0.0068		
9/22/2014		0.032	0.02	0.0068		
9/25/2014		0.022	0.02	0.0068		
9/29/2014		0.03	0.02	0.0068		
9/29/2014		0.037	0.02	0.0068		

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Table-2 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Dissolved TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Aluminum MCL NE	0.017	0.05	0.017	U	SW-846:6020
9/16/2014		0.017	0.05	0.017	U	
9/18/2014		0.017	0.05	0.017	U	
9/22/2014		0.017	0.05	0.017	U	
9/25/2014		0.017	0.05	0.017	U	
9/29/2014		0.017	0.05	0.017	U	
9/29/2014		0.017	0.05	0.017	U	
9/9/2014	Antimony MCL 0.006 mg/L	0.00017	0.0003	0.00017	U	
9/16/2014		0.00017	0.0003	0.00017	U	
9/18/2014		0.00017	0.0003	0.00017	U	
9/22/2014		0.00017	0.0003	0.00017	U	
9/25/2014		0.00017	0.0003	0.00017	U	
9/29/2014		0.00017	0.0003	0.00017	U	
9/29/2014		0.00019	0.0003	0.00017	J	
9/9/2014	Arsenic MCL 0.01 mg/L	0.003	0.002	0.00025		
9/16/2014		0.0028	0.002	0.00025		
9/18/2014		0.0024	0.002	0.00025		
9/22/2014		0.0031	0.002	0.00025		
9/25/2014		0.0026	0.002	0.00025		
9/29/2014		0.0024	0.002	0.00025		
9/29/2014		0.0024	0.002	0.00025		
9/9/2014	Barium MCL 2 mg/L	0.1	0.001	0.00041		
9/16/2014		0.11	0.001	0.00041		
9/18/2014		0.11	0.001	0.00041		
9/22/2014		0.11	0.001	0.00041		
9/25/2014		0.11	0.001	0.00041		
9/29/2014		0.1	0.001	0.00041		
9/29/2014		0.11	0.001	0.00041		
9/9/2014	Beryllium MCL 0.004 mg/L	0.00013	0.0005	0.00013	U	
9/16/2014		0.00013	0.0005	0.00013	U	
9/18/2014		0.00013	0.0005	0.00013	U	
9/22/2014		0.00013	0.0005	0.00013	U	
9/25/2014		0.00013	0.0005	0.00013	U	
9/29/2014		0.00013	0.0005	0.00013	U	
9/29/2014		0.00013	0.0005	0.00013	U	

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Table-2 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Dissolved TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Cadmium MCL 0.005 mg/L	0.00012	0.0003	0.00012	U	SW-846:6020
9/16/2014		0.00012	0.0003	0.00012	U	
9/18/2014		0.00012	0.0003	0.00012	U	
9/22/2014		0.00012	0.0003	0.00012	U	
9/25/2014		0.00012	0.0003	0.00012	U	
9/29/2014		0.00012	0.0003	0.00012	U	
9/29/2014		0.00012	0.0003	0.00012	U	
9/9/2014	Calcium MCL NE	61	1	0.09		
9/16/2014		58	1	0.09		
9/18/2014		58	1	0.09		
9/22/2014		57	1	0.09		
9/25/2014		58	1	0.09		
9/29/2014		58	1	0.09		
9/29/2014		58	1	0.09		
9/9/2014	Chromium MCL 0.1 mg/L	0.0013	0.01	0.0013	U	
9/16/2014		0.0013	0.01	0.0013	U	
9/18/2014		0.0013	0.01	0.0013	U	
9/22/2014		0.0013	0.01	0.0013	U	
9/25/2014		0.0013	0.01	0.0013	U	
9/29/2014		0.0017	0.01	0.0013	J	
9/29/2014		0.0032	0.01	0.0013	J	
9/9/2014	Cobalt MCL NE	0.0002	0.001	0.00017	J	
9/16/2014		0.00017	0.001	0.00017	U	
9/18/2014		0.00017	0.001	0.00017	U	
9/22/2014		0.00017	0.001	0.00017	U	
9/25/2014		0.00017	0.001	0.00017	U	
9/29/2014		0.00017	0.001	0.00017	U	
9/29/2014		0.00017	0.001	0.00017	U	
9/9/2014	Copper MCL NE	0.0028	0.01	0.0028	U	
9/16/2014		0.0028	0.01	0.0028	U	
9/18/2014		0.0028	0.01	0.0028	U	
9/22/2014		0.0028	0.01	0.0028	U	
9/25/2014		0.0028	0.01	0.0028	U	
9/29/2014		0.0028	0.01	0.0028	U	
9/29/2014		0.0028	0.01	0.0028	U	

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Table-2 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Dissolved TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Iron MCL NE	0.016	0.1	0.016	U	SW-846:6020
9/16/2014		0.016	0.1	0.016	U	
9/18/2014		0.016	0.1	0.016	U	
9/22/2014		0.016	0.1	0.016	U	
9/25/2014		0.016	0.1	0.016	U	
9/29/2014		0.016	0.1	0.016	U	
9/29/2014		0.016	0.1	0.016	U	
9/9/2014	Lead MCL NE	0.00025	0.0005	0.00025	U	
9/16/2014		0.00025	0.0005	0.00025	U	
9/18/2014		0.00025	0.0005	0.00025	U	
9/22/2014		0.00025	0.0005	0.00025	U	
9/25/2014		0.00025	0.0005	0.00025	U	
9/29/2014		0.00025	0.0005	0.00025	U	
9/29/2014		0.00025	0.0005	0.00025	U	
9/9/2014	Magnesium MCL NE	22	0.1	0.039		
9/16/2014		21	0.1	0.039		
9/18/2014		21	0.1	0.039		
9/22/2014		21	0.1	0.039		
9/25/2014		22	0.1	0.039		
9/29/2014		21	0.1	0.039		
9/29/2014		21	0.1	0.039		
9/9/2014	Manganese MCL NE	0.0049	0.002	0.00052		
9/16/2014		0.011	0.002	0.00052		
9/18/2014		0.013	0.002	0.00052		
9/22/2014		0.0076	0.002	0.00052		
9/25/2014		0.014	0.002	0.00052		
9/29/2014		0.0084	0.002	0.00052		
9/29/2014		0.0081	0.002	0.00052		
9/9/2014	Mercury MCL 0.002 mg/L	0.00006	0.0001	0.00006	U	SW-846:7470A
9/16/2014		0.00006	0.0001	0.00006	U	
9/18/2014		0.00006	0.0001	0.00006	U	
9/22/2014		0.00006	0.0001	0.00006	U	
9/25/2014		0.00006	0.0001	0.00006	U	
9/29/2014		0.00006	0.0001	0.00006	U	
9/29/2014		0.00006	0.0001	0.00006	U	

J = the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL).

MCL NE = Maximum Contaminant Level Not Established

U = the analyte was analyzed for but not detected

Table-2 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Dissolved TAL Metals plus Uranium

Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Nickel MCL NE	0.21	0.005	0.0014		SW-846:6020
9/16/2014		0.055	0.005	0.0014		
9/18/2014		0.045	0.005	0.0014		
9/22/2014		0.073	0.005	0.0014		
9/25/2014		0.036	0.005	0.0014		
9/29/2014		0.058	0.005	0.0014		
9/29/2014		0.058	0.005	0.0014		
9/9/2014	Potassium MCL NE	5.4	1	0.16		
9/16/2014		5	1	0.16		
9/18/2014		4.9	1	0.16		
9/22/2014		5.3	1	0.16		
9/25/2014		5.1	1	0.16		
9/29/2014		5	1	0.16		
9/29/2014		5.1	1	0.16		
9/9/2014	Selenium MCL 0.05 mg/L	0.00079	0.001	0.00054	J	
9/16/2014		0.00065	0.001	0.00054	J	
9/18/2014		0.00079	0.001	0.00054	J	
9/22/2014		0.00066	0.001	0.00054	J	
9/25/2014		0.00062	0.001	0.00054	J	
9/29/2014		0.00094	0.001	0.00054	J	
9/29/2014		0.0014	0.001	0.00054		
9/9/2014	Silver MCL NE	0.00004	0.0001	0.00004	U	
9/16/2014		0.00004	0.0001	0.00004	U	
9/18/2014		0.00004	0.0001	0.00004	U	
9/22/2014		0.00004	0.0001	0.00004	U	
9/25/2014		0.00004	0.0001	0.00004	U	
9/29/2014		0.00004	0.0001	0.00004	U	
9/29/2014		0.00004	0.0001	0.00004	U	
9/9/2014	Sodium MCL NE	51	1	0.24		
9/16/2014		47	1	0.24		
9/18/2014		48	1	0.24		
9/22/2014		48	1	0.24		
9/25/2014		49	1	0.24		
9/29/2014		48	1	0.24		
9/29/2014		49	1	0.24		

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MCL NE = Maximum Contaminant Level Not Established

U = the analyte was analyzed for but not detected

Table-2 NMED DOE OB FFY 2014 Q-3 Mixed Waste Landfill Groundwater Monitoring Well MWL-MW4 Metals Study: Dissolved TAL Metals plus Uranium

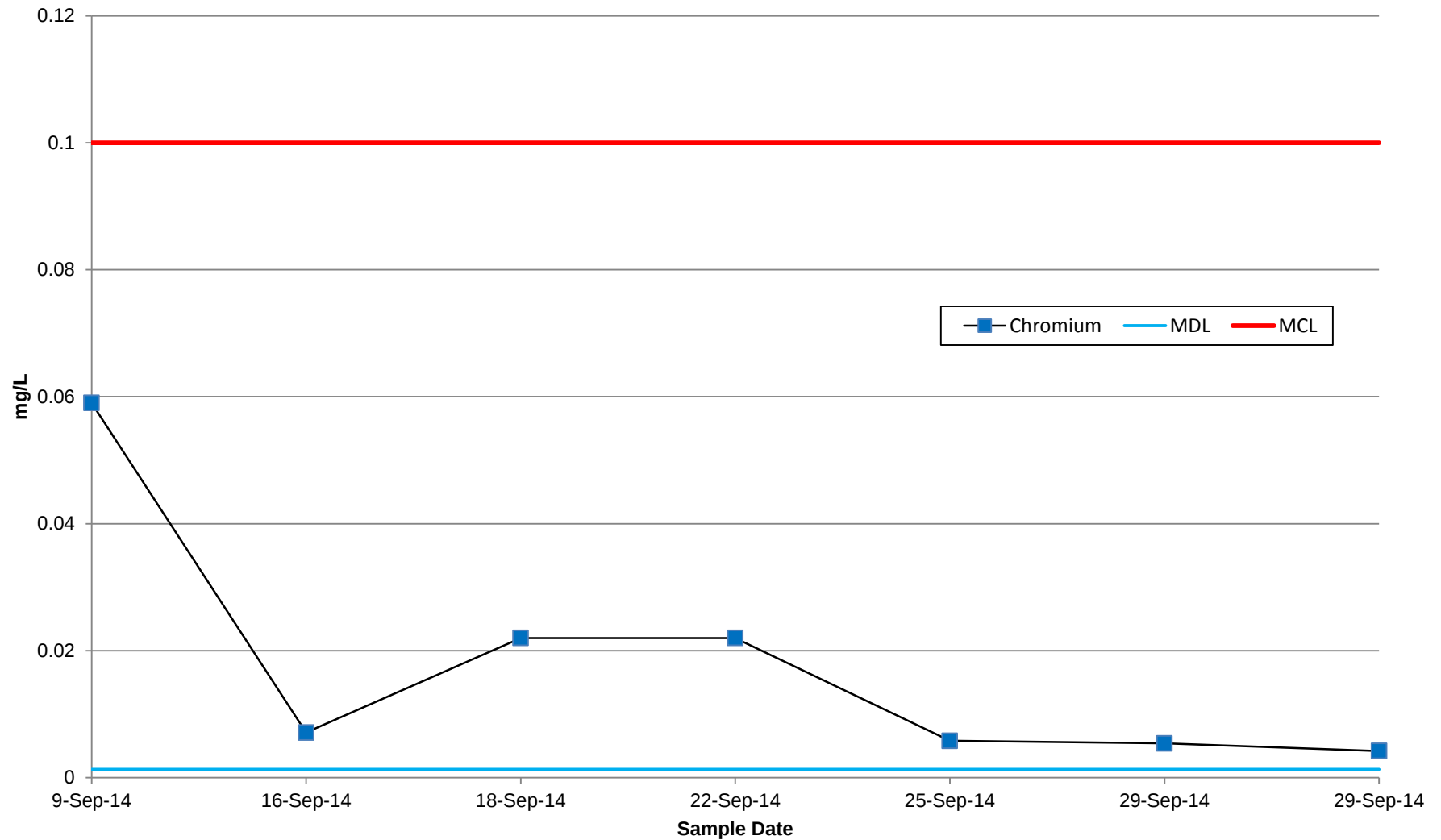
Sample Date	Analyte	Result (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
9/9/2014	Thallium MCL 0.002 mg/L	0.000042	0.0002	0.000042	U	SW-846:6020
9/16/2014		0.000042	0.0002	0.000042	U	
9/18/2014		0.000042	0.0002	0.000042	U	
9/22/2014		0.000042	0.0002	0.000042	U	
9/25/2014		0.000042	0.0002	0.000042	U	
9/29/2014		0.000042	0.0002	0.000042	U	
9/29/2014		0.000042	0.0002	0.000042	U	
9/9/2014	Uranium MCL 0.03 mg/L	0.0054	0.0001	0.000088		
9/16/2014		0.0061	0.0001	0.000088		
9/18/2014		0.0061	0.0001	0.000088		
9/22/2014		0.0063	0.0001	0.000088		
9/25/2014		0.0062	0.0001	0.000088		
9/29/2014		0.0063	0.0001	0.000088		
9/29/2014		0.0063	0.0001	0.000088		
9/9/2014	Vanadium MCL NE	0.0074	0.001	0.00052		
9/16/2014		0.0082	0.001	0.00052		
9/18/2014		0.0086	0.001	0.00052		
9/22/2014		0.0081	0.001	0.00052		
9/25/2014		0.0085	0.001	0.00052		
9/29/2014		0.0081	0.001	0.00052		
9/29/2014		0.0083	0.001	0.00052		
9/9/2014	Zinc MCL NE	0.034	0.02	0.0068		
9/16/2014		0.026	0.02	0.0068		
9/18/2014		0.02	0.02	0.0068		
9/22/2014		0.031	0.02	0.0068		
9/25/2014		0.02	0.02	0.0068		
9/29/2014		0.03	0.02	0.0068		
9/29/2014		0.029	0.02	0.0068		

J = the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL).

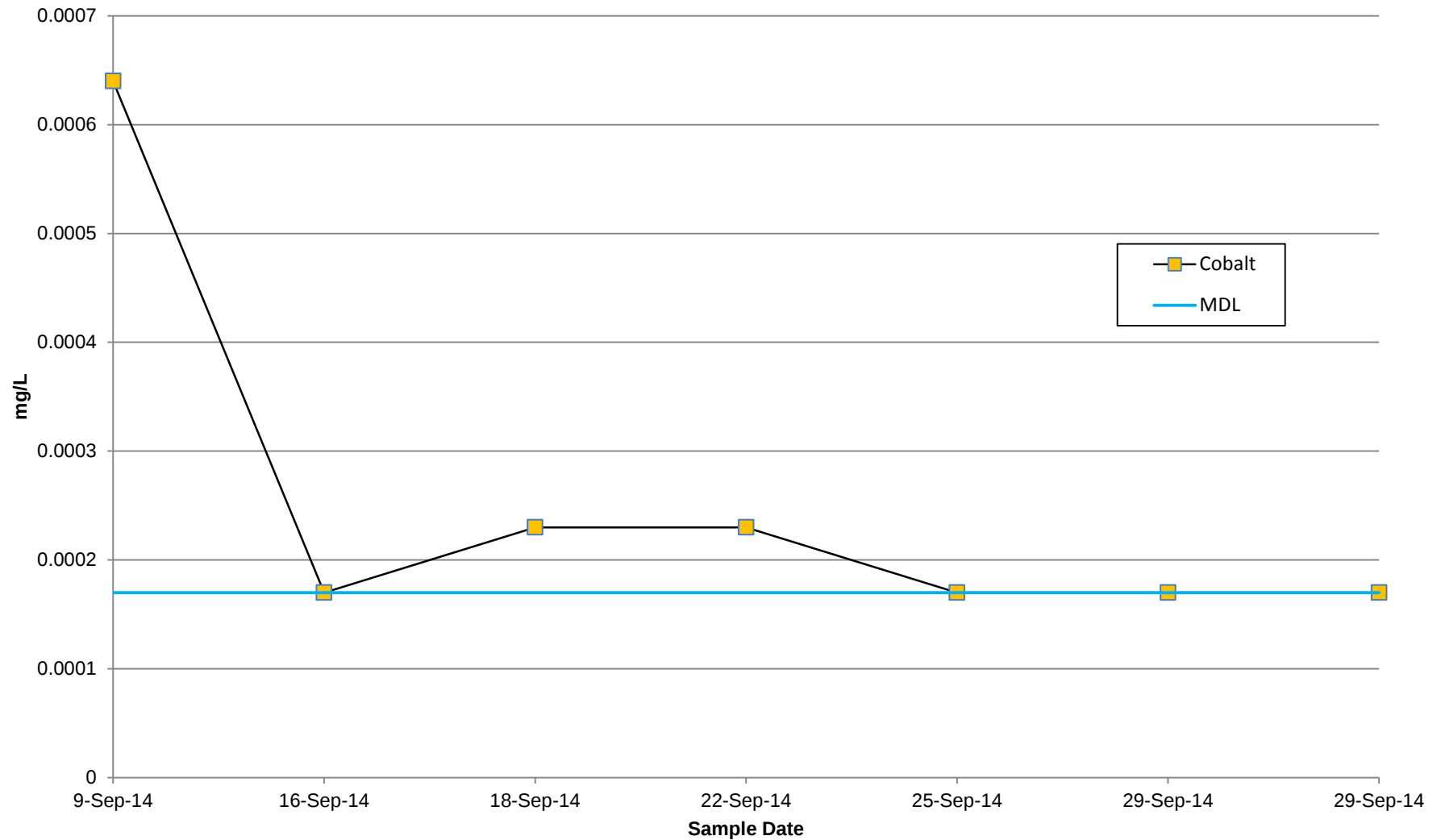
MCL NE = Maximum Contaminant Level Not Established

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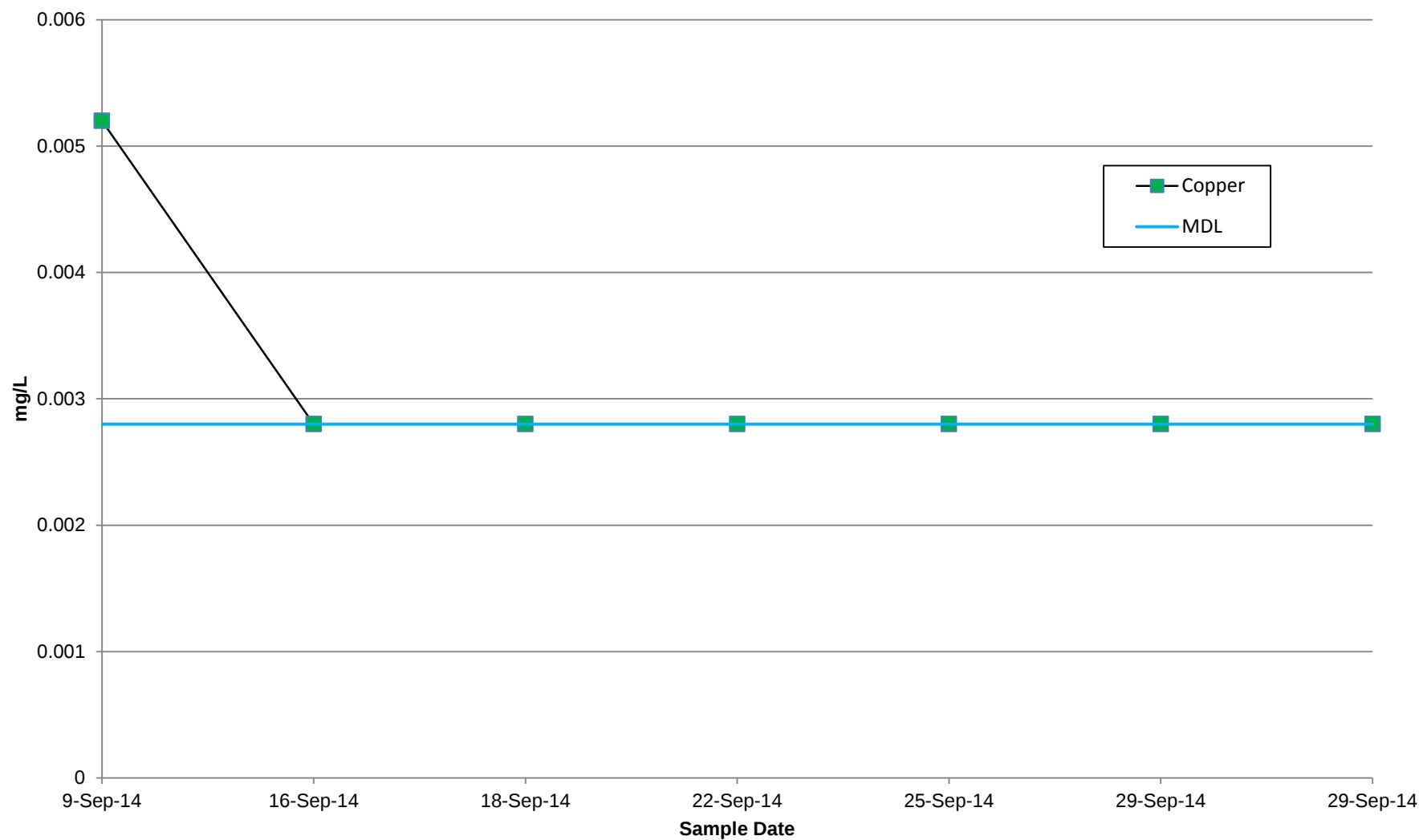
**Figure 1. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Chromium Results
NMED DOE Oversight Bureau**



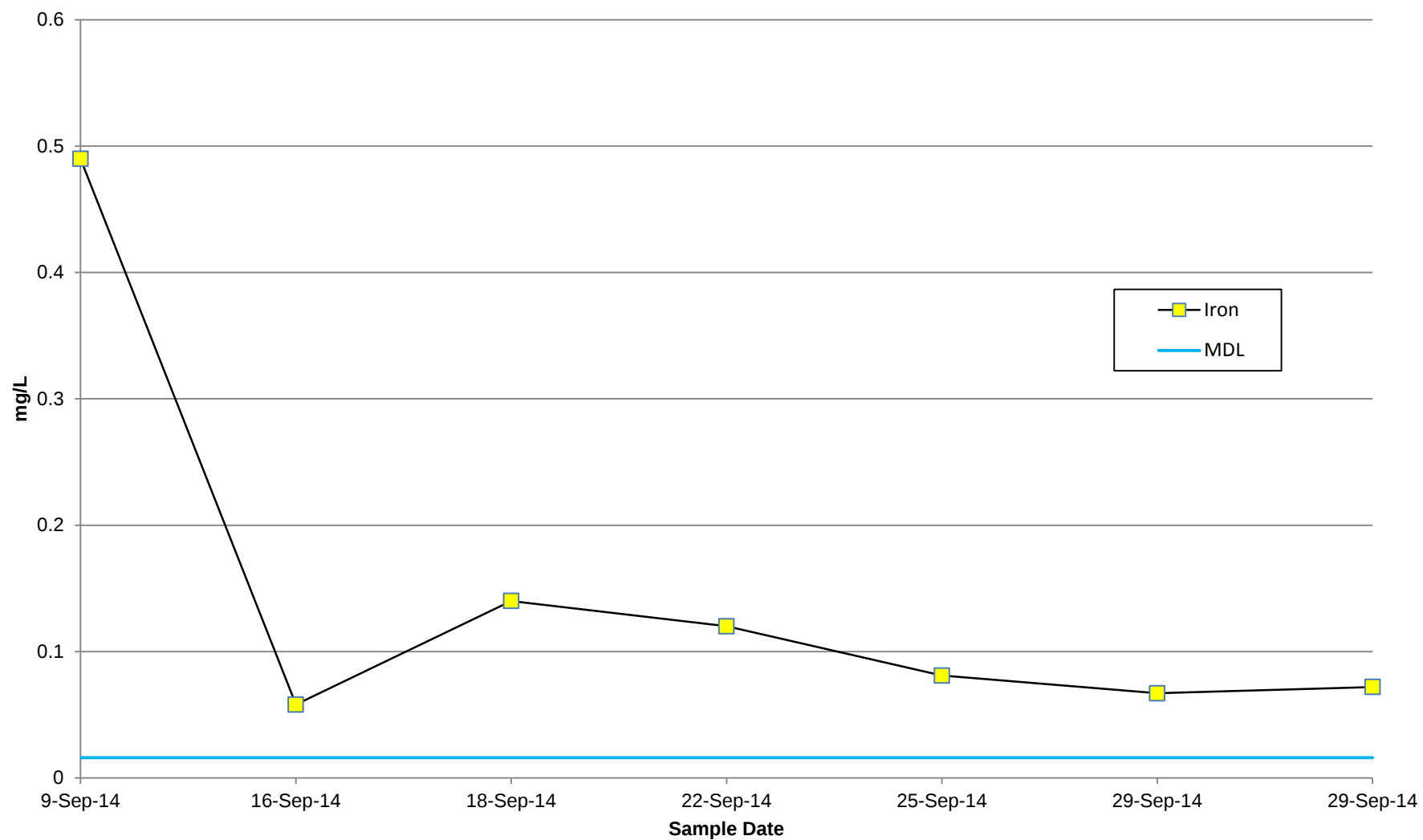
**Figure 2. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Cobalt Results
NMED DOE Oversight Bureau**



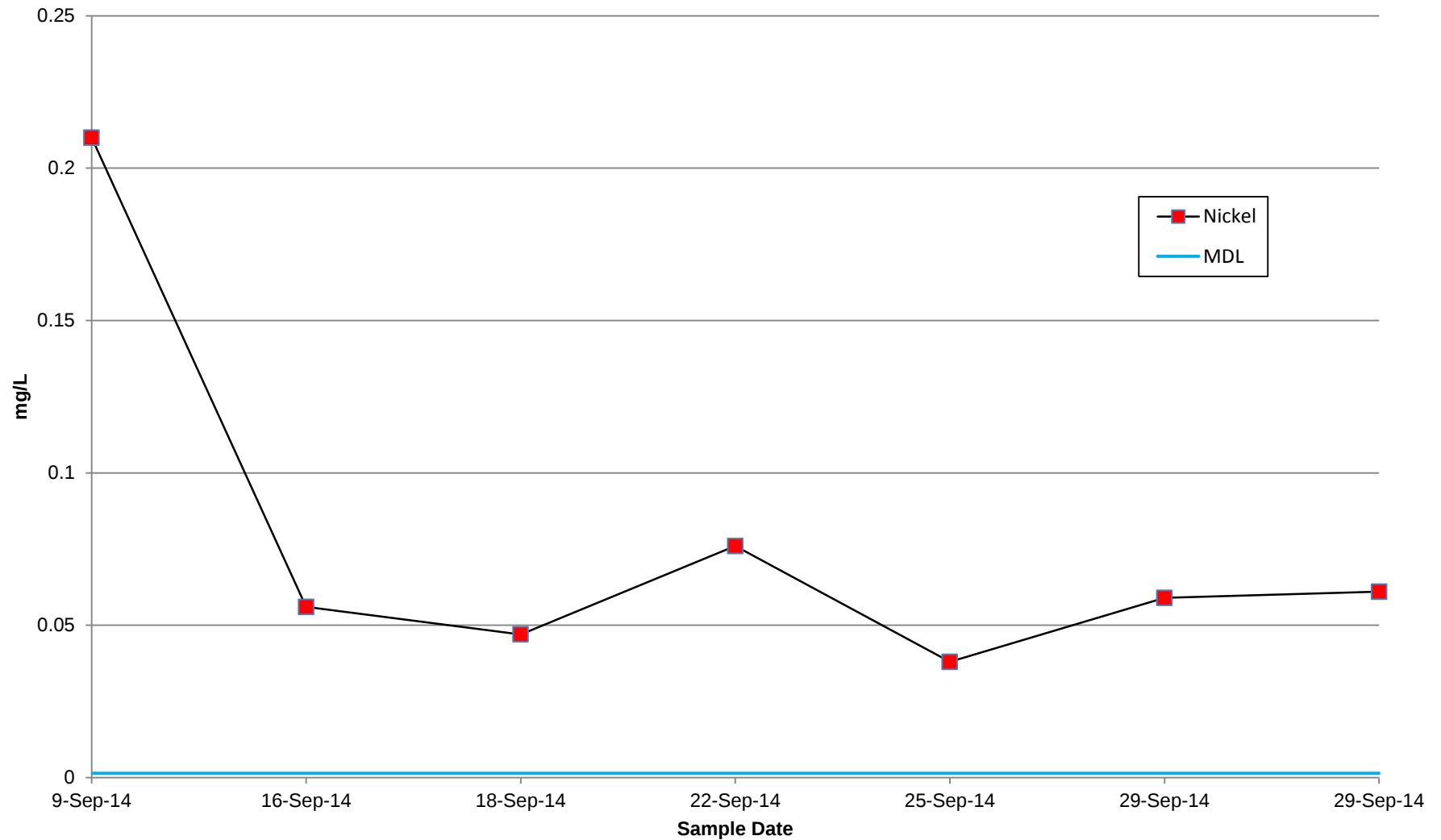
**Figure 3. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Copper Results
NMED DOE Oversight Bureau**



**Figure 4. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Iron Results
NMED DOE Oversight Bureau**



**Figure 5. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Nickel Results
NMED DOE Oversight Bureau**



Acknowledgment:

This material is based upon work supported by the Department of Energy Office of Environmental Management under Award Number *DE-EM0002420*.

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