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**Groundwater Monitoring at Sandia National Laboratories/New Mexico Technical Area-V
Conducted by NMED DOE OB for FFY 2012 Q-1**

The New Mexico Environment Department (NMED) DOE Oversight Bureau (Bureau) has compiled and assessed groundwater data collected during November 2011. The Bureau collected groundwater samples from Technical Area-V (TAV) groundwater monitoring wells AVN-1, LWDS-MW1, LWDS-MW2, TAV-MW6, TAV-MW10, TAV-MW11, TAV-MW12, TAV-MW13 and TAV-MW14. Split samples were collected using standard Sandia National Laboratories/New Mexico (SNL/NM) sampling procedures and equipment. Bureau samples were submitted to an independent analytical laboratory where they were analyzed for metals, nitrates, perchlorate and volatile organic compounds. Nitrate-nitrite as N was detected above the EPA MCL of 10 mg/L at monitoring wells TAV-MW12 and TAV-MW14. Trichloroethylene (TCE) was also detected above the EPA MCL of 5 µg/L at monitoring wells LWDS-MW1, TAV-MW6, TAV-MW10, TAV-MW12 and TAV-MW14.

Data Assessment

Data results are compared to applicable Maximum Contaminant Levels (MCLs) established by the U.S. Environmental Protection Agency (EPA) National Primary Drinking Water Regulations (40 CFR 141), National Primary Drinking Water Standards, EPA, July 2002. Perchlorate results are compared to the *Compliance Order on Consent (COOC) Pursuant to the New Mexico Hazardous Waste Act 74-4-10: Sandia National Laboratories Consent Order*, New Mexico Environment Department, April 19, 2004.

Results

Analytical results for total unfiltered Target Compound List (TAL) metals plus uranium and dissolved filtered TAL metals plus uranium are presented in Table-1 and Table-2, respectively. All metal concentrations were below established MCLs.

Analytical results for nitrate-nitrite as Nitrogen and perchlorate are presented in Table-3. Nitrate-nitrite as N concentrations were detected above the EPA MCL of 10 mg/L at monitoring wells TAV-MW12 (11.6 mg/L) and TAV-MW14 (11.3 mg/L). No perchlorate samples were detected above the method detection limit (MDL).

Analytical results for volatile organic compounds (VOCs) detected above the MDLs are presented in Table-4. Trichloroethylene (TCE) was detected above the EPA MCL of 5 µg/L at

monitoring wells LWDS-MW1 (16 µg/L), TAV-MW6 (16 µg/L), TAV-MW10 (15 µg/L), TAV-MW12 (5.7 µg/L) and TAV-MW14 (6.7 µg/L).

Response

Questions or comments should be addressed to Chris Armijo by phone at (505) 383-2070, by e-mail at chris.armijo1@state.nm.us, or to the address in the letterhead.

Enclosure: (1) Table-1 Total TAL Metals plus Uranium
(2) Table-2 Dissolved TAL Metals plus Uranium
(3) Table-3 Nitrate-Nitrite as Nitrogen and Perchlorate Results
(4) Table-4 Detected Volatile Organic Compounds Results

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File: SGE42.Groundwater Monitoring. TAV. FFY 2012 Q-1

Acknowledgment:

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Table-1 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Total TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
AVN-1 16-Nov-11	Aluminum	0.3	NE	0.03	0.013		SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0016	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.074	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	39.6	NE	0.1	0.068		SW-846:6020
	Chromium	0.041	0.1	0.01	0.0033		SW-846:6020
	Cobalt	0.00024	NE	0.002	0.00022	B	SW-846:6020
	Copper	0.0011	1.3	0.001	0.00045		SW-846:6020
	Iron	0.41	NE	0.05	0.02		SW-846:6020
	Lead	0.00038	0.015	0.003	0.00017	B	SW-846:6020
	Lithium	0.082	NE	0.005	0.00069		SW-846:6020
	Magnesium	9.2	NE	0.05	0.0052		SW-846:6020
	Manganese	0.0085	NE	0.002	0.00024		SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.008	NE	0.005	0.0004		SW-846:6020
	Potassium	3.4	NE	0.1	0.042		SW-846:6020
	Selenium	0.002	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	11.4	NE	5	0.36		SW-846:6020
	Silver	0.00011	NE	0.002	0.00004	B	SW-846:6020
	Sodium	34.8	NE	0.05	0.015		SW-846:6020
	Strontium	0.4	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.002	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.009	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.012	NE	0.01	0.0083		SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-1 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Total TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
LWDS-MW1 21-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW-846:6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW-846:6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW-846:6010B
	Barium	0.088	2	0.005	0.0025		SW-846:6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW-846:6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW-846:6010B
	Calcium	70.8	NE	0.5	0.05		SW-846:6010B
	Chromium	0.0012	0.1	0.008	0.0012	U	SW-846:6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW-846:6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW-846:6010B
	Iron	0.02	NE	0.1	0.02	B	SW-846:6010B
	Lead	0.0025	0.015	0.005	0.0025	U	SW-846:6010B
	Magnesium	20.2	NE	0.5	0.04		SW-846:6010B
	Manganese	0.0025	NE	0.005	0.0025	U	SW-846:6010B
	Mercury	0.00018	0.002	0.0002	0.0001	B	SW-846:7470A
	Nickel	0.0024	NE	0.005	0.0024	U	SW-846:6010B
	Potassium	3.3	NE	1	0.093	J	SW-846:6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW-846:6010B
	Silver	0.00084	NE	0.005	0.00084	U	SW-846:6010B
	Sodium	68.1	NE	1	0.25		SW-846:6010B
	Thallium	0.009	0.002	0.02	0.009	U	SW-846:6010B
Uranium	0.0033	0.03	0.001	0.0002		SW-846:6020	
Vanadium	0.0045	NE	0.005	0.0019	B	SW-846:6010B	
Zinc	0.0064	NE	0.01	0.003	B	SW-846:6010B	

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Table-1 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Total TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
LWDS-MW2 15-Nov-11	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0013	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.065	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	42.2	NE	0.1	0.068		SW-846:6020
	Chromium	0.0036	0.1	0.01	0.0033	B	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00045	1.3	0.001	0.00045	U	SW-846:6020
	Iron	0.022	NE	0.05	0.02	B	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.11	NE	0.005	0.00069		SW-846:6020
	Magnesium	12.7	NE	0.05	0.0052		SW-846:6020
	Manganese	0.00024	NE	0.002	0.00024	U	SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	2.8	NE	0.1	0.042		SW-846:6020
	Selenium	0.0021	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	11.4	NE	5	0.36		SW-846:6020
	Silver	0.0026	NE	0.002	0.00004		SW-846:6020
	Sodium	40.9	NE	0.05	0.015		SW-846:6020
	Strontium	0.55	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0029	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0073	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

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Table-1 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Total TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
LWDS-MW2 15-Nov-11 DUP	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0012	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.067	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	42.3	NE	0.1	0.068		SW-846:6020
	Chromium	0.0037	0.1	0.01	0.0033	B	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00048	1.3	0.001	0.00045	B	SW-846:6020
	Iron	0.024	NE	0.05	0.02	B	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.11	NE	0.005	0.00069		SW-846:6020
	Magnesium	12.5	NE	0.05	0.0052		SW-846:6020
	Manganese	0.00024	NE	0.002	0.00024	U	SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	2.8	NE	0.1	0.042		SW-846:6020
	Selenium	0.002	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	11.4	NE	5	0.36		SW-846:6020
	Silver	0.0023	NE	0.002	0.00004		SW-846:6020
	Sodium	40.9	NE	0.05	0.015		SW-846:6020
	Strontium	0.57	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0029	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0073	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

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Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW6 17-Nov-11	Aluminum	0.16	NE	0.03	0.013		SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.00095	0.01	0.01	0.00095	U	SW-846:6020
	Barium	0.062	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	57.7	NE	0.1	0.068		SW-846:6020
	Chromium	0.0033	0.1	0.01	0.0033	U	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00045	1.3	0.001	0.00045	U	SW-846:6020
	Iron	0.15	NE	0.05	0.02		SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.17	NE	0.005	0.00069		SW-846:6020
	Magnesium	18.1	NE	0.05	0.0052		SW-846:6020
	Manganese	0.0025	NE	0.002	0.00024		SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.00042	NE	0.005	0.0004	B	SW-846:6020
	Potassium	3.7	NE	0.1	0.042		SW-846:6020
	Selenium	0.0038	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	14.5	NE	5	0.36		SW-846:6020
	Silver	0.00004	NE	0.002	0.00004	U	SW-846:6020
	Sodium	57.2	NE	0.05	0.015		SW-846:6020
	Strontium	0.77	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0037	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0061	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

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Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW10 29-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW-846:6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW-846:6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW-846:6010B
	Barium	0.063	2	0.005	0.0025		SW-846:6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW-846:6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW-846:6010B
	Calcium	63.1	NE	0.5	0.05		SW-846:6010B
	Chromium	0.0012	0.1	0.008	0.0012	U	SW-846:6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW-846:6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW-846:6010B
	Iron	0.02	NE	0.1	0.02	U	SW-846:6010B
	Lead	0.0025	0.015	0.005	0.0025	U	SW-846:6010B
	Magnesium	17.1	NE	0.5	0.04		SW-846:6010B
	Manganese	0.0025	NE	0.005	0.0025	U	SW-846:6010B
	Mercury	0.00026	0.002	0.0002	0.0001		SW-846:7470A
	Nickel	0.0024	NE	0.005	0.0024	U	SW-846:6010B
	Potassium	4.4	NE	1	0.093		SW-846:6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW-846:6010B
	Silver	0.00098	NE	0.005	0.00084	B	SW-846:6010B
	Sodium	58.8	NE	1	0.25		SW-846:6010B
	Thallium	0.009	0.002	0.02	0.009	U	SW-846:6010B
Uranium	0.0037	0.03	0.001	0.0002		SW-846:6020	
Vanadium	0.0054	NE	0.005	0.0019		SW-846:6010B	
Zinc	0.003	NE	0.01	0.003	U	SW-846:6010B	

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TAV-MW11 7-Nov-11	Aluminum	0.017	NE	0.03	0.013	B, J	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0014	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.07	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	47.3	NE	0.1	0.068		SW-846:6020
	Chromium	0.0034	0.1	0.01	0.0033	B	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.0005	1.3	0.001	0.00045	B	SW-846:6020
	Iron	0.061	NE	0.05	0.02		SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.14	NE	0.005	0.00069		SW-846:6020
	Magnesium	13.9	NE	0.05	0.0052		SW-846:6020
	Manganese	0.02	NE	0.002	0.00024		SW-846:6020
	Mercury	7.60E-05	0.002	0.0002	0.00006	B	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	3.7	NE	0.1	0.042		SW-846:6020
	Selenium	0.0027	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	12	NE	5	0.36		SW-846:6020
	Silver	0.00004	NE	0.002	0.00004	U	SW-846:6020
	Sodium	47.4	NE	0.05	0.015		SW-846:6020
	Strontium	0.59	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.003	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0059	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

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TAV-MW12 28-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW-846:6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW-846:6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW-846:6010B
	Barium	0.074	2	0.005	0.0025		SW-846:6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW-846:6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW-846:6010B
	Calcium	58.1	NE	0.5	0.05		SW-846:6010B
	Chromium	0.0013	0.1	0.008	0.0012	B	SW-846:6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW-846:6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW-846:6010B
	Iron	0.02	NE	0.1	0.02	U	SW-846:6010B
	Lead	0.0025	0.015	0.005	0.0025	U	SW-846:6010B
	Magnesium	17.8	NE	0.5	0.04		SW-846:6010B
	Manganese	0.0028	NE	0.005	0.0025	B	SW-846:6010B
	Mercury	0.0001	0.002	0.0002	0.0001	B	SW-846:7470A
	Nickel	0.0024	NE	0.005	0.0024	U	SW-846:6010B
	Potassium	3.9	NE	1	0.093		SW-846:6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW-846:6010B
	Silver	0.00084	NE	0.005	0.00084	U	SW-846:6010B
	Sodium	58.3	NE	1	0.25		SW-846:6010B
	Thallium	0.009	0.002	0.02	0.009	U	SW-846:6010B
Uranium	0.0049	0.03	0.001	0.0002		SW-846:6020	
Vanadium	0.0037	NE	0.005	0.0019	B	SW-846:6010B	
Zinc	0.003	NE	0.01	0.003	U	SW-846:6010B	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-1 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Total TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW13 7-Nov-11	Aluminum	0.052	NE	0.03	0.013	J	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0012	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.059	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	45.2	NE	0.1	0.068		SW-846:6020
	Chromium	0.0033	0.1	0.01	0.0033	U	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00053	1.3	0.001	0.00045	B	SW-846:6020
	Iron	0.083	NE	0.05	0.02		SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.13	NE	0.005	0.00069		SW-846:6020
	Magnesium	13.2	NE	0.05	0.0052		SW-846:6020
	Manganese	0.013	NE	0.002	0.00024		SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	3.3	NE	0.1	0.042		SW-846:6020
	Selenium	0.0022	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	12	NE	5	0.36		SW-846:6020
	Silver	0.00004	NE	0.002	0.00004	U	SW-846:6020
	Sodium	44.2	NE	0.05	0.015		SW-846:6020
	Strontium	0.6	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0038	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0052	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-1 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Total TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW14 22-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW-846:6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW-846:6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW-846:6010B
	Barium	0.064	2	0.005	0.0025		SW-846:6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW-846:6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW-846:6010B
	Calcium	65.4	NE	0.5	0.05		SW-846:6010B
	Chromium	0.0012	0.1	0.008	0.0012	U	SW-846:6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW-846:6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW-846:6010B
	Iron	0.02	NE	0.1	0.02	U	SW-846:6010B
	Lead	0.0025	0.015	0.005	0.0025	U	SW-846:6010B
	Magnesium	18.6	NE	0.5	0.04		SW-846:6010B
	Manganese	0.0025	NE	0.005	0.0025	U	SW-846:6010B
	Mercury	0.0001	0.002	0.0002	0.0001	U	SW-846:7470A
	Nickel	0.0024	NE	0.005	0.0024	U	SW-846:6010B
	Potassium	4.5	NE	1	0.093	J	SW-846:6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW-846:6010B
	Silver	0.00092	NE	0.005	0.00084	B	SW-846:6010B
	Sodium	64.1	NE	1	0.25		SW-846:6010B
Thallium	0.009	0.002	0.02	0.009	U	SW-846:6010B	
Uranium	0.0041	0.03	0.001	0.0002		SW-846:6020	
Vanadium	0.0043	NE	0.005	0.0019	B	SW-846:6010B	
Zinc	0.003	NE	0.01	0.003	U	SW-846:6010B	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
AVN-1 16-Nov-11	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0011	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.071	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	38.9	NE	0.1	0.068		SW-846:6020
	Chromium	0.0033	0.1	0.01	0.0033	U	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00045	1.3	0.001	0.00045	U	SW-846:6020
	Iron	0.02	NE	0.05	0.02	U	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.083	NE	0.005	0.00069		SW-846:6020
	Magnesium	8.6	NE	0.05	0.0052		SW-846:6020
	Manganese	0.00089	NE	0.002	0.00024	B	SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0067	NE	0.005	0.0004		SW-846:6020
	Potassium	3.2	NE	0.1	0.042		SW-846:6020
	Selenium	0.0018	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	10.6	NE	5	0.36		SW-846:6020
	Silver	0.00004	NE	0.002	0.00004	U	SW-846:6020
	Sodium	32.9	NE	0.05	0.015		SW-846:6020
	Strontium	0.39	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0019	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.006	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
LWDS-MW1 21-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW846-6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW846-6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW846-6010B
	Barium	0.088	2	0.005	0.0025		SW846-6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW846-6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW846-6010B
	Calcium	69.7	NE	0.5	0.05	J	SW846-6010B
	Chromium	0.0012	0.1	0.008	0.0012	B	SW846-6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW846-6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW846-6010B
	Iron	0.02	NE	0.1	0.02	U	SW846-6010B
	Lead	0.0048	0.015	0.005	0.0025	B	SW846-6010B
	Magnesium	20.2	NE	0.5	0.04		SW846-6010B
	Manganese	0.0025	NE	0.005	0.0025	U	SW846-6010B
	Mercury	0.00021	0.002	0.0002	0.0001		SW-846:7471A
	Nickel	0.0024	NE	0.005	0.0024	U	SW846-6010B
	Potassium	3.3	NE	1	0.093	J	SW846-6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW846-6010B
	Silver	0.00084	NE	0.005	0.00084	U	SW846-6010B
	Sodium	66.9	NE	1	0.25	J	SW846-6010B
Thallium	0.009	0.002	0.02	0.009	U	SW846-6010B	
Uranium	0.0036	0.03	0.001	0.0002		SW846-6020	
Vanadium	0.0044	NE	0.005	0.0019	B	SW846-6010B	
Zinc	0.0048	NE	0.01	0.003	B	SW846-6010B	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
LWDS-MW2 15-Nov-11	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0013	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.067	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	42.2	NE	0.1	0.068		SW-846:6020
	Chromium	0.0033	0.1	0.01	0.0033	U	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00045	1.3	0.001	0.00045	U	SW-846:6020
	Iron	0.02	NE	0.05	0.02	U	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.11	NE	0.005	0.00069		SW-846:6020
	Magnesium	11.9	NE	0.05	0.0052		SW-846:6020
	Manganese	0.00024	NE	0.002	0.00024	U	SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	2.7	NE	0.1	0.042		SW-846:6020
	Selenium	0.0031	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	11	NE	5	0.36		SW-846:6020
	Silver	0.0011	NE	0.002	0.00004	B	SW-846:6020
	Sodium	38	NE	0.05	0.015		SW-846:6020
	Strontium	0.57	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.003	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0071	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
LWDS-MW2 15-Nov-11 DUP	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0013	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.064	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	42.3	NE	0.1	0.068		SW-846:6020
	Chromium	0.0034	0.1	0.01	0.0033	B	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00045	1.3	0.001	0.00045	U	SW-846:6020
	Iron	0.02	NE	0.05	0.02	U	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.11	NE	0.005	0.00069		SW-846:6020
	Magnesium	12.4	NE	0.05	0.0052		SW-846:6020
	Manganese	0.00024	NE	0.002	0.00024	U	SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	2.7	NE	0.1	0.042		SW-846:6020
	Selenium	0.0021	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	11.9	NE	5	0.36		SW-846:6020
	Silver	0.0011	NE	0.002	0.00004	B	SW-846:6020
	Sodium	40.1	NE	0.05	0.015		SW-846:6020
	Strontium	0.55	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0028	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0072	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW6 17-Nov-11	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.00095	0.01	0.01	0.00095	U	SW-846:6020
	Barium	0.061	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	59.1	NE	0.1	0.068		SW-846:6020
	Chromium	0.0033	0.1	0.01	0.0033	U	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00045	1.3	0.001	0.00045	U	SW-846:6020
	Iron	0.021	NE	0.05	0.02	B	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.17	NE	0.005	0.00069		SW-846:6020
	Magnesium	17.2	NE	0.05	0.0052		SW-846:6020
	Manganese	0.00024	NE	0.002	0.00024	U	SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	3.6	NE	0.1	0.042		SW-846:6020
	Selenium	0.0037	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	11.3	NE	5	0.36		SW-846:6020
	Silver	0.00004	NE	0.002	0.00004	U	SW-846:6020
	Sodium	54.8	NE	0.05	0.015		SW-846:6020
	Strontium	0.77	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0036	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0059	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW10 29-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW846-6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW846-6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW846-6010B
	Barium	0.071	2	0.005	0.0025		SW846-6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW846-6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW846-6010B
	Calcium	62.6	NE	0.5	0.05		SW846-6010B
	Chromium	0.0012	0.1	0.008	0.0012	U	SW846-6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW846-6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW846-6010B
	Iron	0.02	NE	0.1	0.02	U	SW846-6010B
	Lead	0.0025	0.015	0.005	0.0025	U	SW846-6010B
	Magnesium	17	NE	0.5	0.04		SW846-6010B
	Manganese	0.0025	NE	0.005	0.0025	U	SW846-6010B
	Mercury	0.0001	0.002	0.0002	0.0001	U	SW-846:7471A
	Nickel	0.0024	NE	0.005	0.0024	U	SW846-6010B
	Potassium	4.7	NE	1	0.093	J	SW846-6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW846-6010B
	Silver	0.00084	NE	0.005	0.00084	U	SW846-6010B
	Sodium	57.9	NE	1	0.25		SW846-6010B
Thallium	0.009	0.002	0.02	0.009	U	SW846-6010B	
Uranium	0.0034	0.03	0.001	0.0002		SW846-6020	
Vanadium	0.0059	NE	0.005	0.0019		SW846-6010B	
Zinc	0.003	NE	0.01	0.003	U	SW846-6010B	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW11 10-Nov-11	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0012	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.07	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	49	NE	0.1	0.068		SW-846:6020
	Chromium	0.0036	0.1	0.01	0.0033	B	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.0015	1.3	0.001	0.00045		SW-846:6020
	Iron	0.044	NE	0.05	0.02	B	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.14	NE	0.005	0.00069		SW-846:6020
	Magnesium	15.4	NE	0.05	0.0052		SW-846:6020
	Manganese	0.0021	NE	0.002	0.00024		SW-846:6020
	Mercury	6.60E-05	0.002	0.0002	0.00006	B	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	4.1	NE	0.1	0.042		SW-846:6020
	Selenium	0.0025	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	11.7	NE	5	0.36		SW-846:6020
	Silver	0.00004	NE	0.002	0.00004	U	SW-846:6020
	Sodium	52.8	NE	0.05	0.015		SW-846:6020
	Strontium	0.6	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.003	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0066	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW12 28-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW846-6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW846-6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW846-6010B
	Barium	0.071	2	0.005	0.0025		SW846-6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW846-6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW846-6010B
	Calcium	55.5	NE	0.5	0.05		SW846-6010B
	Chromium	0.0012	0.1	0.008	0.0012	B	SW846-6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW846-6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW846-6010B
	Iron	0.02	NE	0.1	0.02	U	SW846-6010B
	Lead	0.0047	0.015	0.005	0.0025	B,J	SW846-6010B
	Magnesium	18	NE	0.5	0.04		SW846-6010B
	Manganese	0.0025	NE	0.005	0.0025	U	SW846-6010B
	Mercury	0.0001	0.002	0.0002	0.0001	U	SW-846:7471A
	Nickel	0.0024	NE	0.005	0.0024	U	SW846-6010B
	Potassium	3.9	NE	1	0.093	J	SW846-6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW846-6010B
	Silver	0.00084	NE	0.005	0.00084	U	SW846-6010B
	Sodium	54	NE	1	0.25		SW846-6010B
Thallium	0.009	0.002	0.02	0.009	U	SW846-6010B	
Uranium	0.0048	0.03	0.001	0.0002		SW846-6020	
Vanadium	0.0052	NE	0.005	0.0019		SW846-6010B	
Zinc	0.003	NE	0.01	0.003	U	SW846-6010B	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

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Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW13 7-Nov-11	Aluminum	0.013	NE	0.03	0.013	U	SW-846:6020
	Antimony	0.0017	0.006	0.005	0.0017	U	SW-846:6020
	Arsenic	0.0013	0.01	0.01	0.00095	B	SW-846:6020
	Barium	0.06	2	0.002	0.0002		SW-846:6020
	Beryllium	0.00035	0.004	0.0005	0.00035	U	SW-846:6020
	Cadmium	0.0001	0.005	0.0005	0.0001	U	SW-846:6020
	Calcium	45.2	NE	0.1	0.068		SW-846:6020
	Chromium	0.0033	0.1	0.01	0.0033	U	SW-846:6020
	Cobalt	0.00022	NE	0.002	0.00022	U	SW-846:6020
	Copper	0.00045	1.3	0.001	0.00045	U	SW-846:6020
	Iron	0.04	NE	0.05	0.02	B	SW-846:6020
	Lead	0.00017	0.015	0.003	0.00017	U	SW-846:6020
	Lithium	0.13	NE	0.005	0.00069		SW-846:6020
	Magnesium	13.8	NE	0.05	0.0052		SW-846:6020
	Manganese	0.00026	NE	0.002	0.00024	B	SW-846:6020
	Mercury	0.00006	0.002	0.0002	0.00006	U	SW-846:7470A
	Nickel	0.0004	NE	0.005	0.0004	U	SW-846:6020
	Potassium	3.4	NE	0.1	0.042		SW-846:6020
	Selenium	0.0019	0.05	0.005	0.0016	B	SW-846:6020
	Silicon	13.1	NE	5	0.36		SW-846:6020
	Silver	0.00004	NE	0.002	0.00004	U	SW-846:6020
	Sodium	46.5	NE	0.05	0.015		SW-846:6020
	Strontium	0.6	NE	0.005	0.001		SW-846:6020
	Thallium	0.00055	0.002	0.002	0.00055	U	SW-846:6020
Uranium	0.0037	0.03	0.001	0.00023		SW-846:6020	
Vanadium	0.0058	NE	0.01	0.0024	B	SW-846:6020	
Zinc	0.0083	NE	0.01	0.0083	U	SW-846:6020	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-2 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Dissolved TAL Metals plus Uranium

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Quantitation Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TAV-MW14 22-Nov-11	Aluminum	0.048	NE	0.2	0.048	U	SW846-6010B
	Antimony	0.0098	0.006	0.02	0.0098	U	SW846-6010B
	Arsenic	0.012	0.01	0.02	0.012	U	SW846-6010B
	Barium	0.062	2	0.005	0.0025		SW846-6010B
	Beryllium	0.0003	0.004	0.002	0.0003	U	SW846-6010B
	Cadmium	0.0005	0.005	0.002	0.0005	U	SW846-6010B
	Calcium	64.5	NE	0.5	0.05	J	SW846-6010B
	Chromium	0.0012	0.1	0.008	0.0012	U	SW846-6010B
	Cobalt	0.003	NE	0.005	0.003	U	SW846-6010B
	Copper	0.0021	1.3	0.01	0.0021	U	SW846-6010B
	Iron	0.02	NE	0.1	0.02	U	SW846-6010B
	Lead	0.0025	0.015	0.005	0.0025	U	SW846-6010B
	Magnesium	18.6	NE	0.5	0.04		SW846-6010B
	Manganese	0.0025	NE	0.005	0.0025	U	SW846-6010B
	Mercury	0.0001	0.002	0.0002	0.0001	U	SW-846:7471A
	Nickel	0.0024	NE	0.005	0.0024	U	SW846-6010B
	Potassium	4.5	NE	1	0.093	J	SW846-6010B
	Selenium	0.013	0.05	0.02	0.013	U	SW846-6010B
	Silver	0.00084	NE	0.005	0.00084	U	SW846-6010B
	Sodium	63.1	NE	1	0.25	J	SW846-6010B
Thallium	0.009	0.002	0.02	0.009	U	SW846-6010B	
Uranium	0.0046	0.03	0.001	0.0002		SW846-6020	
Vanadium	0.0044	NE	0.005	0.0019	B	SW846-6010B	
Zinc	0.003	NE	0.01	0.003	U	SW846-6010B	

B = Estimated result. Result is less than RL and greater than or equal to the IDL.

J = Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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U = Not detected at the reporting limit or MDL.

Table-3 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Nitrate-Nitrite as Nitrogen and Perchlorate

Monitoring Well/ Sample Date	Analyte	Result	EPA MCL	Quantitation Limit	MDL	Result	Laboratory Qualifier	Analytical Method
AVN-1 16-Nov-11	Nitrate-Nitrite as N	8.3	10	2	0.27	mg/L		EPA:300.0
LWDS-MW1 21-Nov-11	Nitrate-Nitrite	5.2	10	0.5	0.053	mg/L		EPA:353.2
LWDS-MW2 15-Nov-11	Nitrate-Nitrite as N	7	10	2	0.27	mg/L		EPA:300.0
LWDS-MW2 15-Nov-11 DUP	Nitrate-Nitrite as N	7	10	2	0.27	mg/L		EPA:300.0
TAV-MW6 17-Nov-11	Nitrate-Nitrite as N	7.8	10	2	0.27	mg/L		EPA:300.0
TAV-MW10 29-Nov-11	Nitrate-Nitrite	7.8	10	0.5	0.053	mg/L		EPA:353.2
TAV-MW11 10-Nov-11	Nitrate-Nitrite as N	6.4	10	2	0.27	mg/L		EPA:300.0
	Perchlorate	0.47	NE	2	0.47	ug/L	U	EPA:314.0
TAV-MW12 28-Nov-11	Nitrate-Nitrite	11.6	10	0.05	0.0053	mg/L		EPA:353.2
	Perchlorate - LC/MS/MS	0.34	NE	4	0.34	ug/L	U	EPA:314.0
TAV-MW13 7-Nov-11	Nitrate-Nitrite as N	5.6	10	2	0.27	mg/L		EPA:300.0
	Perchlorate	0.47	NE	2	0.47	ug/L	U	EPA:314.0
TAV-MW14 22-Nov-11	Nitrate-Nitrite	11.3	10	0.5	0.053	mg/L		EPA:353.2
	Perchlorate - LC/MS/MS	0.34	NE	4	0.34	ug/L	U	EPA:314.0

NE = Not Established

U = Not detected at the reporting limit or MDL.

Table-4 NMED DOE OB FFY 2012 Q-1 Technical Area-V Groundwater Quality Results: Detected Volatile Organic Compounds

Monitoring Well/ Sample Date	Analyte	Result (µg/L)	EPA MCL (µg/L)	Quantitation Limit (µg/L)	MDL (µg/L)	Laboratory Qualifier	Analytical Method
LWDS-MW1 21-Nov-11	Chloroform	0.19	NE	1	0.12	J	SW-846:8260B
	Dichloroethene[cis-1,2-]	3.7	70	1	0.1		SW-846:8260B
	Trichloroethene	16	5	1	0.13		SW-846:8260B
TAV-MW6 17-Nov-11	Dichloroethene[cis-1,2-]	2.4	70	1	0.21		SW-846:8260B
	Trichloroethylene	16	5	1	0.24		SW-846:8260B
TAV-MW10 29-Nov-11	Chloroform	0.14	NE	1	0.12	J	SW-846:8260B
	Dichloroethene[cis-1,2-]	3.1	70	1	0.1		SW-846:8260B
	Trichloroethene	15	5	1	0.13		SW-846:8260B
TAV-MW11 10-Nov-11	Trichloroethylene	1.7	5	1	0.24		SW-846:8260B
TAV-MW12 28-Nov-11	Dichloroethene[cis-1,2-]	0.26	70	1	0.1	J	SW-846:8260B
	Trichloroethene	5.7	5	1	0.13		SW-846:8260B
TAV-MW14 22-Nov-11	Dichloroethene[cis-1,2-]	0.89	70	1	0.1	J	SW-846:8260B
	Trichloroethene	6.7	5	1	0.13		SW-846:8260B

J = Estimated result. Result is less than RL.

NE = Not Established