EMID-700153

DEPARTMENT OF ENERGY
Environmental Management Los Alamos Field Office (EM-LA)
Los Alamos, New Mexico 87544

DEC 14 2018

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

Dear Mr. Kieling:

Subject: Monthly Notification of Groundwater Data Reviewed in December 2018

This letter is the U.S. Department of Energy (DOE) Office of Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT – Los Alamos, LLC (N3B) written submission in accordance with Section XXVI.D of the 2016 Compliance Order on Consent (Consent Order). Members of EM-LA and N3B met on December 6, 2018, to review groundwater data received in November 2018 in accordance with Section XXVI.C of the 2016 Consent Order. 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 2018 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 MCL at locations where contaminants have not been previously detected above the respective standard as defined in the Consent Order (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 Veenis at (505) 309-1362 (steve.veenis@em-la.doe.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,

Arturo Q. Duran
Designated Agency Manager
Environmental Management
Los Alamos Field Office

Enclosures:
1. Summary of Groundwater Data Reviewed in December 2018 That Meet Notification Requirements (EM2018-0147)

cc (letter and enclosure[s] emailed):
L. King, EPA Region 6, Dallas, TX
R. Martinez, San Ildefonso Pueblo, NM
D. Chavarria, Santa Clara Pueblo, NM
W. Witten, Los Alamos County Utility Department, Los Alamos, NM
M. Hunter, NMED
S. Yanicak, NMED
J. Buckley, LANL
L. Dale, LANL
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Public Reading Room (EPRR)
PRS Database

EM-LA-40AD-00376

SUMMARY OF GROUNDWATER DATA REVIEWED IN DECEMBER 2018 THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by Newport News Nuclear BWXT – Los Alamos, LLC (N3B) under Los Alamos National Laboratory's (the Laboratory's) annual "Interim Facility-Wide Groundwater Monitoring Plan" for the 2019 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 11-18 Groundwater Report, presents results since June 14, 2007, that met the five reporting criteria as specified in the 2016 Consent Order. Table 2, NMED 11-18 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 N3B 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 2016 Consent Order. This report was prepared using the May 2018 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 TABLES

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 codes (the “C” stands for criterion) and their definitions 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 NMWQCC water quality standard or one-half the federal MCL, 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” (March 2017 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 NMWQCC water quality standard or one-half the federal MCL, 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:

Canyon—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 11-18 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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
C1	17	19	10/3/2006	0.646	0.646	0.646	1	Pajarito Canyon	Intermediate Perched	R-23i S2	470.2	10/23/2018	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	0.646	1	EPA MCL	6	0.1	0.313	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	15	16	2/7/2011	0.44	0.44	0.44	1	Mortandad Canyon	Regional Deep	R-56 S2	1046.6	10/25/2018	REG	UF	INIT	VOC	Trichloroethene	79-01-6	0.44	1	EPA MCL	5	0.1	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	12	12	10/24/2001	1.5	1.5	1.5	1	White Rock Canyon and Rio Grande	Regional Spring	Ancho Spring	0	10/3/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	1.5	1				0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C1	12	12	10/24/2001	0.83	0.83	0.83	1	White Rock Canyon and Rio Grande	Regional Spring	Ancho Spring	0	10/3/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.83	1	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	16	20	9/25/2000	1.4	1.4	1.4	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	10/2/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	1.4	1				0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C1	16	20	9/25/2000	0.3	0.71	0.505	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	10/2/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.71	1.4	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	15	20	10/6/2003	0.78	0.78	0.78	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	10/2/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.78	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C1	15	20	10/6/2003	0.279	0.35	0.291	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	10/2/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.35	1.2	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	11	11	10/6/2003	2.27	2.27	2.27	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	10/2/2018	REG	UF	INIT	VOC	Butanone[2-]	78-93-3	2.27	1	NMED A1 TAP SCRN LVL	5560	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	11	11	10/6/2003	2.16	2.16	2.16	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	10/2/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	2.16	1				0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C1	11	11	10/6/2003	0.357	0.67	0.5135	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	10/2/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.67	1.3	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	20	25	9/25/2000	0.91	0.91	0.91	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/2/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.91	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C1	20	25	9/25/2000	0.58	0.58	0.58	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/2/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.58	1	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	17	18	9/25/2001	1.57	1.57	1.57	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	10/3/2018	REG	UF	INIT	VOC	Butanone[2-]	78-93-3	1.57	1	NMED A1 TAP SCRN LVL	5560	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	

Table 1: NMED 11-18 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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
C1	17	18	9/25/2001	1.2	1.2	1.2	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	10/3/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	1.2	1				0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C1	17	18	9/25/2001	0.35	0.35	0.35	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	10/3/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.35	1	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	13	13	9/18/2006	2.63	2.63	2.63	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4AA	0	10/3/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	2.63	1				0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C1	13	13	9/18/2006	0.312	0.37	0.341	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 4AA	0	10/3/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.37	1.1	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	11	12	9/25/2001	0.363	0.363	0.363	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	10/4/2018	FD	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	0.363	1	EPA MCL	6	0.1	0.33	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	The compound was not detected in the regular sample.
C1	9	9	10/8/2003	0.72	0.72	0.72	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 9A	0	10/4/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.72	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	The SVOC method did not result in detection of the compound.
C2	17	19	9/24/2001	124	167	150	19	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	10/2/2018	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	164	1.1	LANL Reg BG LVL	161	1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C2	18	25	2/6/2009	0.301	0.667	0.362	25	Mortandad Canyon	Regional Top	R-38	821.2	10/16/2018	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.667	1.8	LANL Reg BG LVL	0.414	1.6	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C2	44	45	2/17/2009	3.25	4.78	3.51	45	Mortandad Canyon	Regional Top	R-44 S1	895	10/29/2018	REG	F	INIT	GENINORG	Magnesium	Mg	4.78	1.4	LANL Reg BG LVL	4.18	1.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	14	14	5/2/2010	0.407	0.788	0.703	14	Mortandad Canyon	Regional Top	R-52 S1	1035.2	10/17/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	0.788	1.1	LANL Reg BG LVL	0.769	1	0.017	mg/L	1		NQ	NQ	EPA:353.2	GELC	
C3	28	30	10/3/2006	0.403	5.15	0.82	29	Pajarito Canyon	Intermediate Perched	R-23i S2	470.2	10/23/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.15	6.3	EPA MCL	10	0.5	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C3	16	18	9/24/2001	1.54	5.67	3.96	11	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	10/2/2018	REG	F	INIT	METALS	Arsenic	As	5.67	1.4	EPA MCL	10	0.6	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	18	23	9/25/2000	1.6	5.91	2.98	11	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	10/2/2018	REG	F	INIT	METALS	Arsenic	As	5.91	2	EPA MCL	10	0.6	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	13	13	10/6/2003	2.4	6.31	3.175	8	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	10/2/2018	REG	F	INIT	METALS	Arsenic	As	6.31	2	EPA MCL	10	0.6	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	21	24	9/25/2000	1.8	5.77	2.93	12	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/2/2018	REG	F	INIT	METALS	Arsenic	As	5.77	2	EPA MCL	10	0.6	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	

Table 1: NMED 11-18 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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
C3	16	16	9/18/2006	1.8	5.66	2.81	8	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	10/3/2018	REG	F	INIT	METALS	Arsenic	As	5.66	2	EPA MCL	10	0.6	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	10	11	4/21/2009	93	129	108	11	Pajarito Canyon	Intermediate	R-40 S1	751.59	10/25/2018	REG	F	INIT	METALS	Strontium	Sr	124	1.1	LANL Int BG LVL	59.6	2.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	14	15	1/28/2009	64.5	93	84	15	Pajarito Canyon	Intermediate	R-40 Si	649.67	10/19/2018	REG	F	INIT	GENINORG	Hardness	HARDNESS	81.3	1	LANL Int BG LVL	37.8	2.2	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	14	15	1/28/2009	6.32	9.84	8.59	15	Pajarito Canyon	Intermediate	R-40 Si	649.67	10/19/2018	REG	F	INIT	GENINORG	Magnesium	Mg	8.51	1	LANL Int BG LVL	3.14	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	14	15	1/28/2009	9.7	22	14.8	15	Pajarito Canyon	Intermediate	R-40 Si	649.67	10/19/2018	REG	F	INIT	METALS	Molybdenum	Mo	12.8	0.9	LANL Int BG LVL	2.9	4.4	0.2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	37	49	6/23/2006	25.9	414	95.3	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	METALS	Barium	Ba	98.5	1	LANL Int BG LVL	13.5	7.3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	25.9	414	95.3	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	METALS	Barium	Ba	95.3	1	LANL Int BG LVL	13.5	7.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	2.62	62.3	13.7	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	GENINORG	Calcium	Ca	25.2	1.8	LANL Int BG LVL	10.7	2.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	2.62	62.3	13.7	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	GENINORG	Calcium	Ca	24.3	1.8	LANL Int BG LVL	10.7	2.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	13.8	610	91	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	GENINORG	Chloride	Cl(-1)	91	1	LANL Int BG LVL	3.11	29.3	1.34	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C4	37	49	6/23/2006	13.8	610	91	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	90.7	1	LANL Int BG LVL	3.11	29.2	1.34	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C4	37	49	6/23/2006	10.5	216	48.5	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	GENINORG	Hardness	HARDNESS	88.3	1.8	LANL Int BG LVL	37.8	2.3	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	37	49	6/23/2006	10.5	216	48.5	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	GENINORG	Hardness	HARDNESS	85.4	1.8	LANL Int BG LVL	37.8	2.3	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	37	49	6/23/2006	0.0239	3.96	0.303	41	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.38	4.6	LANL Int BG LVL	0.459	3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	37	49	6/23/2006	0.0239	3.96	0.303	41	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.38	4.6	LANL Int BG LVL	0.459	3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	37	49	6/23/2006	2.08	18.2	7.38	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	GENINORG	Potassium	K	5.89	0.8	LANL Int BG LVL	2.35	2.5	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	2.08	18.2	7.38	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	GENINORG	Potassium	K	5.74	0.8	LANL Int BG LVL	2.35	2.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	23.6	347	64.4	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	GENINORG	Sodium	Na	42.9	0.7	LANL Int BG LVL	18.2	2.4	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	23.6	347	64.4	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	GENINORG	Sodium	Na	41.5	0.6	LANL Int BG LVL	18.2	2.3	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	

Table 1: NMED 11-18 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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	37	49	6/23/2006	15.6	375	78.5	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	METALS	Strontium	Sr	142	1.8	LANL Int BG LVL	59.6	2.4	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	49	6/23/2006	15.6	375	78.5	49	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	METALS	Strontium	Sr	137	1.7	LANL Int BG LVL	59.6	2.3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	23	25	9/6/2007	8.2	77.6	54.2	25	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/23/2018	REG	F	INIT	METALS	Barium	Ba	56.3	1	LANL Int BG LVL	13.5	4.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	23	25	9/6/2007	21	39.9	28	25	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/23/2018	REG	F	INIT	GENINORG	Calcium	Ca	28.7	1	LANL Int BG LVL	10.7	2.7	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	23	25	9/6/2007	3.66	36.8	21.1	25	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/23/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	18.6	0.9	LANL Int BG LVL	3.11	6	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C4	23	25	9/6/2007	76.4	156	110	25	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/23/2018	REG	F	INIT	GENINORG	Hardness	HARDNESS	113	1	LANL Int BG LVL	37.8	3	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	23	25	9/6/2007	5.8	13.7	9.75	25	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/23/2018	REG	F	INIT	GENINORG	Magnesium	Mg	10.1	1	LANL Int BG LVL	3.14	3.2	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	23	25	9/6/2007	95.5	254	164	25	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/23/2018	REG	F	INIT	METALS	Strontium	Sr	154	0.9	LANL Int BG LVL	59.6	2.6	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	23	25	9/6/2007	4.82	27.5	13.3	25	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/23/2018	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	14.8	1.1	LANL Int BG LVL	7.1	2.1	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	28	31	10/3/2006	6.44	9.16	7.88	31	Pajarito Canyon	Intermediate Perched	R-23i S2	470.2	10/23/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.97	1.1	LANL Int BG LVL	3.11	2.9	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	25	29	10/11/2006	3.52	9.13	8.33	29	Pajarito Canyon	Intermediate Perched	R-23i S3	524	10/18/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.35	1	LANL Int BG LVL	3.11	2.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	25	29	10/11/2006	0.0341	1.08	0.895	29	Pajarito Canyon	Intermediate Perched	R-23i S3	524	10/18/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.06	1.2	LANL Int BG LVL	0.459	2.3	0.017	mg/L	1		NQ	NQ	EPA:353.2	GELC	
C4	19	23	7/13/2009	21.2	26.2	24.7	23	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/22/2018	FD	F	INIT	GENINORG	Calcium	Ca	24.4	1	LANL Int BG LVL	10.7	2.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	19	23	7/13/2009	21.2	26.2	24.7	23	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/22/2018	REG	F	INIT	GENINORG	Calcium	Ca	25.2	1	LANL Int BG LVL	10.7	2.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	19	23	7/13/2009	0.232	0.735	0.524	23	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/22/2018	FD	F	INIT	GENINORG	Fluoride	F(-1)	0.563	1.1	LANL Int BG LVL	0.234	2.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	19	23	7/13/2009	0.232	0.735	0.524	23	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/22/2018	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.578	1.1	LANL Int BG LVL	0.234	2.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	19	23	7/13/2009	73.1	89.4	84.8	23	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/22/2018	FD	F	INIT	GENINORG	Hardness	HARDNESS	83.6	1	LANL Int BG LVL	37.8	2.2	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	19	23	7/13/2009	73.1	89.4	84.8	23	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/22/2018	REG	F	INIT	GENINORG	Hardness	HARDNESS	86	1	LANL Int BG LVL	37.8	2.3	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	27	30	3/10/2004	113	253	183.5	30	Pajarito Canyon	Regional Deep	R-20 S2	1147.1	10/18/2018	REG	F	INIT	METALS	Barium	Ba	218	1.2	LANL Int BG LVL	38.1	5.7	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	

Table 1: NMED 11-18 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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	41	48	3/5/2009	6.1	47.4	17.2	47	Mortandad Canyon	Regional Deep	R-45 S2	974.9	10/30/2018	REG	F	INIT	METALS	Chromium	Cr	26	1.5	LANL Reg BG LVL	7.48	3.5	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	17	19	9/24/2001	4.35	6.18	5.01	19	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	10/2/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	5.95	1.2	LANL Reg BG LVL	2.7	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	19	21	9/25/2000	6.17	7.74	6.53	21	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/2/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	7.13	1.1	LANL Reg BG LVL	2.7	2.6	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	19	21	9/25/2000	9.24	10.6	9.58	21	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/2/2018	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	23	24	9/25/2000	4.37	6	5.135	24	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	10/3/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	5.77	1.1	LANL Reg BG LVL	2.7	2.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	17	18	9/27/2005	5.52	6.9	5.945	18	White Rock Canyon and Rio Grande	Regional Spring	Spring 4AA	0	10/3/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.9	1.2	LANL Reg BG LVL	2.7	2.6	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	15	15	9/26/2005	7.19	9.14	7.9	15	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	10/3/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	9.14	1.2	LANL Reg BG LVL	2.7	3.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	15	15	9/26/2005	8.65	10.7	9.18	15	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	10/3/2018	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	54	64	5/17/2005	2.27	7.43	5.25	64	Sandia Canyon	Regional Top	R-11	855	10/29/2018	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.4	1	LANL Reg BG LVL	0.769	7	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C4	54	64	5/17/2005	2.27	7.43	5.25	64	Sandia Canyon	Regional Top	R-11	855	10/29/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.4	1	LANL Reg BG LVL	0.769	7	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C4	54	64	5/17/2005	5.95	15.4	9.975	64	Sandia Canyon	Regional Top	R-11	855	10/29/2018	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	10.2	1	LANL Reg BG LVL	4.59	2.2	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	54	64	5/17/2005	5.95	15.4	9.975	64	Sandia Canyon	Regional Top	R-11	855	10/29/2018	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	10.3	1	LANL Reg BG LVL	4.59	2.2	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	25	25	3/11/2004	23.3	125	79.7	25	Pajarito Canyon	Regional Top	R-20 S1	904.6	10/24/2018	REG	F	INIT	METALS	Barium	Ba	115	1.4	LANL Reg BG LVL	38.1	3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	42	43	8/30/2007	68	389	346	43	Sandia Canyon	Regional Top	R-35a	1013.1	10/31/2018	REG	F	INIT	METALS	Barium	Ba	350	1	LANL Reg BG LVL	38.1	9.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	41	42	8/30/2007	5.97	7.31	6.42	42	Sandia Canyon	Regional Top	R-35a	1013.1	10/31/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.38	1	LANL Reg BG LVL	2.7	2.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	42	48	2/28/2009	8.4	50.7	35.25	48	Mortandad Canyon	Regional Top	R-45 S1	880	10/30/2018	REG	F	INIT	METALS	Chromium	Cr	35.5	1	LANL Reg BG LVL	7.48	4.7	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	42	44	2/28/2009	0.256	3.47	2.88	44	Mortandad Canyon	Regional Top	R-45 S1	880	10/30/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.21	1.1	LANL Reg BG LVL	0.769	4.2	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	

Table 1: NMED 11-18 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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	44	50	3/6/2010	4.68	13.1	8.445	50	Mortandad Canyon	Regional Top	R-50 S1	1077	11/1/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	13.1	1.6	LANL Reg BG LVL	2.7	4.9	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	44	52	3/6/2010	49.8	150	104.5	52	Mortandad Canyon	Regional Top	R-50 S1	1077	11/1/2018	REG	F	INIT	METALS	Chromium	Cr	96.5	0.9	LANL Reg BG LVL	7.48	12.9	6	µg/L	2		NQ	NQ	SW-846:6020	GELC	
C4	44	51	3/6/2010	0.398	2.72	1.84	51	Mortandad Canyon	Regional Top	R-50 S1	1077	11/1/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.58	1.4	LANL Reg BG LVL	0.769	3.4	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	44	50	3/6/2010	7.22	15.9	12.15	50	Mortandad Canyon	Regional Top	R-50 S1	1077	11/1/2018	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	15.9	1.3	LANL Reg BG LVL	4.59	3.5	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	28	33	5/20/2011	2.03	23.3	19.1	32	Mortandad Canyon	Regional Top	R-61 S1	1125	10/30/2018	REG	F	INIT	METALS	Chromium	Cr	17.6	0.9	LANL Reg BG LVL	7.48	2.4	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	28	33	5/20/2011	0.427	2.39	1.93	33	Mortandad Canyon	Regional Top	R-61 S1	1125	10/30/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.38	1.2	LANL Reg BG LVL	0.769	3.1	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	27	32	5/20/2011	2.96	16.2	8.81	32	Mortandad Canyon	Regional Top	R-61 S1	1125	10/30/2018	REG	F	INIT	GENINORG	Perchlorate	ClO4	14.3	1.6	LANL Reg BG LVL	0.414	34.5	0.5	µg/L	10		NQ	NQ	SW-846:6850	GELC	

Table 2: NMED 11-18 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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
XC2scr	28	31	10/3/2006	1.6	2.9	2.51	11	Pajarito Canyon	Intermediate Perched	R-23i S2	470.2	10/23/2018	REG	F	INIT	METALS	Arsenic	As	2.9	1.2	Int-Scr_95	2.82	1	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	19	23	7/13/2009	33	55.9	37.9	3	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/22/2018	FD	F	INIT	METALS	Iron	Fe	55.9	1.5	Int-Scr_95	54.1	1	30	µg/L	1	J	J	J_LAB	SW-846:6010C	GELC	
XC2scr	14	18	4/14/2010	53.1	53.1	53.1	1	Mortandad Canyon	Regional Deep	R-53 S2	959.7	10/26/2018	REG	F	INIT	METALS	Copper	Cu	53.1	1	Reg-Scr_95	3	18	3	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC2scr	13	15	9/26/2005	0.066	0.089	0.0687	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	10/2/2018	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.0687	1	Reg-Scr_95	0.067	1	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC2scr	15	16	9/26/2001	1.7	3.63	2.76	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	10/4/2018	FD	F	INIT	METALS	Arsenic	As	3.63	1.3	Reg-Scr_95	2.7	1.3	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	15	16	9/26/2001	1.7	3.63	2.76	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	10/4/2018	REG	F	INIT	METALS	Arsenic	As	2.76	1	Reg-Scr_95	2.7	1	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	16	16	9/27/2000	1.88	4.39	1.92	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 9A	0	10/4/2018	REG	F	INIT	METALS	Arsenic	As	4.39	2.3	Reg-Scr_95	2.7	1.6	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	42	50	8/29/2007	71.2	71.2	71.2	1	Sandia Canyon	Regional Top	R-35b	825.4	11/1/2018	REG	F	INIT	METALS	Aluminum	Al	71.2	1	Reg-Scr_95	68	1	68	µg/L	1	J	J	J_LAB	SW-846:6010C	GELC	
XC2scr	18	23	1/15/2009	0.071	0.071	0.071	1	Pajarito Canyon	Regional Top	R-40 S2	849.27	10/25/2018	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.071	1	Reg-Scr_95	0.067	1.1	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC2scr	14	14	4/19/2010	15.8	15.8	15.8	1	Mortandad Canyon	Regional Top	R-53 S1	849.2	10/26/2018	REG	F	INIT	METALS	Copper	Cu	15.8	1	Reg-Scr_95	3	5.3	3	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC2scr	11	12	7/1/2010	1.7	2.77	2.13	3	Pajarito Canyon	Regional Top	R-57 S1	910	10/19/2018	REG	F	INIT	METALS	Arsenic	As	2.77	1.3	Reg-Scr_95	2.7	1	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC4scr	14	15	1/28/2009	0.103	0.277	0.1675	14	Pajarito Canyon	Intermediate	R-40 Si	649.67	10/19/2018	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.129	0.8	Int-Scr_95	0.0606	2.1	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
XC4scr	14	15	1/28/2009	154	1420	655	15	Pajarito Canyon	Intermediate	R-40 Si	649.67	10/19/2018	REG	F	INIT	METALS	Iron	Fe	377	0.6	Int-Scr_95	54.1	7	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	14	15	1/28/2009	106	398	263	15	Pajarito Canyon	Intermediate	R-40 Si	649.67	10/19/2018	REG	F	INIT	METALS	Manganese	Mn	190	0.7	Int-Scr_95	8.39	23	2	µg/L	1	E	NQ	NQ	SW-846:6010C	GELC	
XC4scr	37	49	6/23/2006	81.1	35600	2070	48	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	METALS	Aluminum	Al	1870	0.9	Int-Scr_95	68	28	68	µg/L	1		J+	l4a	SW-846:6010C	GELC	
XC4scr	37	49	6/23/2006	81.1	35600	2070	48	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	METALS	Aluminum	Al	1490	0.7	Int-Scr_95	68	22	68	µg/L	1		J+	l4a	SW-846:6010C	GELC	
XC4scr	37	49	6/23/2006	94.7	21300	1455	46	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	METALS	Iron	Fe	1020	0.7	Int-Scr_95	54.1	19	30	µg/L	1		J+	l4a	SW-846:6010C	GELC	
XC4scr	37	49	6/23/2006	94.7	21300	1455	46	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	METALS	Iron	Fe	805	0.6	Int-Scr_95	54.1	15	30	µg/L	1		J+	l4a	SW-846:6010C	GELC	
XC4scr	37	51	6/23/2006	107	1230	303	51	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	261	0.9	Int-Scr_95	135	1.9	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
XC4scr	37	51	6/23/2006	107	1230	303	51	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	10/31/2018	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	353	1.2	Int-Scr_95	135	2.6	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
XC4scr	27	30	3/10/2004	38.5	382	73	30	Pajarito Canyon	Regional Deep	R-20 S2	1147.1	10/18/2018	REG	F	INIT	METALS	Manganese	Mn	73.3	1	Reg-Scr_95	12.1	6.1	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	20	23	2/19/2009	3.5	88.2	18.9	14	Pajarito Canyon	Regional Top	R-39	859.03	10/24/2018	FD	F	INIT	METALS	Zinc	Zn	38.4	2	Reg-Scr_95	14.4	2.7	3.3	µg/L	1		J+	l4a	SW-846:6010C	GELC	

Table 2: NMED 11-18 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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
XC4scr	20	23	2/19/2009	3.5	88.2	18.9	14	Pajarito Canyon	Regional Top	R-39	859.03	10/24/2018	REG	F	INIT	METALS	Zinc	Zn	37.1	2	Reg-Scr_95	14.4	2.6	3.3	µg/L	1		J+	I4a	SW-846:6010C	GELC	
XC4scr	28	33	5/20/2011	0.0531	11.8	0.941	30	Mortandad Canyon	Regional Top	R-61 S1	1125	10/30/2018	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.552	0.6	Reg-Scr_95	0.0822	6.7	0.02	mg/L	1		J+	I4a	EPA:365.4	GELC	