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October 8, 2014

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NMED
Hazardous Waste Bureau

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

Subject: DRAFT 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 monitoring results are provided to DOE for review and comment prior to their release as final to other State of New Mexico and federal agencies, the NMED website and interested members of the public. If you have any questions, please contact me at (505)845-5933.

Sincerely,

Susan A Lucas Kamat

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

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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	

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).

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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		

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	**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

U = the analyte was analyzed for but not detected

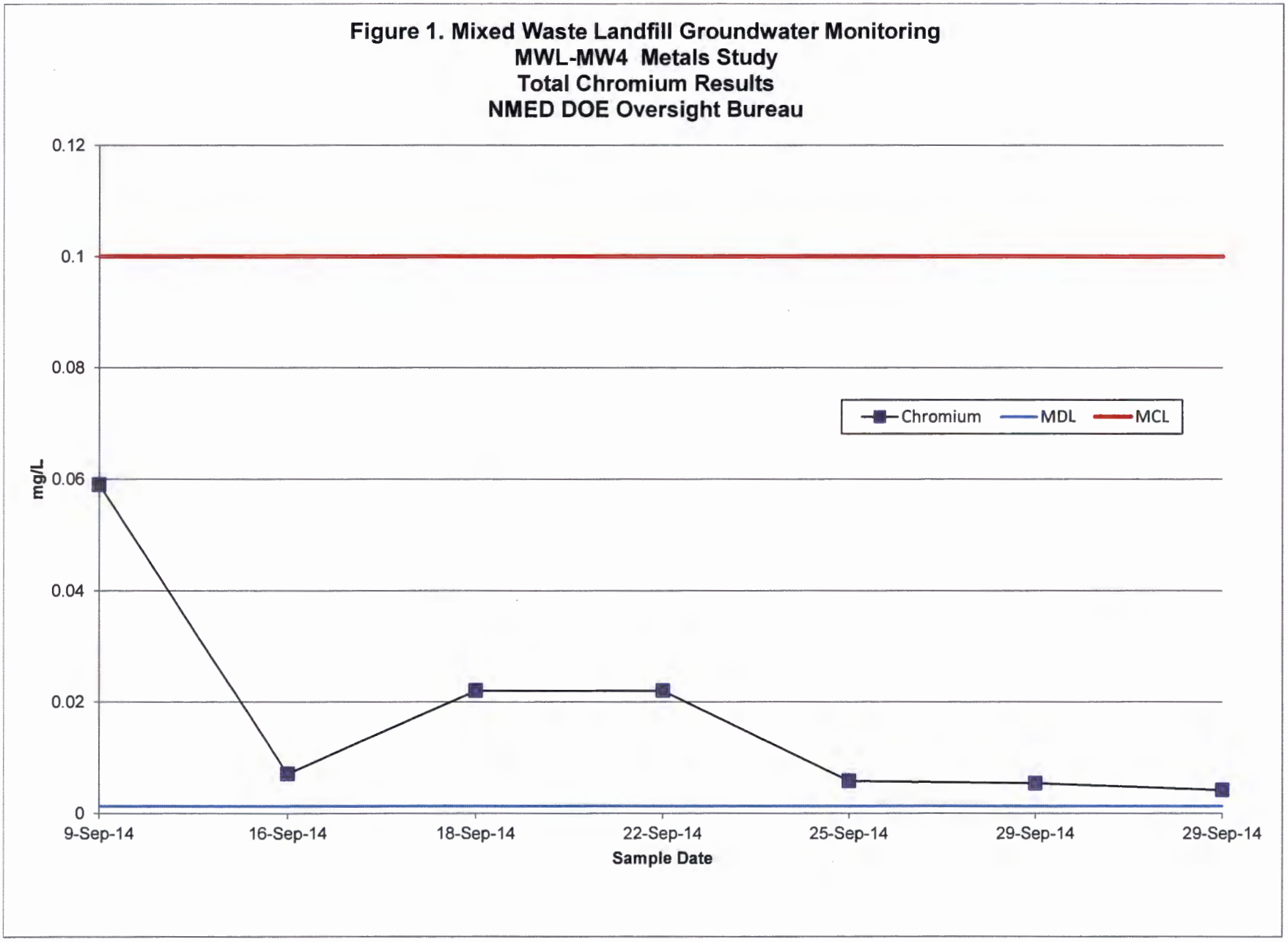


Figure 1. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Chromium Results
NMED DOE Oversight Bureau
0.12
0.1
0.08
0.06
0.04
0.02
0
mg/L
Chromium
MDL
MCL
9-Sep-14
16-Sep-14
18-Sep-14
22-Sep-14
25-Sep-14
29-Sep-14
29-Sep-14
Sample Date

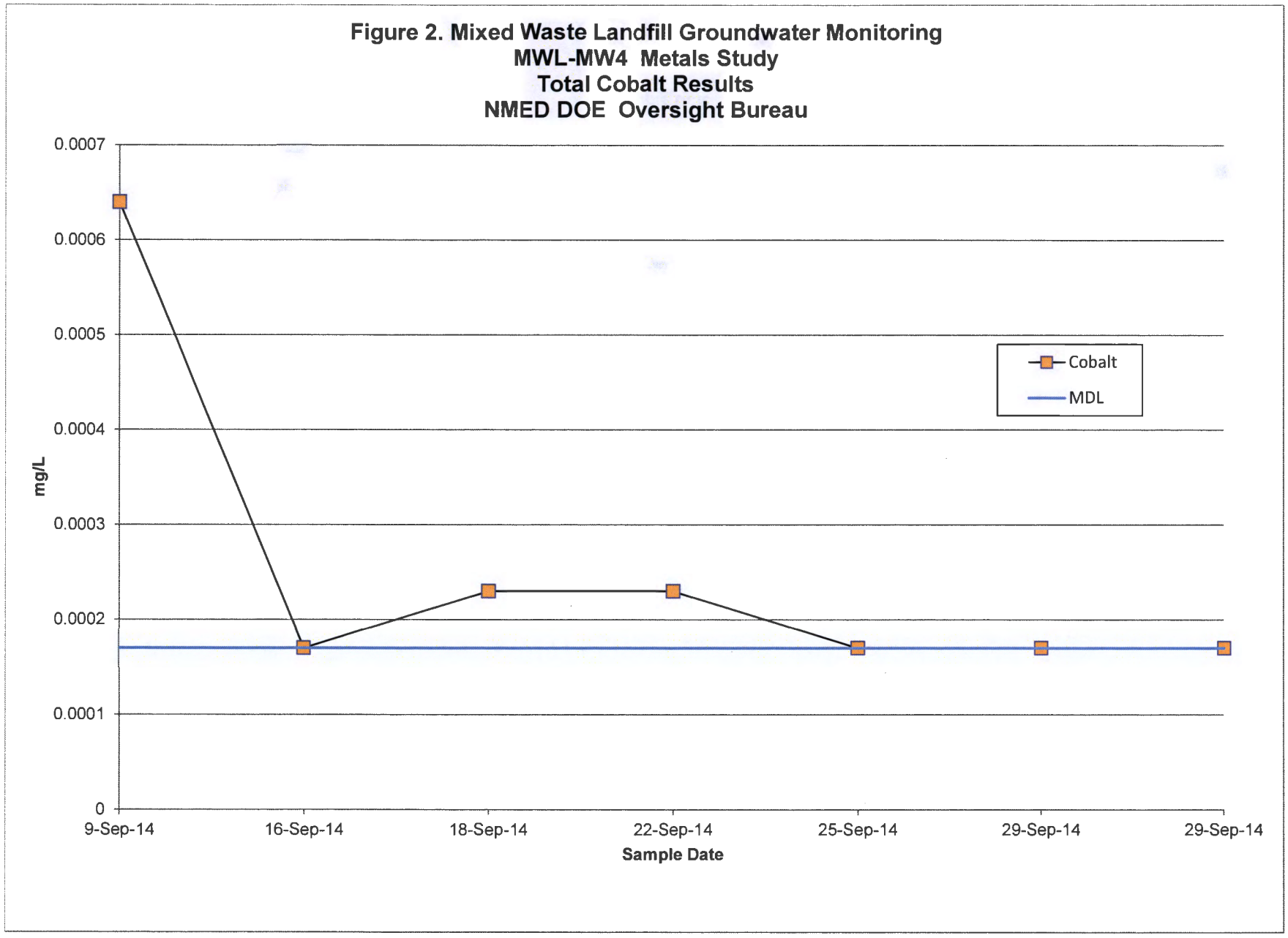


Figure 2. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Cobalt Results
NMED DOE Oversight Bureau
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
mg/L
Cobalt
MDL
9-Sep-14
16-Sep-14
18-Sep-14
22-Sep-14
25-Sep-14
29-Sep-14
29-Sep-14
Sample Date

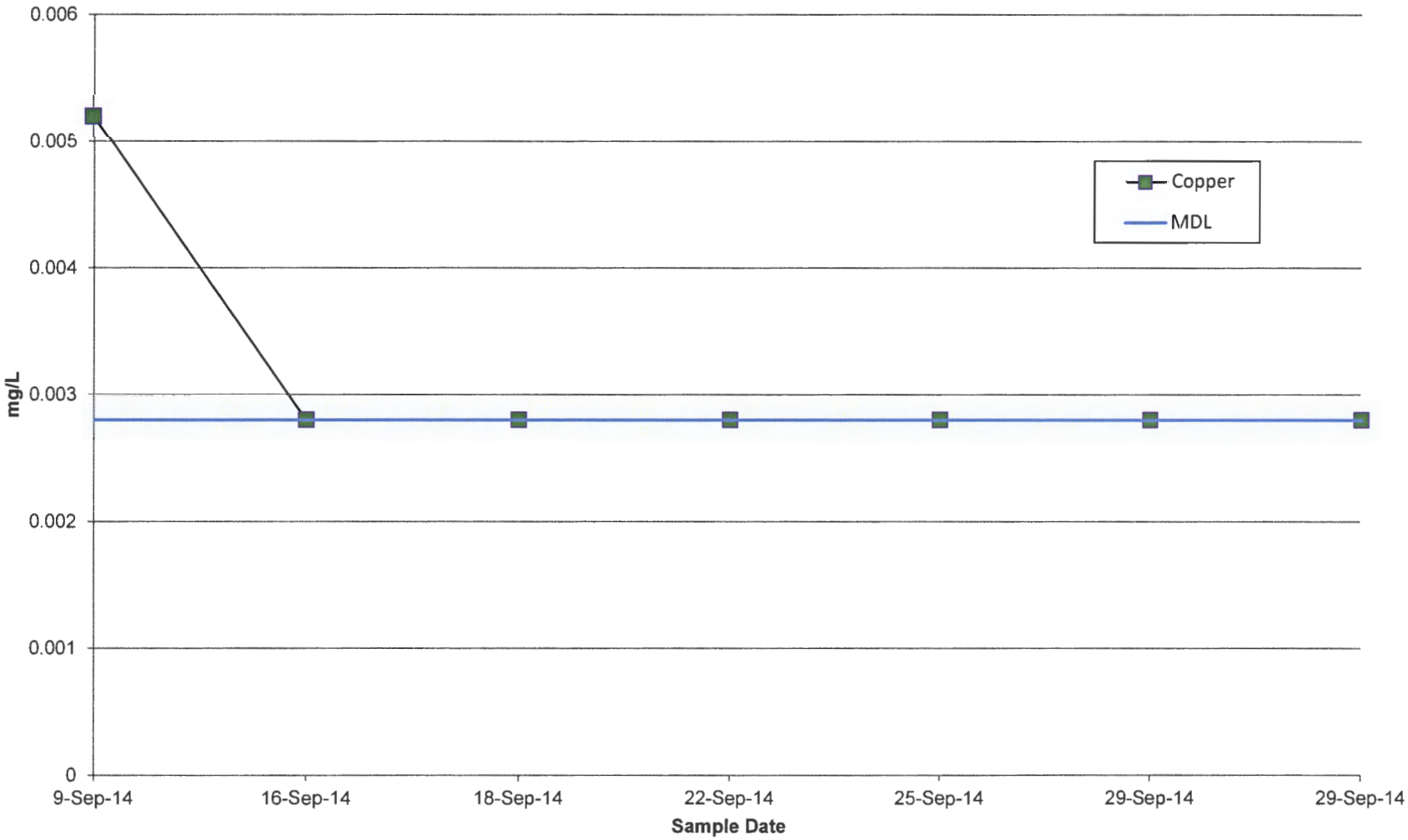


Figure 3. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Copper Results
NMED DOE Oversight Bureau
0.006
0.005
0.004
0.003
0.002
0.001
0
mg/L
Copper
MDL
9-Sep-14
16-Sep-14
18-Sep-14
22-Sep-14
25-Sep-14
29-Sep-14
29-Sep-14
Sample Date

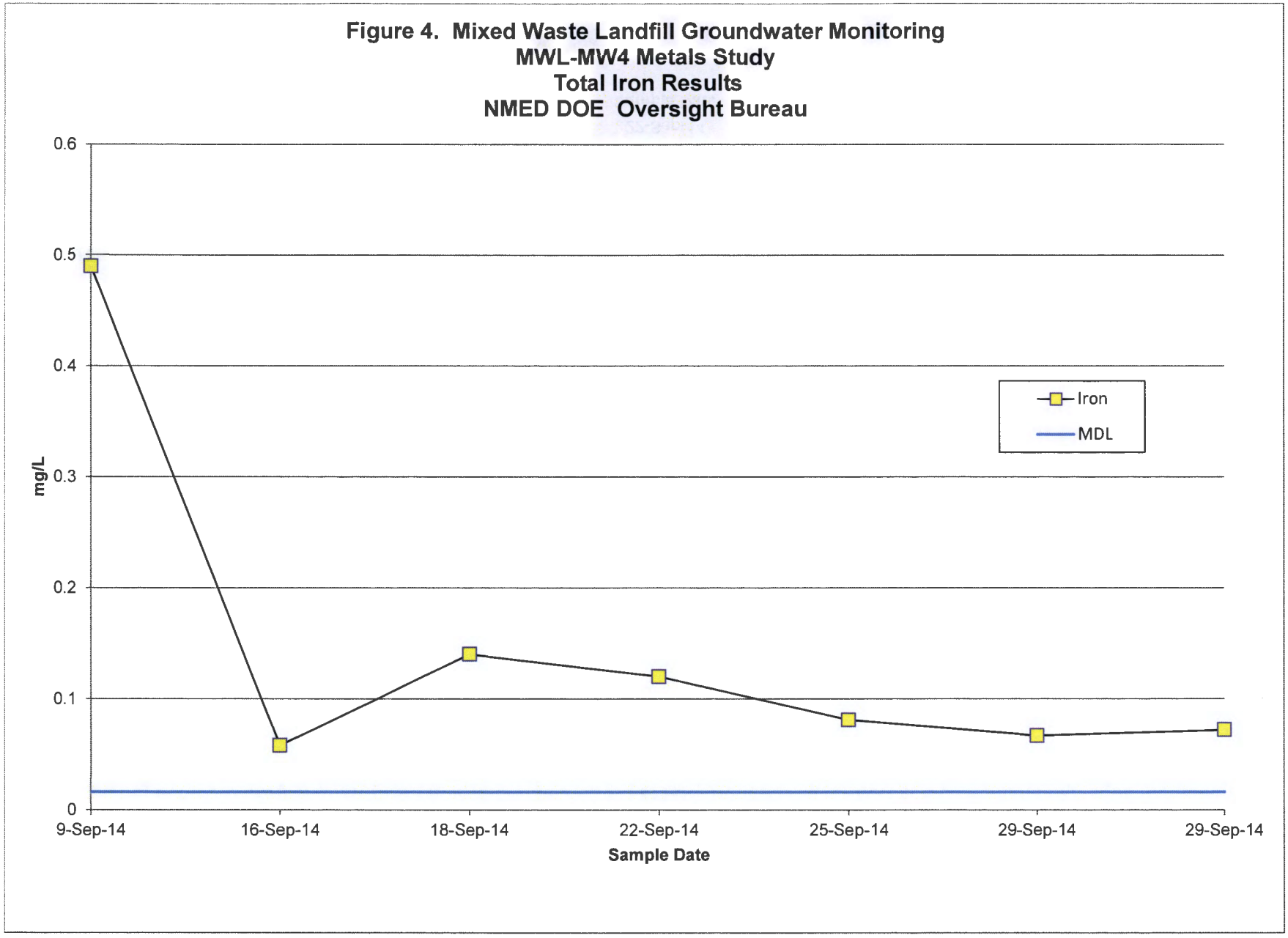
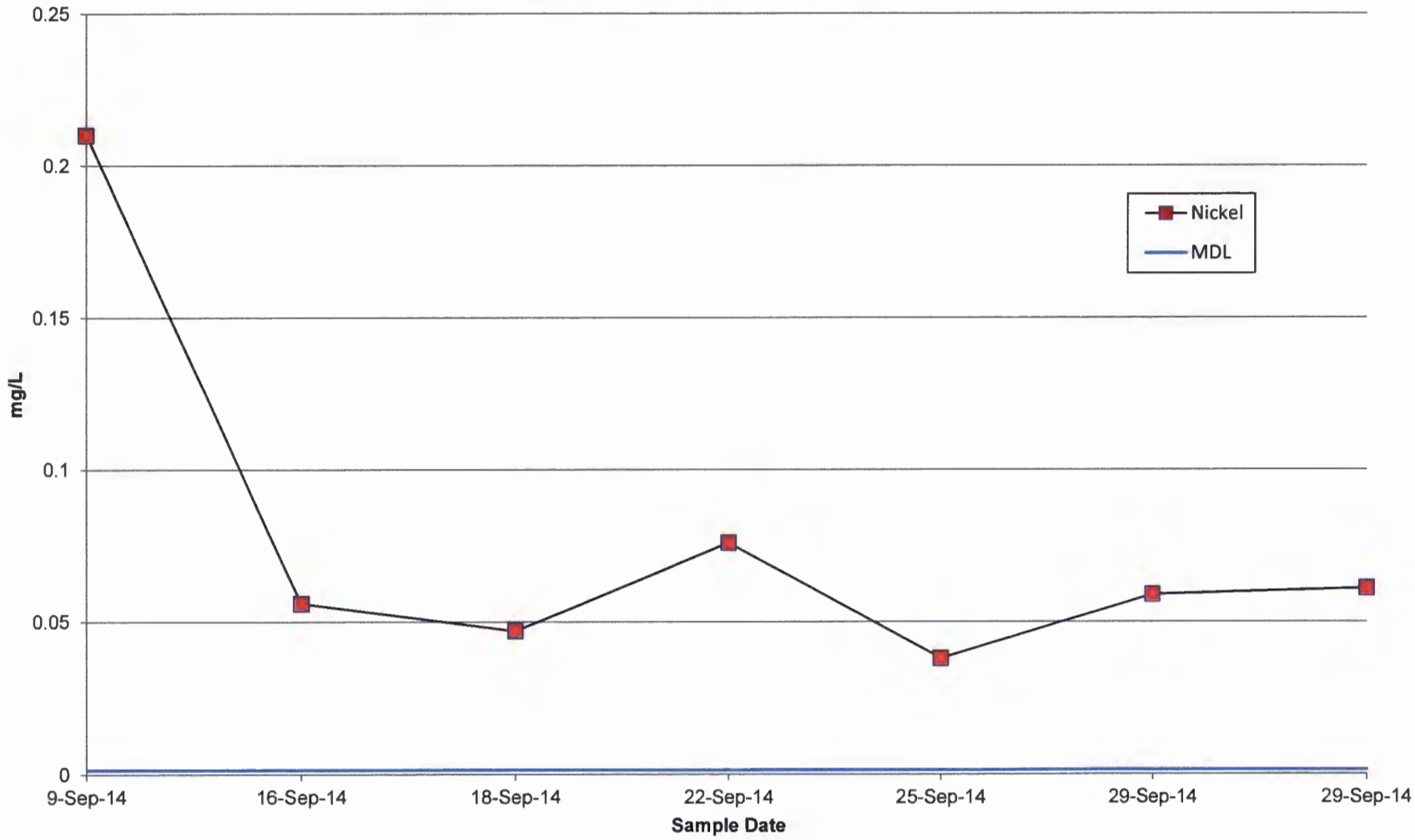


Figure 4. Mixed Waste Landfill Groundwater Monitoring
MWL-MW4 Metals Study
Total Iron Results
NMED DOE Oversight Bureau
0.6
0.5
0.4
0.3
0.2
0.1
0
mg/L
Iron
MDL
9-Sep-14
16-Sep-14
18-Sep-14
22-Sep-14
25-Sep-14
29-Sep-14
29-Sep-14
Sample Date

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



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Wednesday, October 01, 2014

Mr. Chris Armijo
New Mexico Environmental Department, USDOE
H Pennsylvania St.
Albuquerque, NM 87116

Re: ALS Workorder: 1409588
Project Name: SGE42
Project Number: SGE42-9 09.29.14

Dear Mr. Armijo:

Fourteen water samples were received from New Mexico Environmental Department, USDOE, on 9/30/2014. The samples were scheduled for the following analysis:

Metals	pages 1-33

The results for these analyses are contained in the enclosed reports.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

for

ALS Environmental
Lance R. Steere
Project Manager

LRS/axk
Enclosure(s): Report

ALS is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Laboratory Certifications	
Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri	175
Nebraska	NE-OS-24-13
Nevada (NV)	CO000782008A
New Jersey (NJ)	CO003
North Dakota (ND)	R-057
Oklahoma	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington	C1280

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1409588
Client Name: New Mexico Environmental Department, USDOE
Client Project Name: SGE42
Client Project Number: SGE42-9 09.29.14
Client PO Number: 20-667-00-16004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MWL-MW4-09.09.14	1409588-1		WATER	09-Sep-14	10:34
MWL-MW4-09.16.14	1409588-2		WATER	16-Sep-14	9:18
MWL-MW4-09.18.14	1409588-3		WATER	18-Sep-14	9:08
MWL-MW4-09.22.14	1409588-4		WATER	22-Sep-14	8:46
MWL-MW4-09.25.14	1409588-5		WATER	25-Sep-14	8:44
MWL-MW4-09.29.14	1409588-6		WATER	29-Sep-14	8:50
MWL-MW4-DUP-09.29.14	1409588-7		WATER	29-Sep-14	8:50
MWL-MW4-09.09.14	1409588-8		WATER	09-Sep-14	10:34
MWL-MW4-09.16.14	1409588-9		WATER	16-Sep-14	9:18
MWL-MW4-09.18.14	1409588-10		WATER	18-Sep-14	9:08
MWL-MW4-09.22.14	1409588-11		WATER	22-Sep-14	8:46
MWL-MW4-09.25.14	1409588-12		WATER	25-Sep-14	8:44
MWL-MW4-09.29.14	1409588-13		WATER	29-Sep-14	8:50
MWL-MW4-DUP-09.29.14	1409588-14		WATER	29-Sep-14	8:50

Chain of Custody Record

1409588

SHIP TO:
ALS Laboratory Group
225 Commerce Drive
Fort Collins, CO 80524
(970) 490-1511

MAIL REPORT TO:
Chris Armijo
NMED-DOE Oversight Bureau
P.O. Box 5400 MS1396
Albuquerque, NM 87185
chris.armijo1@state.nm.us

Initials
CA
(505) 845-5824

BILL TO:
NMED-DOE Oversight Bureau
P.O. Box 5400 MS1396
Albuquerque, NM 87185
Jennifer Brokaw
jennifer.brokaw@state.nm.us

Project Number (COC ID): SGE42-9 09 29 14

NMED Project Name: SGE42

	Total TAL metals 6020/7470	Dissolved TAL metals 6020/7470	Total TAL metals 6020/7470										Estimated Cost: $1,260.00
Preservative	HNO3	HNO3	HNO3										
Filtered in Field	Unfiltered	Filtered	Unfiltered										
Container Type	500 ml poly	500 ml poly	1L-poly										
Line Item No.	~~202~~	~~202~~	~~202~~	203		9/30/14, per Chris A email							
Price per Sample	$90.00	$90.00	$90.00										

Lab ID Number	NMED - Sample ID	Date	Time														
1	MWL-MW4-09.09.14	9/9/2014	1034	X	8 X												
2	MWL-MW4-09.16.14	9/16/2014	0918	X	9 X												
3	MWL-MW4-09.18.14	9/18/2014	0908	X	10 X												
4	MWL-MW4-09.22.14	9/22/2014	0846	X	11 X												
5	MWL-MW4-09.25.14	9/25/2014	0844	X	12 X												
6	MWL-MW4-09.29.14	9/29/2014	0850	X	13 X												
7	MWL-MW4-DUP-09.29.14	9/29/2014	0850		14 X	X											
			Total No. of Samples	6	7	1											

QC Level: II

Turn Around Time (TAT): 7-day TAT

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	9/29/14 1400	[signature]	9-30-14 0940
Relinquished By:	Date/Time:	Received By:	Date/Time:

Comments:

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1409588

Project Manager: LRS Initials: JLR Date: 9-30-14

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	NONE	(YES)	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	(YES)	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	(YES)	NO
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	(N/A)	YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	0.6°							
No. of custody seals on cooler:	1							
DOT Survey/ Acceptance Information: External µR/hr reading:	15							
DOT Survey/ Acceptance Information: Background µR/hr reading:	13							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (YES) / NO / NA (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [signature] 9/30/14

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

FedEx Express NEW Package US Airbill

FedEx Tracking Number 8046 2934 9848

Form ID No. 0200

1 From

Date 9/27/14 [redacted]

Sender's Name CHRIS ARMITO Phone 505 845 1824

Company NMED DOE OB

Address VOLCC BLDG 2877 11 PENNSYLVANIA ST. Dept./Floor/Suite/Room

City ALBUQUERQUE State NM ZIP 87114

2 Your Internal Billing Reference

3 To

Recipient's Name LANCE STEERE Phone 970 490 1511

Company ALS LABORATORY GROUP

Address 225 COMMERCE DR Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City FT COLLINS State CO ZIP 80524

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight. [ ]

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations. [ ]

8046 2934 9848

4 Express Package Service • To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., see the new FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

15

-1

5 Packaging • Declared value

[ ] FedEx Envelope* [ ] FedEx Pak* [ ] FedEx Box [ ] FedEx Tube [X] Other

6 Special Handling and Delivery Signature Options

[ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ___ x ___ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted] 42 [redacted]

Total Packages 1 Total Weight 42 lbs. [redacted] Credit Card Auth.

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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0.60C

88596041

Office: 337-237-7123
P.O. Box 2003
Lafayette, LA 70502

C&G Containers Scientific
"The Total Package!"

Fax: 337-237-8712
152 Easy Street
Lafayette, LA 70506

CERTIFICATE OF ANALYSIS

This "Certificate of Analysis" represents a precleaned product that has been prepared in accordance with Performance-Based specifications. This product meets or exceeds analyte specifications established in the U.S. EPA OSWER Directive 9240.0-05A "Specification and Guidance for Contaminant-free Sample Containers" for use in Superfund and other Hazardous waste programs.

Group 1 Containers for Semivolatile Organics

Analyte	RL ug/L	Analyte	RL ug/L	Analyte	RL ug/L
1,1'-Biphenyl	0.2 U	Benzaldehyde	0.2 U	4,4'-DDD	0.012 U
1,2,4-Trichlorobenzene	0.2 U	Benzo(a)pyrene	0.1 U	4,4'-DDE	0.012 U
1,2-Dichlorobenzene	0.2 U	Benzo(b)fluoranthene	0.1 U	4,4'-DDT	0.012 U
1,3-Dichlorobenzene	0.2 U	Benzo(g,h,i)perylene	0.1 U	Aldrin	0.012 U
1,4-Dichlorobenzene	0.2 U	Benzo(k)fluoranthene	0.1 U	alpha-BHC	0.012 U
1-Methylnaphthalene	0.1 U	Bis(2-chloroethoxy)methane	0.2 U	beta-BHC	0.012 U
2,4,5-Trichlorophenol	0.2 U	Bis(2-chloroethyl)ether	0.2 U	Chlordane	0.12 U
2,4,6-Trichlorophenol	0.2 U	Bis(2-chloroisopropyl)ether	0.2 U	delta-BHC	0.012 U
2,4-Dichlorophenol	0.2 U	Bis(2-ethylhexyl)phthalate	0.2 U	Dieldrin	0.012 U
2,4-Dimethylphenol	0.2 U	Butyl benzyl phthalate	0.2 U	Endosulfan I	0.012 U
2,4-Dinitrophenol	1 U	Caprolactam	0.2 U	Endosulfan II	0.012 U
2,4-Dinitrotoluene	0.2 U	Carbazole	0.2 U	Endosulfan sulfate	0.012 U
2,6-Dinitrotoluene	0.2 U	Chrysene	0.1 U	Endrin	0.012 U
2-Chloronaphthalene	0.2 U	Dibenz(a,h)anthracene	0.1 U	Endrin aldehyde	0.012 U
2-Chlorophenol	0.2 U	Dibenzofuran	0.2 U	Endrin ketone	0.012 U
2-Methylnaphthalene	0.1 U	Diethyl phthalate	0.2 U	gamma-BHC (Lindane)	0.012 U
2-Methylphenol	0.2 U	Dimethyl phthalate	0.2 U	Heptachlor	0.012 U
2-Nitroaniline	0.2 U	Di-n-butyl phthalate	0.2 U	Heptachlor epoxide	0.012 U
2-Nitrophenol	0.2 U	Di-n-octyl phthalate	0.2 U	Methoxychlor	0.12 U
3&4-Methylphenol	0.2 U	Fluoranthene	0.1 U	Toxaphene	0.12 U
3,3'-Dichlorobenzidine	0.2 U	Fluorene	0.1 U	alpha-Chlordane	0.012 U
3-Nitroaniline	0.2 U	Hexachlorobenzene	0.2 U	gamma-Chlordane	0.012 U
4,6-Dinitro-2-methylphenol	0.2 U	Hexachlorobutadiene	0.2 U	Aroclor 1016	0.12 U
4-Bromophenyl phenyl ether	0.2 U	Hexachlorocyclopentadiene	0.2 U	Aroclor 1221	0.12 U
4-Chloro-3-methylphenol	0.2 U	Hexachloroethane	0.2 U	Aroclor 1232	0.12 U
4-Chloroaniline	0.2 U	Indeno(1,2,3-cd)pyrene	0.1 U	Aroclor 1242	0.12 U
4-Chlorophenyl phenyl ether	0.2 U	Isophorone	0.2 U	Aroclor 1248	0.12 U
4-Nitroaniline	0.2 U	Naphthalene	0.1 U	Aroclor 1254	0.12 U
4-Nitrophenol	1 U	Nitrobenzene	0.2 U	Aroclor 1260	0.12 U
Acenaphthene	0.1 U	N-Nitrosodimethylamine	0.2 U	Diesel Range Organics	0.10 U mg/L
Acenaphthylene	0.1 U	N-Nitrosodi-n-propylamine	0.2 U	Diesel Range Organics	10.0 U mg/Kg
Acetophenone	0.2 U	Pentachlorophenol	0.2 U	Oil & Grease	5 U mg/L
Anthracene	0.1 U	Phenanthrene	0.1 U	Phenolics	0.005 U mg/L
Atrazine	0.2 U	Phenol	0.2 U	Total Organic Carbon	1.0 U mg/L
Benz(a)anthracene	0.1 U	Pyrene	0.1 U	TPH by TX1005	50 U mg/Kg

NOTES:
a. Reporting Limit (RL) = The lowest concentration standard analyzed which can be verified.
b. U = The analyte was analyzed for but not detected above the Reporting Limit.

This "Certificate of Analysis" is provided for your records and is used to facilitate any required correspondences as needed.

Each container contains:

Barcoded: Yes *Stirbars:* No *Tared Weight:* No

Part Number: LAS009200010 **Date Product Prepared:** 07/28/14

Item Description: 9oz Amber S/S w/ 70-400 PTFE lined cap **Lot Number:** 072814-1LI

Chemical Lot No.: N/A

Protocol: A **Level:** 1 **Chemical Expiry Date:** N/A

Group: 1 (applies)

Product processed at:
421 Wall Street
Lafayette, LA 70506 USA

Corporate Technical Director

Revision 2014-00 sf

Metals

Case Narrative

New Mexico Environmental Department, USDOE

SGE42 – SGE42-9 09.29.14

Work Order Number: 1409588

1. This report consists of 14 water samples.

2. The samples were received cool and intact by ALS on 09/30/14.

3. The samples had a pH less than 2 upon receipt.

4. The samples were prepared and analyzed based on SW-846, 3rd Edition procedures.

   For analysis by ICP-MS, the samples were digested following method 3005A and the current revision of SOP 806.

   For analysis by Cold Vapor AA (CVAA), the samples were digested following method 7470A and the current revision of SOP 812.

5. Analysis by ICP-MS followed method 6020A and the current revision of SOP 827.

   Analysis by CVAA followed method 7470A and the current revision of SOP 812.

6. All standards and solutions are NIST traceable and were used within their recommended shelf life.

7. The samples were prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.

   - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.

- The preparation (method) blank associated with each digestion batch was below the reporting limit for the requested analytes.
- All laboratory control sample criteria were met.
- All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.
- The interference check samples associated with Method 6020A were analyzed.

9. Matrix specific quality control procedures.

Sample 1409588-7 was designated as the quality control sample for each analysis.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met with the following exception:

Analyte	Sample ID
Mercury	1409588-7MS/MSD

The mercury laboratory control sample indicates that the digestion and analysis were in control.

- Matrix spike recoveries could not be evaluated for the following analytes:

Analyte	Sample ID
Calcium	1409588-7MS/MSD
Sodium	1409588-7MS/MSD

The concentrations of these analytes in the native sample were greater than four times the concentration of matrix spike added during the digestion. When sample concentration is that much greater than the spike added, spike recoveries may not be accurate. The laboratory control sample indicates that the digestion and analysis were in control.

- A sample duplicate and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met with the following exception:

Analyte	Sample ID
Silver	1409588-7D

The native sample result is flagged for duplicate failure.

- A serial dilution was analyzed with the ICP batch. All acceptance criteria were met.

10. It is a standard practice that samples for ICP-MS are analyzed at a dilution.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Jill Latelle

Jill Latelle
Inorganics Primary Data Reviewer

9/30/14
Date

Inorganics Final Data Reviewer

9/30/14
Date

Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A "J" is entered if 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). If the analyte was analyzed for but not detected a "U" is entered. For samples, negative values are reported as non-detects ("U" flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is "J" flagged.

- QC qualifier -- Specified entries and their meanings are as follows:

  E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

  M - Duplicate injection precision was not met.

  N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

  Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

  * - Duplicate analysis (relative percent difference) not within control limits.

  S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1409588
Client Name: New Mexico Environmental Department, USDOE
Client Project Name: SGE42
Client Project Number: SGE42-9 09.29.14
Client PO Number: 20-667-00-16004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
MWL-MW4-09.09.14	1409588-1		WATER	09-Sep-14	10:34
MWL-MW4-09.16.14	1409588-2		WATER	16-Sep-14	9:18
MWL-MW4-09.18.14	1409588-3		WATER	18-Sep-14	9:08
MWL-MW4-09.22.14	1409588-4		WATER	22-Sep-14	8:46
MWL-MW4-09.25.14	1409588-5		WATER	25-Sep-14	8:44
MWL-MW4-09.29.14	1409588-6		WATER	29-Sep-14	8:50
MWL-MW4-DUP-09.29.14	1409588-7		WATER	29-Sep-14	8:50
MWL-MW4-09.09.14	1409588-8		WATER	09-Sep-14	10:34
MWL-MW4-09.16.14	1409588-9		WATER	16-Sep-14	9:18
MWL-MW4-09.18.14	1409588-10		WATER	18-Sep-14	9:08
MWL-MW4-09.22.14	1409588-11		WATER	22-Sep-14	8:46
MWL-MW4-09.25.14	1409588-12		WATER	25-Sep-14	8:44
MWL-MW4-09.29.14	1409588-13		WATER	29-Sep-14	8:50
MWL-MW4-DUP-09.29.14	1409588-14		WATER	29-Sep-14	8:50

Chain of Custody Record

1409588

SHIP TO:
ALS Laboratory Group
225 Commerce Drive
Fort Collins, CO 80524
(970) 490-1511

MAIL REPORT TO:
Chris Armijo
NMED-DOE Oversight Bureau
P.O. Box 5400 MS1396
Albuquerque, NM 87185
chris.armijo1@state.nm.us

Initials
CA
(505) 845-5824

BILL TO:
NMED-DOE Oversight Bureau
P.O. Box 5400 MS1396
Albuquerque, NM 87185
Jennifer Brokaw
jennifer.brokaw@state.nm.us

Project Number (COC ID): SGE42-9 09.29.14

NMED Project Name: SGE42

	Total TAL metals 6020/7470	Dissolved TAL metals 6020/7470	Total TAL metals 6020/7470											Estimated Cost: $1,260.00
Preservative	HNO3	HNO3	HNO3											
Filtered in Field	Unfiltered	Filtered	Unfiltered											
Container Type	500 ml poly	500 ml poly	1L-poly											
Line Item No.	~~202~~	~~202~~	202	203	9/30/14, per QA email									
Price per Sample	$90.00	$90.00	$90.00											

Lab ID Number	NMED - Sample ID	Date	Time													
1	MWL-MW4-09.09.14	9/9/2014	1034	X	8 X											
2	MWL-MW4-09.16.14	9/16/2014	0918	X	9 X											
3	MWL-MW4-09.18.14	9/18/2014	0908	X	10 X											
4	MWL-MW4-09.22.14	9/22/2014	0846	X	11 X											
5	MWL-MW4-09.25.14	9/25/2014	0844	X	12 X											
6	MWL-MW4-09.29.14	9/29/2014	0850	X	13 X											
7	MWL-MW4-DUP-09.29.14	9/29/2014	0850		14 X	X										
			Total No. of Samples	6	7	1										

Comments:

QC Level: II

Turn Around Time (TAT): 7-day TAT

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	9/29/14 1400	[signature]	9-30-14 0940

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1409588

Project Manager: LRS Initials: JLR Date: 9-30-14

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	NONE	(YES)	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	(YES)	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	(YES)	NO
9. Are all aqueous non-preserved samples pH 4-9?	(N/A)	YES	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	(N/A)	YES	NO
15. Do any water samples contain sediment? Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	0.6°							
No. of custody seals on cooler:	1							
DOT Survey/ Acceptance Information — External µR/hr reading:	15							
Background µR/hr reading:	13							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (YES) / NO / NA (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: 9/30/14

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

Form 201r24.xls (06/04/2012)

FedEx Express NEW Packaging US Airbill

FedEx Tracking Number 8046 2934 9848

Form ID No. 0200

1 From

Date 9/29/14 [redacted]

Sender's Name CHRIS ARMITO Phone 505 845 5824

Company NMED DOE OB

Address VICTOR BLDG 2077 HI PENNSYLVANIA ST. Dept./Floor/Suite/Room

City ALBUQUERQUE State NM ZIP 87116

2 Your Internal Billing Reference

3 To

Recipient's Name LANCE STEERE Phone 970 490 1511

Company ALS LABORATORY GROUP

Address 225 COMMERCE DR Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City FT COLLINS State CO ZIP 80524

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8046 2934 9848

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., see the new FedEx Express Freight US Airbill.

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available

2 or 3 Business Days

- [ ] FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

15

5 Packaging * Declared value limit [redacted]

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

1

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ___ x ___ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted] 42 [redacted]

Total Packages 1 Total Weight 42 lbs. Credit Card Auth

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

644

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0.60c

1409588

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.09.14
Lab ID: 1409588-1

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 015SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00023	0.0003	0.00017	J	
7440-38-2	ARSENIC	10	0.0032	0.002	0.00025		
7440-39-3	BARIUM	10	0.1	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	56	1	0.09		
7440-47-3	CHROMIUM	10	0.059	0.01	0.0013		
7440-48-4	COBALT	10	0.00064	0.001	0.00017	J	
7440-50-8	COPPER	10	0.0052	0.01	0.0028	J	
7439-89-6	IRON	10	0.49	0.1	0.016		
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	20	0.1	0.039		
7439-96-5	MANGANESE	10	0.016	0.002	0.00052		
7440-02-0	NICKEL	10	0.21	0.005	0.0014		
7440-09-7	POTASSIUM	10	5	1	0.16		
7782-49-2	SELENIUM	10	0.00054	0.001	0.00054	U	
7440-22-4	SILVER	10	0.0006	0.0001	0.00004		
7440-23-5	SODIUM	10	46	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0049	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0073	0.001	0.00052		
7440-66-6	ZINC	10	0.053	0.02	0.0068		

Data Package ID: *im1409588-1*

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID:	MWL-MW4-09.16.14
Lab ID:	1409588-2

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 16-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 016SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.002	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	58	1	0.09		
7440-47-3	CHROMIUM	10	0.0071	0.01	0.0013	J	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.058	0.1	0.016	J	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	21	0.1	0.039		
7439-96-5	MANGANESE	10	0.011	0.002	0.00052		
7440-02-0	NICKEL	10	0.056	0.005	0.0014		
7440-09-7	POTASSIUM	10	5.2	1	0.16		
7782-49-2	SELENIUM	10	0.00096	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00016	0.0001	0.00004		
7440-23-5	SODIUM	10	48	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0059	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0082	0.001	0.00052		
7440-66-6	ZINC	10	0.027	0.02	0.0068		

Data Package ID: *im1409588-1*

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.18.14
Lab ID: 1409588-3

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 18-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 017SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00051	0.0003	0.00017		
7440-38-2	ARSENIC	10	0.0026	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	56	1	0.09		
7440-47-3	CHROMIUM	10	0.022	0.01	0.0013		
7440-48-4	COBALT	10	0.00023	0.001	0.00017	J	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.14	0.1	0.016		
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	20	0.1	0.039		
7439-96-5	MANGANESE	10	0.015	0.002	0.00052		
7440-02-0	NICKEL	10	0.047	0.005	0.0014		
7440-09-7	POTASSIUM	10	5	1	0.16		
7782-49-2	SELENIUM	10	0.0008	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00008	0.0001	0.00004	J	
7440-23-5	SODIUM	10	47	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.006	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0081	0.001	0.00052		
7440-66-6	ZINC	10	0.033	0.02	0.0068		

Data Package ID: *im1409588-1*

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.22.14
Lab ID: 1409588-4

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 22-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 018SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0024	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	59	1	0.09		
7440-47-3	CHROMIUM	10	0.022	0.01	0.0013		
7440-48-4	COBALT	10	0.00023	0.001	0.00017	J	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.12	0.1	0.016		
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	22	0.1	0.039		
7439-96-5	MANGANESE	10	0.009	0.002	0.00052		
7440-02-0	NICKEL	10	0.076	0.005	0.0014		
7440-09-7	POTASSIUM	10	5	1	0.16		
7782-49-2	SELENIUM	10	0.00073	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00049	0.0001	0.00004		
7440-23-5	SODIUM	10	48	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0062	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.008	0.001	0.00052		
7440-66-6	ZINC	10	0.032	0.02	0.0068		

Data Package ID: *im1409588-1*

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.25.14
Lab ID: 1409588-5

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 25-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 019SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.003	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	61	1	0.09		
7440-47-3	CHROMIUM	10	0.0058	0.01	0.0013	J	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.081	0.1	0.016	J	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	22	0.1	0.039		
7439-96-5	MANGANESE	10	0.014	0.002	0.00052		
7440-02-0	NICKEL	10	0.038	0.005	0.0014		
7440-09-7	POTASSIUM	10	5.4	1	0.16		
7782-49-2	SELENIUM	10	0.0016	0.001	0.00054		
7440-22-4	SILVER	10	0.00022	0.0001	0.00004		
7440-23-5	SODIUM	10	50	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0065	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0089	0.001	0.00052		
7440-66-6	ZINC	10	0.022	0.02	0.0068		

Data Package ID: *im1409588-1*

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.29.14
Lab ID: 1409588-6

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 022SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0029	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	57	1	0.09		
7440-47-3	CHROMIUM	10	0.0054	0.01	0.0013	J	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.067	0.1	0.016	J	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	21	0.1	0.039		
7439-96-5	MANGANESE	10	0.0076	0.002	0.00052		
7440-02-0	NICKEL	10	0.059	0.005	0.0014		
7440-09-7	POTASSIUM	10	4.9	1	0.16		
7782-49-2	SELENIUM	10	0.00068	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	J	
7440-23-5	SODIUM	10	48	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.006	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0079	0.001	0.00052		
7440-66-6	ZINC	10	0.03	0.02	0.0068		

Data Package ID: *im1409588-1*

Total Recoverable ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-DUP-09.29.14
Lab ID: 1409588-7

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 023SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0029	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	61	1	0.09		
7440-47-3	CHROMIUM	10	0.0042	0.01	0.0013	J	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.072	0.1	0.016	J	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	22	0.1	0.039		
7439-96-5	MANGANESE	10	0.0083	0.002	0.00052		
7440-02-0	NICKEL	10	0.061	0.005	0.0014		
7440-09-7	POTASSIUM	10	5.3	1	0.16		
7782-49-2	SELENIUM	10	0.00073	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00055	0.0001	0.00004		*
7440-23-5	SODIUM	10	49	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0067	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0082	0.001	0.00052		
7440-66-6	ZINC	10	0.037	0.02	0.0068		

Data Package ID: *im1409588-1*

Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.09.14
Lab ID: 1409588-8

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 028SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.003	0.002	0.00025		
7440-39-3	BARIUM	10	0.1	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	61	1	0.09		
7440-47-3	CHROMIUM	10	0.0013	0.01	0.0013	U	
7440-48-4	COBALT	10	0.0002	0.001	0.00017	J	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	22	0.1	0.039		
7439-96-5	MANGANESE	10	0.0049	0.002	0.00052		
7440-02-0	NICKEL	10	0.21	0.005	0.0014		
7440-09-7	POTASSIUM	10	5.4	1	0.16		
7782-49-2	SELENIUM	10	0.00079	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	51	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0054	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0074	0.001	0.00052		
7440-66-6	ZINC	10	0.034	0.02	0.0068		

Data Package ID: *im1409588-1*

Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.16.14
Lab ID: 1409588-9

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 16-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 029SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0028	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	58	1	0.09		
7440-47-3	CHROMIUM	10	0.0013	0.01	0.0013	U	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	21	0.1	0.039		
7439-96-5	MANGANESE	10	0.011	0.002	0.00052		
7440-02-0	NICKEL	10	0.055	0.005	0.0014		
7440-09-7	POTASSIUM	10	5	1	0.16		
7782-49-2	SELENIUM	10	0.00065	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	47	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0061	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0082	0.001	0.00052		
7440-66-6	ZINC	10	0.026	0.02	0.0068		

Data Package ID: *im1409588-1*

Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID:	MWL-MW4-09.18.14
Lab ID:	1409588-10

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 18-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 030SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0024	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	58	1	0.09		
7440-47-3	CHROMIUM	10	0.0013	0.01	0.0013	U	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	21	0.1	0.039		
7439-96-5	MANGANESE	10	0.013	0.002	0.00052		
7440-02-0	NICKEL	10	0.045	0.005	0.0014		
7440-09-7	POTASSIUM	10	4.9	1	0.16		
7782-49-2	SELENIUM	10	0.00079	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	48	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0061	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0086	0.001	0.00052		
7440-66-6	ZINC	10	0.02	0.02	0.0068		

Data Package ID: *im1409588-1*

Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.22.14
Lab ID: 1409588-11

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 22-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 031SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0031	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	57	1	0.09		
7440-47-3	CHROMIUM	10	0.0013	0.01	0.0013	U	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	21	0.1	0.039		
7439-96-5	MANGANESE	10	0.0076	0.002	0.00052		
7440-02-0	NICKEL	10	0.073	0.005	0.0014		
7440-09-7	POTASSIUM	10	5.3	1	0.16		
7782-49-2	SELENIUM	10	0.00066	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	48	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0063	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0081	0.001	0.00052		
7440-66-6	ZINC	10	0.031	0.02	0.0068		

Data Package ID: *im1409588-1*

Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID:	MWL-MW4-09.25.14
Lab ID:	1409588-12

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 25-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 035SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0026	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	58	1	0.09		
7440-47-3	CHROMIUM	10	0.0013	0.01	0.0013	U	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	22	0.1	0.039		
7439-96-5	MANGANESE	10	0.014	0.002	0.00052		
7440-02-0	NICKEL	10	0.036	0.005	0.0014		
7440-09-7	POTASSIUM	10	5.1	1	0.16		
7782-49-2	SELENIUM	10	0.00062	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	49	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0062	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0085	0.001	0.00052		
7440-66-6	ZINC	10	0.02	0.02	0.0068		

Data Package ID: *im1409588-1*

Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-09.29.14
Lab ID: 1409588-13

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 036SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.0024	0.002	0.00025		
7440-39-3	BARIUM	10	0.1	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	58	1	0.09		
7440-47-3	CHROMIUM	10	0.0017	0.01	0.0013	J	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	21	0.1	0.039		
7439-96-5	MANGANESE	10	0.0084	0.002	0.00052		
7440-02-0	NICKEL	10	0.058	0.005	0.0014		
7440-09-7	POTASSIUM	10	5	1	0.16		
7782-49-2	SELENIUM	10	0.00094	0.001	0.00054	J	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	48	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0063	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0081	0.001	0.00052		
7440-66-6	ZINC	10	0.03	0.02	0.0068		

Data Package ID: *im1409588-1*

Dissolved ICPMS Metals

Method SW6020A

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID:	MWL-MW4-DUP-09.29.14
Lab ID:	1409588-14

Analysis ReqCode: 203

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 037SMPL.

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00019	0.0003	0.00017	J	
7440-38-2	ARSENIC	10	0.0024	0.002	0.00025		
7440-39-3	BARIUM	10	0.11	0.001	0.00041		
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	58	1	0.09		
7440-47-3	CHROMIUM	10	0.0032	0.01	0.0013	J	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	21	0.1	0.039		
7439-96-5	MANGANESE	10	0.0081	0.002	0.00052		
7440-02-0	NICKEL	10	0.058	0.005	0.0014		
7440-09-7	POTASSIUM	10	5.1	1	0.16		
7782-49-2	SELENIUM	10	0.0014	0.001	0.00054		
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	49	1	0.24		
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.0063	0.0001	0.000088		
7440-62-2	VANADIUM	10	0.0083	0.001	0.00052		
7440-66-6	ZINC	10	0.029	0.02	0.0068		

Data Package ID: *im1409588-1*

Total MERCURY

Method SW7470A

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: New Mexico Environmental Department, USDOE
Client Project ID: SGE42 SGE42-9 09.29.14
Work Order Number: 1409588 **Final Volume:** 10 g
Reporting Basis: As Received **Matrix:** WATER
Analyst: Brent A. Stanfield **Result Units:** MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Flag	Sample Aliquot
MWL-MW4-09.09.14	1409588-1	9/9/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.16.14	1409588-2	9/16/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.18.14	1409588-3	9/18/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.22.14	1409588-4	9/22/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.25.14	1409588-5	9/25/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.29.14	1409588-6	9/29/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-DUP-09.29.14	1409588-7	9/29/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	UN	10 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *hg1409588-1*

Dissolved MERCURY

Method SW7470A

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: New Mexico Environmental Department, USDOE
Client Project ID: SGE42 SGE42-9 09.29.14
Work Order Number: 1409588 **Final Volume:** 10 g
Reporting Basis: As Received **Matrix:** WATER
Analyst: Brent A. Stanfield **Result Units:** MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	MDL/ LOD/DL	Flag	Sample Aliquot
MWL-MW4-09.09.14	1409588-8	9/9/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.16.14	1409588-9	9/16/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.18.14	1409588-10	9/18/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.22.14	1409588-11	9/22/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.25.14	1409588-12	9/25/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-09.29.14	1409588-13	9/29/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g
MWL-MW4-DUP-09.29.14	1409588-14	9/29/2014	9/30/2014	09/30/2014	N/A	1	0.00006	0.0001	0.00006	U	10 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *hg1409588-1*

ICPMS Metals

Method SW6020A

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Lab ID: IP140930-2MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: N/A
File Name: 013SMPL

Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.017	0.05	0.017	U	
7440-36-0	ANTIMONY	10	0.00017	0.0003	0.00017	U	
7440-38-2	ARSENIC	10	0.00025	0.002	0.00025	U	
7440-39-3	BARIUM	10	0.00041	0.001	0.00041	U	
7440-41-7	BERYLLIUM	10	0.00013	0.0005	0.00013	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-70-2	CALCIUM	10	0.09	1	0.09	U	
7440-47-3	CHROMIUM	10	0.0013	0.01	0.0013	U	
7440-48-4	COBALT	10	0.00017	0.001	0.00017	U	
7440-50-8	COPPER	10	0.0028	0.01	0.0028	U	
7439-89-6	IRON	10	0.016	0.1	0.016	U	
7439-92-1	LEAD	10	0.00025	0.0005	0.00025	U	
7439-95-4	MAGNESIUM	10	0.039	0.1	0.039	U	
7439-96-5	MANGANESE	10	0.00052	0.002	0.00052	U	
7440-02-0	NICKEL	10	0.0014	0.005	0.0014	U	
7440-09-7	POTASSIUM	10	0.16	1	0.16	U	
7782-49-2	SELENIUM	10	0.00054	0.001	0.00054	U	
7440-22-4	SILVER	10	0.00004	0.0001	0.00004	U	
7440-23-5	SODIUM	10	0.24	1	0.24	U	
7440-28-0	THALLIUM	10	0.000042	0.0002	0.000042	U	
7440-61-1	URANIUM	10	0.000088	0.0001	0.000088	U	
7440-62-2	VANADIUM	10	0.00052	0.001	0.00052	U	
7440-66-6	ZINC	10	0.0068	0.02	0.0068	U	

Data Package ID: *im1409588-1*

ICPMS Metals

Method SW6020A

Laboratory Control Sample

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Lab ID: IP140930-2LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 09/30/2014
Date Analyzed: 09/30/2014
Prep Method: SW3005A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: N/A
File Name: 014SMPL.

Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7429-90-5	ALUMINUM	5	5.04	0.05		101	80 - 120%
7440-36-0	ANTIMONY	0.03	0.0289	0.0003		96	80 - 120%
7440-38-2	ARSENIC	0.1	0.101	0.002		101	80 - 120%
7440-39-3	BARIUM	0.1	0.103	0.001		103	80 - 120%
7440-41-7	BERYLLIUM	0.05	0.0454	0.0005		91	80 - 120%
7440-43-9	CADMIUM	0.03	0.0292	0.0003		97	80 - 120%
7440-70-2	CALCIUM	10	9.49	1		95	80 - 120%
7440-47-3	CHROMIUM	0.5	0.504	0.01		101	80 - 120%
7440-48-4	COBALT	0.1	0.105	0.001		105	80 - 120%
7440-50-8	COPPER	1	0.972	0.01		97	80 - 120%
7439-89-6	IRON	5	5.21	0.1		104	80 - 120%
7439-92-1	LEAD	0.05	0.0482	0.0005		96	80 - 120%
7439-95-4	MAGNESIUM	10	9.93	0.1		99	80 - 120%
7439-96-5	MANGANESE	0.1	0.101	0.002		101	80 - 120%
7440-02-0	NICKEL	0.5	0.53	0.005		106	80 - 120%
7440-09-7	POTASSIUM	5	4.65	1		93	80 - 120%
7782-49-2	SELENIUM	0.1	0.11	0.001		110	80 - 120%
7440-22-4	SILVER	0.01	0.0104	0.0001		104	80 - 120%
7440-23-5	SODIUM	10	9.9	1		99	80 - 120%
7440-28-0	THALLIUM	0.002	0.00199	0.0002		100	80 - 120%
7440-61-1	URANIUM	0.01	0.00955	0.0001		96	80 - 120%
7440-62-2	VANADIUM	0.1	0.0978	0.001		98	80 - 120%
7440-66-6	ZINC	2	1.93	0.02		97	80 - 120%

Data Package ID: *im1409588-1*

ICPMS Metals

Method SW6020A

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USD
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-DUP-09.29.14
LabID: 1409588-7MS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received

Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
File Name: 026SMPL.

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7429-90-5	ALUMINUM	0.017	U	5.3		0.05	5	106	75 - 125%
7440-36-0	ANTIMONY	0.00017	U	0.0299		0.0003	0.03	100	75 - 125%
7440-38-2	ARSENIC	0.0029		0.108		0.002	0.1	105	75 - 125%
7440-39-3	BARIUM	0.11		0.22		0.001	0.1	108	75 - 125%
7440-41-7	BERYLLIUM	0.00013	U	0.0488		0.0005	0.05	98	75 - 125%
7440-43-9	CADMIUM	0.00012	U	0.0302		0.0003	0.03	101	75 - 125%
7440-70-2	CALCIUM	61		64.8		1	10	38	75 - 125%
7440-47-3	CHROMIUM	0.0042	J	0.528		0.01	0.5	105	75 - 125%
7440-48-4	COBALT	0.00017	U	0.107		0.001	0.1	107	75 - 125%
7440-50-8	COPPER	0.0028	U	0.998		0.01	1	100	75 - 125%
7439-89-6	IRON	0.072	J	5.44		0.1	5	107	75 - 125%
7439-92-1	LEAD	0.00025	U	0.052		0.0005	0.05	104	75 - 125%
7439-95-4	MAGNESIUM	22		31.1		0.1	10	95	75 - 125%
7439-96-5	MANGANESE	0.0083		0.114		0.002	0.1	105	75 - 125%
7440-02-0	NICKEL	0.061		0.6		0.005	0.5	108	75 - 125%
7440-09-7	POTASSIUM	5.3		10.1		1	5	96	75 - 125%
7782-49-2	SELENIUM	0.00073	J	0.114		0.001	0.1	113	75 - 125%
7440-22-4	SILVER	0.00055		0.0104		0.0001	0.01	98	75 - 125%
7440-23-5	SODIUM	49		57.5		1	10	82	75 - 125%
7440-28-0	THALLIUM	0.000042	U	0.00223		0.0002	0.002	112	75 - 125%
7440-61-1	URANIUM	0.0067		0.0164		0.0001	0.01	97	75 - 125%
7440-62-2	VANADIUM	0.0082		0.111		0.001	0.1	103	75 - 125%
7440-66-6	ZINC	0.037		2.01		0.02	2	99	75 - 125%

Data Package ID: *im1409588-1*

ICPMS Metals

Method SW6020A

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USD
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-DUP-09.29.14
LabID: 1409588-7MSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: SW3005 Rev A

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received

Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
File Name: 027SMPL.

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7429-90-5	ALUMINUM	5.19		5	104	0.05	20	2
7440-36-0	ANTIMONY	0.0298		0.03	99	0.0003	20	0
7440-38-2	ARSENIC	0.109		0.1	106	0.002	20	1
7440-39-3	BARIUM	0.22		0.1	108	0.001	20	0
7440-41-7	BERYLLIUM	0.0485		0.05	97	0.0005	20	1
7440-43-9	CADMIUM	0.0294		0.03	98	0.0003	20	3
7440-70-2	CALCIUM	68.2		10	72	1	20	5
7440-47-3	CHROMIUM	0.536		0.5	106	0.01	20	2
7440-48-4	COBALT	0.111		0.1	111	0.001	20	3
7440-50-8	COPPER	1.01		1	101	0.01	20	1
7439-89-6	IRON	5.52		5	109	0.1	20	2
7439-92-1	LEAD	0.0523		0.05	105	0.0005	20	1
7439-95-4	MAGNESIUM	32		10	104	0.1	20	3
7439-96-5	MANGANESE	0.115		0.1	107	0.002	20	2
7440-02-0	NICKEL	0.613		0.5	110	0.005	20	2
7440-09-7	POTASSIUM	10.3		5	101	1	20	2
7782-49-2	SELENIUM	0.115		0.1	114	0.001	20	1
7440-22-4	SILVER	0.0102		0.01	96	0.0001	20	2
7440-23-5	SODIUM	59		10	97	1	20	3
7440-28-0	THALLIUM	0.00224		0.002	112	0.0002	20	0
7440-61-1	URANIUM	0.0169		0.01	102	0.0001	20	3
7440-62-2	VANADIUM	0.113		0.1	104	0.001	20	1
7440-66-6	ZINC	2.04		2	100	0.02	20	1

Data Package ID: *im1409588-1*

ICPMS Metals

Method SW6020

Duplicate Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-DUP-09.29.14
Lab ID: 1409588-7D

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09/29/2014
Date Extracted: 09/30/2014
Date Analyzed: 09/30/2014

Prep Batch: IP140930-2
QCBatchID: IP140930-2-1
Run ID: IM140930-11A2
Cleanup: NONE
Basis: As Received
File Name: 024SMPL.

Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Sample Result	Samp Qual	Duplicate Result	Dup Qual	Reporting Limit	Dilution Factor	RPD	RPD Limit
7429-90-5	ALUMINUM	0.017	U	0.0166	U	0.05	10		20
7440-36-0	ANTIMONY	0.00017	U	0.00024	J	0.0003	10		20
7440-38-2	ARSENIC	0.0029		0.00281		0.002	10		20
7440-39-3	BARIUM	0.11		0.106		0.001	10	5	20
7440-41-7	BERYLLIUM	0.00013	U	0.000131	U	0.0005	10		20
7440-43-9	CADMIUM	0.00012	U	0.000115	U	0.0003	10		20
7440-70-2	CALCIUM	61		60.6		1	10	1	20
7440-47-3	CHROMIUM	0.0042	J	0.00596	J	0.01	10		20
7440-48-4	COBALT	0.00017	U	0.000168	U	0.001	10		20
7440-50-8	COPPER	0.0028	U	0.00285	U	0.01	10		20
7439-89-6	IRON	0.072	J	0.0528	J	0.1	10		20
7439-92-1	LEAD	0.00025	U	0.000248	U	0.0005	10		20
7439-95-4	MAGNESIUM	22		22.1		0.1	10	2	20
7439-96-5	MANGANESE	0.0083		0.00893		0.002	10		20
7440-02-0	NICKEL	0.061		0.0593		0.005	10	2	20
7440-09-7	POTASSIUM	5.3		5.06		1	10	4	20
7782-49-2	SELENIUM	0.00073	J	0.000545	U	0.001	10		20
7440-22-4	SILVER	0.00055		0.00006	J*	0.0001	10	161	20
7440-23-5	SODIUM	49		49.1		1	10	0	20
7440-28-0	THALLIUM	0.000042	U	0.0000422	U	0.0002	10		20
7440-61-1	URANIUM	0.0067		0.00638		0.0001	10	5	20
7440-62-2	VANADIUM	0.0082		0.00838		0.001	10	2	20
7440-66-6	ZINC	0.037		0.0373		0.02	10		20

Data Package ID: *im1409588-1*

Mercury

Method SW7470A

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Lab ID: HG140930-2MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14

Prep Batch: HG140930-2
QCBatchID: HG140930-2-1
Run ID: HG140930-1A3
Cleanup: NONE
Basis: N/A
File Name: HG140930-1

Sample Aliquot: 10 g
Final Volume: 10 g
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit/ LOQ	MDL	Result Qualifier	EPA Qualifier
7439-97-6	MERCURY	1	0.00006	0.0001	0.00006	U	

Data Package ID: *hg1409588-1*

Mercury

Method SW7470A

Laboratory Control Sample

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Lab ID: HG140930-2LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 09/30/2014
Date Analyzed: 09/30/2014
Prep Method: METHOD

Prep Batch: HG140930-2
QCBatchID: HG140930-2-1
Run ID: HG140930-1A3
Cleanup: NONE
Basis: N/A
File Name: HG140930-1

Sample Aliquot: 10 g
Final Volume: 10 g
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7439-97-6	MERCURY	0.001	0.000968	0.0001		97	80 - 120%

Data Package ID: *hg1409588-1*

Mercury

Method SW7470A

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USD
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-DUP-09.29.14
LabID: 1409588-7MS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: METHOD

Prep Batch: HG140930-2
QCBatchID: HG140930-2-1
Run ID: HG140930-1A3
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10 g
Final Volume: 10 g
Result Units: MG/L
File Name: HG140930-1

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
7439-97-6	MERCURY	0.00006	U	0.00155	N	0.0001	0.002	78	80 - 120%

Field ID: MWL-MW4-DUP-09.29.14
LabID: 1409588-7MSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 29-Sep-14
Date Extracted: 30-Sep-14
Date Analyzed: 30-Sep-14
Prep Method: METHOD

Prep Batch: HG140930-2
QCBatchID: HG140930-2-1
Run ID: HG140930-1A3
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10 g
Final Volume: 10 g
Result Units: MG/L
File Name: HG140930-1

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
7439-97-6	MERCURY	0.00151	N	0.002	76	0.0001	20	3

Data Package ID: *hg1409588-1*

Mercury

Method SW7470

Duplicate Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1409588
Client Name: New Mexico Environmental Department, USDOE
ClientProject ID: SGE42 SGE42-9 09.29.14

Field ID: MWL-MW4-DUP-09.29.14
Lab ID: 1409588-7D

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09/29/2014
Date Extracted: 09/30/2014
Date Analyzed: 09/30/2014

Prep Batch: HG140930-2
QCBatchID: HG140930-2-1
Run ID: HG140930-1A3
Cleanup: NONE
Basis: As Received
File Name: HG140930-1

Sample Aliquot: 10 g
Final Volume: 10 g
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Sample Result	Samp Qual	Duplicate Result	Dup Qual	Reporting Limit	Dilution Factor	RPD	RPD Limit
7439-97-6	MERCURY	0.00006	U	0.00006	U	0.0001	1		20

Data Package ID: *hg1409588-1*