ESHID-602331

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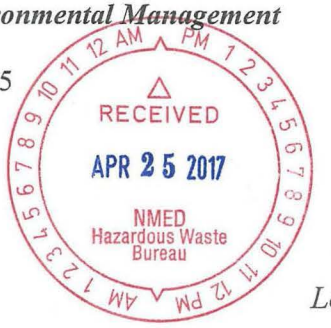

Environmental Management
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Date: APR 25 2017
Refer To: ADEM-17-0076
LAUR: 17-23174
Locates Action No.: n/a

John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Monthly Notification of Groundwater Data Reviewed in April 2017

This letter is Los Alamos National Laboratory's (LANL's) written submission in accordance with Section XXVI of the 2016 Compliance Order on Consent (Consent Order). Members of LANL's Associate Directorate for Environmental Management met on April 13, 2017, to review groundwater data received in March 2017. This report was prepared by comparing the data against groundwater notification criteria as defined in Section IX of the 2016 Consent Order. These criteria consider New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), New Mexico Environment Department (NMED) screening levels for tap water, EPA regional screening levels for tap water, and NMED-approved background values for hydrogeological zones as set forth in the "Groundwater Background Investigation Report, Revision 5." For comparison with EPA tap water standards, the standard's carcinogenic risk value was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the May 2016 EPA regional screening levels for tap water.

1-Day Notification

There were no instances of a contaminant detected at a concentration that exceeded the NMWQCC groundwater standard or federal maximum contaminant level at locations where contaminants have not been previously detected above the respective standard (based on samples collected since June 14, 2007).

One-day notification was not required because there were no cases of a contaminant detected in a well screen interval or spring at a concentration that exceeded a water quality standard for the first time.

15-Day Notification

The required information for the contaminants and other chemical parameters that meet the five reporting criteria requiring written notification within 15 days is given in the accompanying report and tables.

If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
Environmental Remediation Program
Los Alamos National Laboratory

Sincerely,

David S. Rhodes, Director
Office of Quality and Regulatory Compliance
Los Alamos Environmental Management
Field Office

BR/DR/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in April 2017 That Meet Notification Requirements (EP2017-0066)

Cy: (Letter and CD and/or DVD)
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SUMMARY OF GROUNDWATER DATA REVIEWED IN APRIL 2017
THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by Los Alamos National Laboratory (the Laboratory) under its annual "Interim Facility-Wide Groundwater Monitoring Plan" for the 2017 Monitoring Year and contains results for contaminants and other chemical constituents that meet the five screening criteria described in Section XXVI of the 2016 Compliance Order on Consent modified February 2017 (2016 Consent Order). The report covers groundwater samples collected from wells or springs (listed in the accompanying tables) that provide surveillance of the hydrogeological zones indicated in the tables.

The report includes two tables. Table 1, NMED 03-17 Groundwater Report, presents results since June 14, 2007, that met the five reporting criteria as specified in the 2016 Consent Order. Table 2, NMED 03-17 Groundwater Report Addendum, presents results that are exceeding the 95th percentile of those results in the data set defined in the "Groundwater Background Investigation Report, Revision 5." Only contaminants and other chemical constituents lacking a calculated groundwater background value (i.e., the frequency of detections was too low to calculate a background value at the 95% upper tolerance level) are listed in this table. Table 2 is a voluntary submission by Los Alamos National Laboratory to NMED to identify the potential risk resulting from contaminants and other chemical constituents without defined background values.

These tables include the following:

- Comments on results that appear to be exceptional based on consideration of monitoring data acquired from previous analyses (using statistics described below)
- Supplemental information summarizing monitoring results obtained from previous analyses
- Sampling date, name of the well or spring, location of the well or spring, depth of the screened interval, groundwater zone sampled, analytical result, detection limit, values for regulatory standards or screening levels, and analytical and secondary validation qualifiers. Additional information describing the locations and analytical data is also included. All data have been through secondary validation.

This report was prepared by comparing the data against groundwater notification criteria as defined in Section IX of the 2016 Consent Order. These criteria consider New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), NMED screening levels for tap water, EPA regional screening levels for tap water, and NMED-approved background values for hydrogeological zones as set forth in the "Groundwater Background Investigation Report, Revision 5." For comparison with EPA tap water standards, the standard's carcinogenic risk value was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the May 2016 EPA regional screening levels for tap water.

Background values applied in Table 1 notification criteria C2 and C4 are the background values for hydrogeological zones as set forth in the NMED-approved "Groundwater Background Investigation Report, Revision 5."

Screening values applied in Table 2 criteria XC2scr and XC4scr are the 95th percentile of the data set used to establish background as defined in the “Groundwater Background Investigation Report, Revision 5.”

DESCRIPTION OF TABLE

15-Day Notification Requirement

Table 1 is divided into separate categories that correspond to the five screening criteria in Section XXVI of the 2016 Consent Order. Some data met more than one of the notification criteria and appear in the table multiple times.

The criteria are as follows:

C1. Detection of a contaminant that is an organic compound in a spring or screened interval of a well if that contaminant has not previously been detected in the spring or screened interval.

C2. Detection of a contaminant that is a metal or other inorganic compound at a concentration above the background level in a spring or screened interval of a well if that contaminant has not previously exceeded the background level in the spring or screened interval.

C3. Detection of a contaminant in a spring or screened interval of a well at a concentration that (1) exceeds the lower of either one-half the New Mexico water quality standard or one-half the federal maximum contaminant level, or, if there is no such standard for the contaminant, (2) exceeds one-half the tap water screening levels in Table A-1 of NMED' s “Risk Assessment Guidance for Site Investigations and Remediation” (2015 or updates, as appropriate), or, if there is no NMED tap water screening level available for a contaminant, (3) exceeds one-half the EPA regional human health medium-specific screening level for tap water, if that contaminant has not previously exceeded one-half such standard or screening level in the spring or screened interval.

C4. Detection of a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration that exceeds two times the background level for the third consecutive sampling of the spring or screened interval.

C5. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal maximum contaminant level, and which has increased for the third consecutive sampling of that spring or screened interval.

Table 2 is divided into two categories that correspond to two screening criteria. They mirror criteria C2 and C4 in Table 1, respectively.

The two criteria are as follows:

XC2scr. Detection of a contaminant that is a metal or other inorganic compound at a concentration above the 95th percentile in a spring or screened interval of a well if that contaminant has not previously exceeded the 95th percentile of the data set used to establish background in the spring or screened interval as defined in the “Groundwater Background Investigation Report, Revision 5.”

XC4scr. Detection of a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration that for the third consecutive sampling exceeds 2 times the 95th percentile of the data set used to establish background as defined in the “Groundwater Background Investigation Report, Revision 5.”

Columns two through eight in both tables provide summary statistics for metals or inorganic compounds by field preparation code (e.g., filtered aluminum) for samples collected since January 1, 2000, including the currently reported data The statistics include the date of the first sampling event; the number of sampling events and samples analyzed; the number of detections; and the minimum, maximum, and median concentration for detections. This information indicates whether the new result is consistent with the range of earlier data.

The subsequent columns contain location and sampling information:

Hdr 1—canyon where monitoring location is found

Zone—hydrogeological zone from which the groundwater sample was collected (e.g., alluvial spring)

Location—monitoring location name

Screen Depth—depth of top of well screen in feet (0 for springs, –1 if unknown)

Start Date—sample date

Fld QC Type Code—identifies regular samples (REG) or field duplicates (FD)

Fld Prep Code—identifies whether samples are filtered or unfiltered

Lab Sample Type Code—indicates whether result is a primary sample (INIT) or reanalysis (RE)

Anyl Suite Code—analytical suite (such as volatile organic compounds) for analyzed compound

Analyte Desc—name of analyte

Analyte—chemical symbol for analyte or CAS (Chemical Abstracts Service) number for organic compounds

Std Result—analytical result in standard measurement units

Result/Median—ratio of the Std Result to the median of all detections since 2000

LVL Type/Risk Code—type of regulatory standard, screening level, or background value (indicating groundwater zone) used for comparison

Screen Level—value of the LVL Type/Risk Code

Exceedance Ratio—ratio of Std Result to LVL Type/Risk Code. In earlier versions of this report, the ratio was divided by the basis for comparison in the criterion, but that is no longer the case. For example, for a criterion (such as C3) that compares the value with one-half the standard, a value equal to a standard previously had an exceedance ratio of 2. The current report shows this ratio as 1.

Std Mdl—method detection limit in standard measurement units

Std Uom—standard units of measurement

Dilution Factor—amount by which the sample was diluted to measure the concentration

Lab Qual Code—analytical laboratory qualifiers indicating analytical quality of the sample

Validation Flag—secondary validation qualifier

Validation Reason Code—concatenated secondary validation codes explaining assignment of qualifiers

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—comment on the analytical result

Table 1: NMED 03-17 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C2	31	37	06/27/05	3.38	4.22	3.84	37	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S1	995.5	2/13/2017	REG	F	INIT	GENINORG	Magnesium	Mg	4.22	1.1	LANL Reg BG LVL	4.18	1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	40	45	06/09/05	16.7	32.2	20.3	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Calcium	Ca	32.2	1.6	LANL Int BG LVL	10.7	3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	40	45	06/09/05	4.89	13.7	6.79	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	12.9	1.9	LANL Int BG LVL	3.11	4.1	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	40	45	06/09/05	54.4	105	66.3	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	105	1.6	LANL Int BG LVL	37.8	2.8	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	40	45	06/09/05	3.17	10.3	4.8	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.3	2.1	LANL Int BG LVL	0.459	22.4	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	The result is the highest value.
C4	40	45	06/09/05	68.7	174	91.9	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	174	1.9	LANL Int BG LVL	0.27	644.4	12.5	ug/L	250		NQ	NQ	SW-846:6850	GELC	The result is the highest value.
C4	40	45	06/09/05	68.6	145	92.4	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	METALS	Strontium	Sr	145	1.6	LANL Int BG LVL	59.6	2.4	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	40	45	06/09/05	10.1	24.7	13.5	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	24.7	1.8	LANL Int BG LVL	7.1	3.5	0.266	mg/L	2		NQ	NQ	EPA:300.0	GELC	The result is the highest value.
C4	46	65	06/15/05	30.1	48.2	41	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	METALS	Barium	Ba	41.4	1	LANL Int BG LVL	13.5	3.1	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	46	65	06/15/05	42.8	75.5	63.9	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Calcium	Ca	66.6	1	LANL Int BG LVL	10.7	6.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	46	65	06/15/05	21.2	64.8	55.5	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	56	1	LANL Int BG LVL	3.11	18	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	

Table 1: NMED 03-17 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	46	65	06/15/05	142	253	213	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	220	1	LANL Int BG LVL	37.8	5.8	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	46	65	06/15/05	8.49	15.7	13	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Magnesium	Mg	13.1	1	LANL Int BG LVL	3.14	4.2	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	46	65	06/15/05	2.9	41.8	25.7	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	METALS	Nickel	Ni	21.9	0.9	LANL Int BG LVL	3.65	6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	46	65	06/15/05	7.62	20.4	9.73	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	9.19	0.9	LANL Int BG LVL	0.459	20	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	46	65	06/15/05	56.3	246	75.8	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	79.1	1	LANL Int BG LVL	0.27	293	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C4	46	65	06/15/05	196	339	286	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	METALS	Strontium	Sr	300	1	LANL Int BG LVL	59.6	5	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	46	65	06/15/05	34.7	77.6	59.7	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	57.2	1	LANL Int BG LVL	7.1	8.1	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	33	45	10/21/08	56.1	76.7	65.4	45	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	METALS	Barium	Ba	74.2	1.1	LANL Int BG LVL	13.5	5.5	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	33	45	10/21/08	59.5	73.6	67.5	45	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Calcium	Ca	70	1	LANL Int BG LVL	10.7	6.5	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	33	43	10/21/08	53.4	93	63.2	43	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	70.6	1.1	LANL Int BG LVL	3.11	22.7	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	33	45	10/21/08	204	255	232	45	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	244	1.1	LANL Int BG LVL	37.8	6.5	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	32	43	10/21/08	13.1	17.3	15.6	43	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Magnesium	Mg	16.7	1.1	LANL Int BG LVL	3.14	5.3	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	33	45	10/21/08	14.5	19.6	16.9	45	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	METALS	Nickel	Ni	15.4	0.9	LANL Int BG LVL	3.65	4.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	33	43	10/21/08	2.89	5.1	4.29	43	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.1	1	LANL Int BG LVL	0.459	8.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	

Table 1: NMED 03-17 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	33	43	10/21/08	0.899	1.12	0.975	43	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.94	1	LANL Int BG LVL	0.27	3.5	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C4	33	45	10/21/08	264	353	325	45	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	METALS	Strontium	Sr	331	1	LANL Int BG LVL	59.6	5.6	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	33	43	10/21/08	77.9	103	88.7	43	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	90.1	1	LANL Int BG LVL	7.1	12.7	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	47	56	05/17/05	2.27	7.43	5.195	56	Sandia Canyon	Regional	R-11	855	2/9/2017	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.22	1.2	LANL Reg BG LVL	0.769	8.1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	47	56	05/17/05	2.27	7.43	5.195	56	Sandia Canyon	Regional	R-11	855	2/9/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.81	1.1	LANL Reg BG LVL	0.769	7.6	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	47	56	05/17/05	5.95	15.4	9.265	56	Sandia Canyon	Regional	R-11	855	2/9/2017	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	10.3	1.1	LANL Reg BG LVL	4.59	2.2	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	47	56	05/17/05	5.95	15.4	9.265	56	Sandia Canyon	Regional	R-11	855	2/9/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	10.4	1.1	LANL Reg BG LVL	4.59	2.3	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	44	51	02/24/00	1.35	3.31	2.2	51	Mortandad Canyon	Regional	R-15	958.6	2/8/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.93	0.9	LANL Reg BG LVL	0.769	2.5	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	44	51	02/24/00	1.35	3.31	2.2	51	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	2/8/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.93	0.9	LANL Reg BG LVL	0.769	2.5	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	40	46	05/25/05	5.34	10.8	7.065	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	2/8/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	9.62	1.4	LANL Reg BG LVL	0.414	23.2	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C4	44	48	05/20/05	34.5	48.4	43.8	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Calcium	Ca	47.1	1.1	LANL Reg BG LVL	17.03	2.8	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	44	48	05/20/05	34.5	48.4	43.8	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Calcium	Ca	46.9	1.1	LANL Reg BG LVL	17.03	2.8	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	44	48	05/20/05	21.1	39.3	30.5	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Chloride	Cl(-1)	39.3	1.3	LANL Reg BG LVL	2.7	14.6	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	44	48	05/20/05	21.1	39.3	30.5	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	38.9	1.3	LANL Reg BG LVL	2.7	14.4	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	45	50	05/20/05	310	550	404	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	METALS	Chromium	Cr	550	1.4	LANL Reg BG LVL	7.48	73.5	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	The result is the highest value.

Table 1: NMED 03-17 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	45	50	05/20/05	310	550	404	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	METALS	Chromium	Cr	545	1.3	LANL Reg BG LVL	7.48	72.9	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	42	46	09/01/05	125	172	156.5	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Hardness	HARDNESS	165	1.1	LANL Reg BG LVL	67.1	2.5	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	42	46	09/01/05	125	172	156.5	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	165	1.1	LANL Reg BG LVL	67.1	2.5	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	44	48	05/20/05	8.68	12.5	11.1	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Magnesium	Mg	11.6	1	LANL Reg BG LVL	4.18	2.8	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	44	48	05/20/05	8.68	12.5	11.1	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Magnesium	Mg	11.5	1	LANL Reg BG LVL	4.18	2.8	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	44	48	05/20/05	6.1	34	14.6	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	METALS	Nickel	Ni	14.1	1	LANL Reg BG LVL	2.9	4.9	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	44	48	05/20/05	6.1	34	14.6	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	METALS	Nickel	Ni	14.7	1	LANL Reg BG LVL	2.9	5.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	42	45	05/20/05	3.1	5.39	4.02	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.4	1.1	LANL Reg BG LVL	0.769	5.7	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	42	45	05/20/05	3.1	5.39	4.02	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.45	1.1	LANL Reg BG LVL	0.769	5.8	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	42	45	09/01/05	0.802	1.13	0.978	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Perchlorate	ClO4	1.07	1.1	LANL Reg BG LVL	0.414	2.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C4	42	45	09/01/05	0.802	1.13	0.978	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.06	1.1	LANL Reg BG LVL	0.414	2.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	

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C4	44	48	05/20/05	38.1	59.1	46.3	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	59.1	1.3	LANL Reg BG LVL	4.59	12.9	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	The result is the highest value.
C4	44	48	05/20/05	38.1	59.1	46.3	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	59	1.3	LANL Reg BG LVL	4.59	12.9	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	35	36	08/30/07	68	389	345.5	36	Sandia Canyon	Regional	R-35a	1013.1	2/9/2017	REG	F	INIT	METALS	Barium	Ba	338	1	LANL Reg BG LVL	38.1	8.9	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	34	35	08/30/07	5.97	6.92	6.37	35	Sandia Canyon	Regional	R-35a	1013.1	2/9/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.32	1	LANL Reg BG LVL	2.7	2.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	35	36	08/30/07	1.2	22.2	8.09	35	Sandia Canyon	Regional	R-35a	1013.1	2/9/2017	REG	F	INIT	METALS	Nickel	Ni	6.49	0.8	LANL Reg BG LVL	2.9	2.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	32	36	03/12/08	4.05	6.46	5.875	36	Sandia Canyon	Regional	R-36	766.9	2/14/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.05	1	LANL Reg BG LVL	2.7	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	32	37	03/12/08	1.25	6.8	2.38	37	Sandia Canyon	Regional	R-36	766.9	2/14/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.64	1.1	LANL Reg BG LVL	0.769	3.4	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	31	35	03/12/08	0.845	1.74	1.55	35	Sandia Canyon	Regional	R-36	766.9	2/14/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.42	0.9	LANL Reg BG LVL	0.414	3.4	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C4	33	37	11/05/08	3.6	8.84	6.81	37	Sandia Canyon	Regional	R-43 S1	903.9	2/13/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.27	1.2	LANL Reg BG LVL	2.7	3.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	33	42	11/05/08	2.35	173	49.6	39	Sandia Canyon	Regional	R-43 S1	903.9	2/13/2017	REG	F	INIT	METALS	Chromium	Cr	173	3.5	LANL Reg BG LVL	7.48	23.1	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest so far, increasing trend
C4	33	38	11/05/08	0.651	9.97	1.81	37	Sandia Canyon	Regional	R-43 S1	903.9	2/13/2017	REG	F	INIT	METALS	Nickel	Ni	9.97	5.5	LANL Reg BG LVL	2.9	3.4	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	33	36	11/05/08	5.01	6.15	5.42	35	Sandia Canyon	Regional	R-43 S1	903.9	2/13/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.74	1.1	LANL Reg BG LVL	0.769	7.5	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	33	37	11/05/08	0.678	1.03	0.94	37	Sandia Canyon	Regional	R-43 S1	903.9	2/13/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.949	1	LANL Reg BG LVL	0.414	2.3	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C4	33	37	11/05/08	8.77	21	12.8	37	Sandia Canyon	Regional	R-43 S1	903.9	2/13/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	16.4	1.3	LANL Reg BG LVL	4.59	3.6	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	32	35	11/10/08	3.37	5.73	3.99	35	Sandia Canyon	Regional	R-43 S2	969.1	2/13/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	5.51	1.4	LANL Reg BG LVL	2.7	2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	32	34	11/10/08	0.389	5.4	1.45	34	Sandia Canyon	Regional	R-43 S2	969.1	2/13/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.65	2.5	LANL Reg BG LVL	0.769	4.7	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	32	35	11/10/08	0.411	0.879	0.517	35	Sandia Canyon	Regional	R-43 S2	969.1	2/13/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.858	1.7	LANL Reg BG LVL	0.414	2.1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	

Table 1: NMED 03-17 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	27	32	02/28/09	8.4	43.4	21.15	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	2/7/2017	REG	F	INIT	METALS	Chromium	Cr	43.4	2.1	LANL Reg BG LVL	7.48	5.8	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest so far, increasing trend
C4	27	28	02/28/09	0.256	3.47	2.63	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	2/7/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.93	1.1	LANL Reg BG LVL	0.769	3.8	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	27	32	03/05/09	6.1	20.1	10.9	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	2/7/2017	REG	F	INIT	METALS	Chromium	Cr	19	1.7	LANL Reg BG LVL	7.48	2.5	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C4	29	34	03/06/10	4.68	10.1	7.565	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	2/21/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.64	1.1	LANL Reg BG LVL	2.7	3.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	29	36	03/06/10	49.8	146	95.55	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	2/21/2017	REG	F	INIT	METALS	Chromium	Cr	133	1.4	LANL Reg BG LVL	7.48	17.8	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	Was 146 ug/L in 5/12/2016 sample, increasing trend
C4	29	35	03/06/10	0.398	2.72	1.53	35	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	2/21/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.05	1.3	LANL Reg BG LVL	0.769	2.7	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	29	34	03/06/10	7.22	14.9	11.45	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	2/21/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	12	1	LANL Reg BG LVL	4.59	2.6	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	19	25	03/26/12	1.64	11.7	8.52	25	Sandia Canyon	Regional	R-62	1158.4	2/21/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	11.2	1.3	LANL Reg BG LVL	2.7	4.1	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	19	25	03/26/12	104	240	136	25	Sandia Canyon	Regional	R-62	1158.4	2/21/2017	REG	F	INIT	METALS	Chromium	Cr	217	1.6	LANL Reg BG LVL	7.48	29	3	ug/L	1		J+	I6b	SW-846:6020	GELC	
C4	19	25	03/26/12	2.56	20.2	14.6	25	Sandia Canyon	Regional	R-62	1158.4	2/21/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	20.1	1.4	LANL Reg BG LVL	4.59	4.4	0.266	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	40	45	06/09/05	3.17	10.3	4.8	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.3	2.1	EPA MCL	10	1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	The result is the highest value.
C5	40	45	06/09/05	68.7	174	91.9	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	174	1.9	NMED A1 TAP SCRN LVL	13.8	12.6	12.5	ug/L	250		NQ	NQ	SW-846:6850	GELC	The result is the highest value.

Table 1: NMED 03-17 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	46	65	06/15/05	56.3	246	75.8	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	79.1	1	NMED A1 TAP SCRN LVL	13.8	5.7	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	33	42	11/05/08	2.35	173	49.6	39	Sandia Canyon	Regional	R-43 S1	903.9	2/13/2017	REG	F	INIT	METALS	Chromium	Cr	173	3.5	NM GW STD	50	3.5	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest so far, increasing trend
C5	27	32	02/28/09	8.4	43.4	21.15	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	2/7/2017	REG	F	INIT	METALS	Chromium	Cr	43.4	2.1	NM GW STD	50	0.9	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest so far, increasing trend
C5	19	25	03/26/12	104	240	136	25	Sandia Canyon	Regional	R-62	1158.4	2/21/2017	REG	F	INIT	METALS	Chromium	Cr	217	1.6	NM GW STD	50	4.3	3	ug/L	1		J+	I6b	SW-846:6020	GELC	

Table 2: NMED 03-17 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code
XC2scr	44	48	5/20/2005	0.881	0.881	0.881	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	METALS	Cadmium	Cd	0.881	1	Reg-Scr_95	0.11	8	0.3	ug/L	1	J	J	J_LAB	SW-846:6020	GELC
XC2scr	29	32	2/22/2009	0.775	0.775	0.775	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44 S2	985.3	2/17/2017	REG	F	INIT	METALS	Thallium	Tl	0.775	1	Reg-Scr_95	0.45	1.7	0.6	ug/L	1	J	J	J_LAB	SW-846:6020	GELC
XC2scr	29	34	3/6/2010	0.728	0.728	0.728	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	2/21/2017	REG	F	INIT	METALS	Thallium	Tl	0.728	1	Reg-Scr_95	0.45	1.6	0.6	ug/L	1	J	J	J_LAB	SW-846:6020	GELC
XC2scr	19	25	3/26/2012	2.14	2.14	2.14	1	Sandia Canyon	Regional	R-62	1158.4	2/21/2017	REG	F	INIT	METALS	Selenium	Se	2.14	1	Reg-Scr_95	1.5	1.4	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC
XC2scr	6	6	12/3/2015	0.0283	0.124	0.0386	3	Sandia Canyon	Regional	R-67	1242.6	2/16/2017	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.124	3.2	Reg-Scr_95	0.1	1.2	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC
XC2scr	6	6	12/3/2015	2	2	2	1	Sandia Canyon	Regional	R-67	1242.6	2/16/2017	REG	F	INIT	METALS	Selenium	Se	2	1	Reg-Scr_95	1.5	1.3	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC
XC2scr	6	6	12/3/2015	0.0269	0.196	0.03275	4	Sandia Canyon	Regional	R-67	1242.6	2/16/2017	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.196	6	Reg-Scr_95	0.0822	2.4	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC
XC4scr	40	45	6/9/2005	0.083	0.214	0.137	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.192	1.4	Int-Scr_95	0.0716	2.7	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC
XC4scr	40	50	6/9/2005	1.1	13	4.405	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	2/8/2017	REG	F	INIT	METALS	Chromium	Cr	7.4	1.7	Int-Scr_95	2.72	2.7	3	ug/L	1	J	J	J_LAB	SW-846:6020	GELC
XC4scr	46	65	6/15/2005	25.4	56	44.7	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	METALS	Boron	B	54.1	1.2	Int-Scr_95	16.2	3.3	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC
XC4scr	46	65	6/15/2005	0.212	0.703	0.575	62	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.533	0.9	Int-Scr_95	0.0716	7.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC
XC4scr	46	68	6/15/2005	29.4	86.6	55.35	68	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	METALS	Chromium	Cr	76.3	1.4	Int-Scr_95	2.72	28.1	3	ug/L	1		NQ	NQ	SW-846:6020	GELC
XC4scr	46	65	6/15/2005	298	497	409	65	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	2/8/2017	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	416	1	Int-Scr_95	135	3.1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC
XC4scr	33	43	10/21/2008	0.194	0.683	0.5745	42	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.65	1.1	Int-Scr_95	0.0716	9.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC
XC4scr	33	50	10/21/2008	354	658	462	50	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	METALS	Chromium	Cr	360	0.8	Int-Scr_95	2.72	132.4	30	ug/L	10		NQ	NQ	SW-846:6020	GELC
XC4scr	23	29	10/21/2008	0.00449	0.304	0.00697	29	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	UF	INIT	GENINORG	Cyanide (Total)	CN(TOTAL)	0.00508	0.7	Int-Scr_95	0.0017	3	0.0017	mg/L	1		NQ	NQ	EPA:335.4	GELC

Table 2: NMED 03-17 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code
XC4scr	33	44	10/21/2008	354	796	422.5	44	Sandia Canyon	Intermediate	SCI-2	548	2/14/2017	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	467	1.1	Int-Scr_95	135	3.5	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC
XC4scr	44	48	5/20/2005	0.113	0.33	0.232	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.3	1.3	Reg-Scr_95	0.067	4.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC
XC4scr	44	48	5/20/2005	0.113	0.33	0.232	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	2/7/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.3	1.3	Reg-Scr_95	0.067	4.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC