

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

AUG 27 2019

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 August 2019

This letter is the U.S. Department of Energy (DOE) 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 August 15, 2019, to review groundwater data received in July 2019 in accordance with Section XXVI.C of the 2016 Consent Order. The enclosed 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.

The enclosed report was prepared using the May 2019 EPA regional screening levels for tap water; the NMWQCC groundwater standards, published December 21, 2018; and the June 2019 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation" for NMED tap water screening levels.

This report also includes analytical data from samples collected at locations within the Pueblo de San Ildefonso, which are subject to reporting at this time. These data have been reviewed by the Pueblo. This review is required under the Memorandum of Agreement dated May 28, 2014, between the DOE National Nuclear Security Administration Los Alamos Field Office and San Ildefonso Pueblo.

1-Day Notification

There was one instance of a contaminant detected at a concentration that exceeded the NMWQCC groundwater standard or federal MCL at locations where contaminants have not previously been detected above the respective standard as defined in the Consent Order (based on samples collected since June 14, 2007).

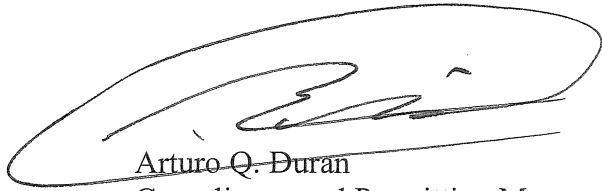
In an unfiltered sample collected on June 16, 2019, from intermediate perched well R-9i screen 2, phenol was measured at 6.7 µg/L, above the 5-µg/L NMWQCC groundwater standard.

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
Compliance and Permitting Manager
Environmental Management
Los Alamos Field Office

Enclosure:

1. Two hard copies with electronic files - Summary of Groundwater Data Reviewed in August 2019 That Meet Notification Requirements (EM2019-0334)

cc (letter with CD/DVD enclosure[s]):

H. Burgess, Los Alamos County, Los Alamos, NM (2 copies)

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
D. Gomez, Los Alamos County, Los Alamos, NM
M. Hunter, NMED
S. Pullen, NMED
A.C. Romero, NMED
M. Sandoval, NMED
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J. Buckley, LANL
L. Dale, LANL
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EM-LA-40AD-00485

SUMMARY OF GROUNDWATER DATA REVIEWED IN AUGUST 2019 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 the 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 at Los Alamos National Laboratory as indicated in the tables.

The report includes two tables. Table 1, NMED 07-19 Groundwater Report, presents results since June 14, 2007, that met the five reporting criteria as specified in the 2016 Consent Order. Table 2, NMED 07-19 Groundwater Report Addendum, presents results that exceed the 95th percentile of those results in the data set defined in the “Groundwater Background Investigation Report, Revision 5.” Only the contaminants and other chemical constituents that lack 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 that are 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 2019 EPA regional screening levels for tap water, the NMWQCC groundwater standards published December 21, 2018, and the NMED tap water screening levels specified in the June 2019 Table A-1 of “Risk Assessment Guidance for Site Investigations and Remediation.”

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

1-Day Notification Requirement

The CA value is used in the Criteria Code column of Table 1. The CA value represents the date that shows detection of a contaminant in a well screen interval or spring at a concentration that exceeds either the NMWQCC water quality standard or the EPA MCL if that contaminant has not previously exceeded such water quality standard or MCL in the well screen interval or spring. N3B, under the U.S. Department of Energy Office of Environmental Management, notifies NMED orally within 1 business day after review of such analytical data and also includes the data in the 15-day notification 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. In several cases, data met more than one of the notification criteria and therefore 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” (February 2019), 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 2 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 2 through 8 in both tables provide summary statistics for metals or organic/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 as follows:

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—date the sample was collected

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

Fld Prep Code—identifies whether samples are filtered (F) or unfiltered (UF)

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 Qualifier—analytical laboratory qualifiers indicating analytical quality of the sample data

Validation Qualifier—the qualifier that indicates the effects of all processes associated with the sample (i.e., sample collection, additional quality control samples such as field duplicates, etc.) on the quality of the sample data

Validation Reason Code—an explanation of the reason for validation of the qualifiers

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—N3B comment regarding the analytical result

The tables may include the following acronyms, abbreviations, and analytical laboratory codes and qualifiers.

Acronyms and Abbreviations

DNX—hexahydro-1,3-dinitro-5-nitro-1,3,5-triazine

EPA MCL—U.S. Environmental Protection Agency maximum contaminant level

GENINORG- General Inorganic

HMX-octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

HEXP-high explosive

LANL Int BG LV—Los Alamos National Laboratory intermediate background level

LANL Reg BG LV—Los Alamos National Laboratory regional background level

LCMS/MS—liquid chromatography mass spectrometry/mass spectrometry

MDL—method detection limit

MNX-hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine

NM GW STD—New Mexico Water Quality Control Commission groundwater standard

NMED A1 TAP SCRNLVL—New Mexico Environment Department screen level for tap water

NTU—nephelometric turbidity unit

PQL—practical quantitation limit

RDX—Royal Demolition Explosive (hexahydro-1,3,5-trinitro-1,3,5-triazine)

SVOC—semivolatile organic compound

TDS—total dissolved solids

TNX—2,4,6-trinitroxylenes

UOM—units of measurement

VOC—Volatile organic compound

Analytical Laboratory Codes and Qualifiers

* (lab qualifier) – (inorganic)- Duplicate analysis (relative percent difference) is not within control limits.

I4a (validation reason code)—The affected analyte is considered estimated and biased high because this analyte was identified in the method blank but was greater than 5 times the concentration of the affected analyte in the sample.

BJ (lab qualifier)—Analyte is present in the blank, and the associated numerical value is an estimated quantity.

F—filtered

FD—field duplicate

GELC—General Engineering Laboratories, Inc., Charleston, SC

GENINORG—general inorganic

H (lab qualifier)—The required extraction or analysis holding time for this result was exceeded.

HJ (lab qualifier)—The required extraction or analysis holding time for this result was exceeded. The associated numerical value is an estimated quantity.

INIT—primary sample

J (lab qualifier)—The associated numerical value is an estimated quantity.

J (validation qualifier)—The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.

J- (validation qualifier)—The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential negative bias.

J+ (validation qualifier)—The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.

J_LAB (validation reason code)—The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.

N (lab qualifier)—Spiked sample recovery is not within control limits.

NQ (validation qualifier)—No validation qualifier flag is associated with this result, and the analyte is classified as detected.

NQ (validation reason code)—The analytical laboratory did not qualify the analyte as not detected and/or with any other standard qualifier. The analyte is detected in the sample.

RE—reanalysis

REG—regular sample

UF—unfiltered

V9b (validation reason code)—The preserved sample was analyzed outside the 14-day holding time or the unpreserved sample was analyzed outside the 7-day holding time.

Table 1: NMED 7-19 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fid QC Type Code	Fid 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	9	10	4/2/2001	1.87	2.41	2.14	2	Upper Los Alamos Canyon	Alluvial	LAUZ-1	5.35	6/19/2019	FD	UF	INIT	VOC	Acetone	67-64-1	2.41	1.1	NMED A1 TAP SCRNLVL	14100	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	9	10	4/2/2001	1.87	2.41	2.14	2	Upper Los Alamos Canyon	Alluvial	LAUZ-1	5.35	6/19/2019	REG	UF	INIT	VOC	Acetone	67-64-1	1.87	0.9	NMED A1 TAP SCRNLVL	14100	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	7	8	9/14/2000	1.12	1.19	1.155	2	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	FD	UF	INIT	VOC	Toluene	108-88-3	1.19	1	NM GW STD	1000	0	0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	
C1	7	8	9/14/2000	1.12	1.19	1.155	2	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	REG	UF	INIT	VOC	Toluene	108-88-3	1.12	1	NM GW STD	1000	0	0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	
C1	4	4	9/15/2000	5.71	5.71	5.71	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	VOC	Acetone	67-64-1	5.71	1	NMED A1 TAP SCRNLVL	14100	0	1.5	µg/L	1	HJ	J	J_LAB	SW-846:8260B	GELC	
C1	3	3	9/15/2000	3.64	3.64	3.64	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Bis (2-ethylhexyl)phthalate	117-81-7	3.64	1	EPA MCL	6	0.6	0.309	µg/L	1		NQ	NQ	SW-846:8270D	GELC	
C1	4	4	9/15/2000	6.93	6.93	6.93	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	VOC	Butanone[2-]	78-93-3	6.93	1	NMED A1 TAP SCRNLVL	5560	0	1.5	µg/L	1	H	NQ	NQ	SW-846:8260B	GELC	
C1	3	3	9/15/2000	0.34	0.34	0.34	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Di-n-butylphthalate	84-74-2	0.34	1	NMED A1 TAP SCRNLVL	885	0	0.309	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	3	3	9/15/2000	5.64	5.64	5.64	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Methylphenol[2-]	95-48-7	5.64	1	EPA TAP SCRNLVL	930	0	3.09	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	1	1	6/16/2019	4.76	4.76	4.76	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Methylphenol[3-,4-]	65794-96-9	4.76	1				3.81	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	3	3	9/15/2000	6.70	6.7	6.7	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Phenol	108-95-2	6.70	1	NM GW STD	5	1.3	3.09	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	4	4	9/15/2000	371.00	371	371	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	DL	VOC	Toluene	108-88-3	371.00	1	NM GW STD	1000	0.5	3	µg/L	10	H	NQ	NQ	SW-846:8260B	GELC	
C1	2	2	8/24/2010	0.54	0.54	0.54	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	VOC	Xylene[1,3-] +Xylene[1,4-]	Xylene[m+p]	0.54	1	NMED A1 TAP SCRNLVL	193	0	0.3	µg/L	1	HJ	J	J_LAB	SW-846:8260B	GELC	
C1	3	4	2/13/2019	0.44	0.44	0.44	1	Water Canyon	Regional	R-69 S2	1376	6/6/2019	REG	UF	INIT	SVOC	Di-n-butylphthalate	84-74-2	0.44	1	NMED A1 TAP SCRNLVL	885	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	

Table 1: NMED 7-19 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	FId QC Type Code	FId 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	5	7	11/15/2001	1.40	2.96	2.18	2	Pueblo Canyon	Regional Deep	R-5 S4	859	7/2/2019	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	2.96	1.4	EPA MCL	6	0.5	0.313	µg/L	1		NQ	NQ	SW-846:8270D	GELC	
C1	6	8	11/15/2001	13.90	13.9	13.9	1	Pueblo Canyon	Regional Deep	R-5 S4	859	7/2/2019	REG	UF	INIT	VOC	Toluene	108-88-3	13.90	1	NM GW STD	1000	0	0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	
C1	8	8	2/23/2004	3.54	3.54	3.54	1	Upper Los Alamos Canyon	Regional Deep	R-8 S2	821	7/13/2019	REG	UF	INIT	VOC	Toluene	108-88-3	3.54	1	NM GW STD	1000	0	0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	
C2	11	12	8/29/2008	0.20	0.368	0.243	5	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189	6/26/2019	FD	F	INIT	GENINORG	Perchlorate	CIO4	0.37	1.5	LANL Int BG LVL	0.27	1.4	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C2	11	12	8/29/2008	0.20	0.368	0.243	5	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189	6/26/2019	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.37	1.5	LANL Int BG LVL	0.27	1.4	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C1	10	11	10/23/2001	0.31	0.31	0.31	1	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	UF	INIT	SVOC	Di-n-butylphthalate	84-74-2	0.31	1	NMED A1 TAP SCRNLVL	885	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	12	13	10/23/2001	0.4	0.4	0.4	1	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.4	1	NM GW STD	1000	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	2	2	10/3/2017	1.04	1.04	1.04	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/11/2018	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	1.04	1				0.3	µg/L	1		NQ	NQ	SW-846:8260B	GELC	
C1	2	2	10/3/2017	0.57	0.57	0.57	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/11/2018	REG	UF	INIT	VOC	Toluene	108-88-3	0.57	1	NM GW STD	1000	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	24	30	11/30/2005	0.459	2.85	2.555	4	Sandia Canyon	Regional Top	R-10a	690	11/14/2018	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	0.459	0.2	EPA MCL	6	0.1	0.306	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	21	25	6/7/2005	1.79	5.44	2.96	3	Mortandad Canyon	Regional Top	R-34	883.7	11/15/2018	REG	UF	INIT	VOC	Acetone	67-64-1	5.44	1.8	NMED A1 TAP SCRNLVL	14100	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	11	11	9/15/2000	9.94	29.1	10.8	11	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	F	INIT	GENINORG	Sodium	Na	29.10	2.7	LANL Int BG LVL	18.2	1.6	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	3	4	2/13/2019	54.00	107	54.7	4	Water Canyon	Regional	R-69 S2	1376	6/6/2019	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	107.00	2	LANL Reg BG LVL	72.9	1.5	1.45	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C2	10	10	11/14/2001	0.01	2.67	0.273	9	Pueblo Canyon	Regional Deep	R-5 S4	859	7/2/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.67	9.8	LANL Reg BG LVL	0.769	3.5	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C2	10	10	7/27/2006	0.25	1.46	0.286	10	Pueblo Canyon	Regional Deep	R-5 S4	859	7/2/2019	REG	F	INIT	GENINORG	Perchlorate	CIO4	1.46	5.1	LANL Reg BG LVL	0.414	3.5	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C2	20	21	4/26/2005	0.16	0.47	0.261	21	Pueblo Canyon	Regional Top	R-2	906	6/26/2019	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.47	1.8	LANL Reg BG LVL	0.377	1.2	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	

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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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C2	5	6	5/30/2001	0.33	0.513	0.396	5	Upper Los Alamos Canyon	Regional Top	R-7 S3	896	6/23/2019	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.51	1.3	LANL Reg BG LVL	0.377	1.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C3	15	15	8/8/2006	1.86	7.97	3.98	11	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	METALS	Arsenic	As	7.97	2	NM GW STD	10	0.8	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	3	3	9/15/2000	3.64	3.64	3.64	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	3.64	1	EPA MCL	6	0.6	0.309	µg/L	1		NQ	NQ	SW-846:8270D	GELC	
C3	3	3	9/15/2000	6.70	6.7	6.7	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Phenol	108-95-2	6.70	1	NM GW STD	5	1.3	3.09	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C3	11	11	11/14/2001	0.21	1.15	0.348	11	Pueblo Canyon	Regional Deep	R-5 S4	859	7/2/2019	REG	F	INIT	GENINORG	Fluoride	F(-1)	1.15	3.3	NM GW STD	1.6	0.7	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C3	36	42	5/20/2011	2.03	39.1	19.8	41	Mortandad Canyon	Regional Top	R-61 S1	1125	6/6/2019	REG	F	INIT	METALS	Chromium	Cr	39.10	2	NM GW STD	50	0.8	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	10	11	6/29/2006	0.104	0.104	0.104	1	Sandia Canyon	Regional Deep	R-10 S2	1042	11/14/2018	REG	UF	INIT	INORGANIC	Cyanide (Total)	CN(TOTAL)	0.104	1	EPA MCL	0.2	0.5	0.002	mg/L	1		NQ	NQ	EPA:335.4	GELC	FD was nondetect
C3	34	40	11/30/2005	1.6	5.19	2.325	22	Sandia Canyon	Regional Top	R-10a	690	11/14/2018	REG	F	INIT	METALS	Arsenic	As	5.19	2.2	EPA MCL	10	0.5	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	16	16	8/8/2006	141.00	296	170.5	16	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3 +HCO3	170.00	1	LANL Int BG LVL	62	2.7	1.45	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C4	15	15	8/8/2006	95.10	117	111	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	METALS	Barium	Ba	117.00	1.1	LANL Int BG LVL	13.5	8.7	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	15	15	8/8/2006	39.20	53	48.2	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Calcium	Ca	46.60	1	LANL Int BG LVL	10.7	4.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	16	8/8/2006	42.5	50.4	47.1	16	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	50	1.1	LANL Int BG LVL	3.11	16.1	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	15	15	8/8/2006	141	184	171	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Hardness	HARDNESS	167	1	LANL Int BG LVL	37.8	4.4	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	15	15	8/8/2006	10.40	13.2	12.2	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Magnesium	Mg	12.20	1	LANL Int BG LVL	3.14	3.9	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	15	15	8/8/2006	7.63	11.4	9.89	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	METALS	Nickel	Ni	7.63	0.8	LANL Int BG LVL	3.65	2.1	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	17	17	5/7/2005	3.16	7.65	4.15	17	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.09	1	LANL Int BG LVL	0.459	8.9	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	15	15	8/8/2006	8.30	9.23	8.78	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Potassium	K	9.13	1	LANL Int BG LVL	2.35	3.9	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	15	15	8/8/2006	42.60	53	45.6	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Sodium	Na	46.70	1	LANL Int BG LVL	18.2	2.6	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	

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C4	15	15	8/8/2006	216.00	269	243	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	METALS	Strontium	Sr	243.00	1	LANL Int BG LVL	59.6	4.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	16	8/8/2006	22.50	33	29.7	16	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	32.00	1.1	LANL Int BG LVL	7.1	4.5	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	15	15	8/8/2006	1.17	3.6	2.83	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Uranium	U	2.41	0.9	LANL Int BG LVL	0.992	2.4	0.067	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	17	20	8/10/2006	150.00	164	157	20	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3 +HCO3	160.00	1	LANL Int BG LVL	62	2.6	1.45	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C4	16	18	8/10/2006	94.50	107	98.25	18	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	METALS	Barium	Ba	96.90	1	LANL Int BG LVL	13.5	7.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	18	8/10/2006	54.80	60.1	57.9	18	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	GENINORG	Calcium	Ca	56.40	1	LANL Int BG LVL	10.7	5.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	17	20	8/10/2006	34.40	46.6	40.35	20	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	45.20	1.1	LANL Int BG LVL	3.11	14.5	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	16	18	8/10/2006	179.00	219	210.5	18	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	GENINORG	Hardness	HARDNESS	204.00	1	LANL Int BG LVL	37.8	5.4	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	16	18	8/10/2006	15.10	16.8	15.95	18	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	GENINORG	Magnesium	Mg	15.40	1	LANL Int BG LVL	3.14	4.9	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	17	20	8/10/2006	2.15	7.65	4.325	20	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.69	0.9	LANL Int BG LVL	0.459	8	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	17	20	8/10/2006	0.10	3.45	2.25	20	Pueblo Canyon	Intermediate Perched	R-3i	215	6/24/2019	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.55	0.7	LANL Int BG LVL	0.27	5.7	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C4	16	18	8/10/2006	5.23	6.17	5.865	18	Pueblo Canyon	Intermediate Perched	R-3i	215.2	6/24/2019	REG	F	INIT	GENINORG	Potassium	K	5.23	0.9	LANL Int BG LVL	2.35	2.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	18	8/10/2006	255	317	275	18	Pueblo Canyon	Intermediate Perched	R-3i	215.2	6/24/2019	REG	F	INIT	METALS	Strontium	Sr	259	0.9	LANL Int BG LVL	59.6	4.3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	17	20	8/10/2006	20.1	30	26.8	20	Pueblo Canyon	Intermediate Perched	R-3i	215.2	6/24/2019	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	28.6	1.1	LANL Int BG LVL	7.1	4	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	16	18	8/10/2006	7.19	10.2	8.925	18	Pueblo Canyon	Intermediate Perched	R-3i	215.2	6/24/2019	REG	F	INIT	GENINORG	Uranium	U	7.19	0.8	LANL Int BG LVL	0.992	7.2	0.067	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	13	14	9/14/2000	37.4	72.6	54.9	14	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	FD	F	INIT	METALS	Barium	Ba	38.8	0.7	LANL Int BG LVL	13.5	2.9	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	13	14	9/14/2000	37.4	72.6	54.9	14	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	REG	F	INIT	METALS	Barium	Ba	37.4	0.7	LANL Int BG LVL	13.5	2.8	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	15	17	9/14/2000	24	54.2	39.05	16	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	FD	F	INIT	GENINORG	Chloride	Cl(-1)	54.2	1.4	LANL Int BG LVL	3.11	17.4	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	

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C4	15	17	9/14/2000	24	54.2	39.05	16	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	53.4	1.4	LANL Int BG LVL	3.11	17.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	13	14	9/14/2000	5.6	8.84	7.095	14	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	FD	F	INIT	GENINORG	Magnesium	Mg	6.78	1	LANL Int BG LVL	3.14	2.2	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	13	14	9/14/2000	5.6	8.84	7.095	14	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	REG	F	INIT	GENINORG	Magnesium	Mg	6.63	0.9	LANL Int BG LVL	3.14	2.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	13	14	9/14/2000	7.45	21	11	14	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	FD	F	INIT	METALS	Molybdenum	Mo	8.61	0.8	LANL Int BG LVL	2.9	3	0.2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	13	14	9/14/2000	7.45	21	11	14	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	6/26/2019	REG	F	INIT	METALS	Molybdenum	Mo	8.29	0.8	LANL Int BG LVL	2.9	2.9	0.2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	13	16	9/15/2000	12.3	53.4	14.2	15	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	269.6	6/16/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	53.4	3.8	LANL Int BG LVL	3.11	17.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	14	19	4/29/2010	56.7	67.4	62.7	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	METALS	Barium	Ba	66.2	1.1	LANL Int BG LVL	13.5	4.9	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	14	19	4/29/2010	33.3	43.3	37.4	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	GENINORG	Calcium	Ca	37.6	1	LANL Int BG LVL	10.7	3.5	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	14	19	4/29/2010	40.2	50.8	44.7	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	42.5	1	LANL Int BG LVL	3.11	13.7	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	14	19	4/29/2010	108	137	122	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	GENINORG	Hardness	HARDNESS	121	1	LANL Int BG LVL	37.8	3.2	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	14	19	4/29/2010	2.49	3.46	2.95	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.46	1.2	LANL Int BG LVL	0.459	7.5	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	14	19	4/29/2010	175	231	205	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	METALS	Strontium	Sr	197	1	LANL Int BG LVL	59.6	3.3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	14	19	4/29/2010	22.1	26	25.5	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	24.8	1	LANL Int BG LVL	7.1	3.5	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	50	54	8/30/2007	68	389	346	54	Sandia Canyon	Regional Deep	R-35a	1013.1	6/10/2019	FD	F	INIT	METALS	Barium	Ba	343	1	LANL Reg BG LVL	38.1	9	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	50	54	8/30/2007	68	389	346	54	Sandia Canyon	Regional Deep	R-35a	1013.1	6/10/2019	REG	F	INIT	METALS	Barium	Ba	347	1	LANL Reg BG LVL	38.1	9.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	49	53	8/30/2007	5.97	7.31	6.42	53	Sandia Canyon	Regional Deep	R-35a	1013.1	6/10/2019	FD	F	INIT	GENINORG	Chloride	Cl(-1)	6.52	1	LANL Reg BG LVL	2.7	2.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	49	53	8/30/2007	5.97	7.31	6.42	53	Sandia Canyon	Regional Deep	R-35a	1013.1	6/10/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.64	1	LANL Reg BG LVL	2.7	2.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	

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C4	47	54	3/5/2009	6.1	47.4	18.3	53	Mortandad Canyon	Regional Deep	R-45 S2	974.9	6/13/2019	REG	F	INIT	METALS	Chromium	Cr	31.3	1.7	LANL Reg BG LVL	7.48	4.2	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	47	54	3/5/2009	6.1	47.4	18.3	53	Mortandad Canyon	Regional Deep	R-45 S2	974.9	4/26/2019	REG	F	INIT	METALS	Chromium	Cr	28.2	1.5	LANL Reg BG LVL	7.48	3.8	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	9	9	11/14/2001	100	545	176	9	Pueblo Canyon	Regional Deep	R-5 S4	858.7	7/2/2019	REG	F	INIT	METALS	Barium	Ba	215	1.2	LANL Reg BG LVL	38.1	5.6	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	62	73	5/17/2005	2.27	7.43	5.35	73	Sandia Canyon	Regional Top	R-11	855	6/14/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.71	1.1	LANL Reg BG LVL	0.769	7.4	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	62	73	5/17/2005	5.95	15.4	10.2	73	Sandia Canyon	Regional Top	R-11	855	6/14/2019	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	10.1	1	LANL Reg BG LVL	4.59	2.2	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	19	23	11/15/2005	6.96	8.31	7.53	23	Lower Los Alamos Canyon	Regional Top	R-24	825	6/14/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.31	1.1	LANL Reg BG LVL	2.7	3.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	20	29	4/27/2005	4.67	7.64	5.49	29	Pueblo Canyon	Regional Top	R-4	792.9	6/13/2019	FD	F	INIT	GENINORG	Chloride	Cl(-1)	7.57	1.4	LANL Reg BG LVL	2.7	2.8	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	20	29	4/27/2005	4.67	7.64	5.49	29	Pueblo Canyon	Regional Top	R-4	792.9	6/13/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	7.64	1.4	LANL Reg BG LVL	2.7	2.8	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	20	29	4/27/2005	1.06	2.32	1.76	29	Pueblo Canyon	Regional Top	R-4	792.9	6/13/2019	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.29	1.3	LANL Reg BG LVL	0.769	3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	20	29	4/27/2005	1.06	2.32	1.76	29	Pueblo Canyon	Regional Top	R-4	793	6/13/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.32	1.3	LANL Reg BG LVL	0.769	3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	16	24	7/25/2006	2.00	6.32	4.54	24	Pueblo Canyon	Regional Top	R-4	793	6/13/2019	FD	F	INIT	GENINORG	Perchlorate	ClO4	5.98	1.3	LANL Reg BG LVL	0.414	14.4	0.2	µg/L	4		NQ	NQ	SW-846:6850	GELC	
C4	16	24	7/25/2006	2.00	6.32	4.54	24	Pueblo Canyon	Regional Top	R-4	793	6/13/2019	REG	F	INIT	GENINORG	Perchlorate	ClO4	6.15	1.4	LANL Reg BG LVL	0.414	14.9	0.2	µg/L	4		NQ	NQ	SW-846:6850	GELC	
C4	52	54	2/17/2009	1.99	18.2	2.375	54	Mortandad Canyon	Regional Top	R-44 S1	895	6/18/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	17.60	7.4	LANL Reg BG LVL	2.7	6.5	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C4	52	54	2/17/2009	0.54	27.8	1.75	27	Mortandad Canyon	Regional Top	R-44 S1	895	6/18/2019	REG	F	INIT	METALS	Nickel	Ni	27.80	15.9	LANL Reg BG LVL	2.9	9.6	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	52	54	2/17/2009	0.12	2.57	1.15	53	Mortandad Canyon	Regional Top	R-44 S1	895	6/18/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.57	2.2	LANL Reg BG LVL	0.769	3.3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	52	54	2/17/2009	2.76	18.9	3.44	54	Mortandad Canyon	Regional Top	R-44 S1	895	6/18/2019	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	17.70	5.1	LANL Reg BG LVL	4.59	3.9	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	48	54	2/28/2009	8.40	50.7	35.6	54	Mortandad Canyon	Regional Top	R-45 S1	880	6/13/2019	FD	F	INIT	METALS	Chromium	Cr	31.00	0.9	LANL Reg BG LVL	7.48	4.1	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	48	54	2/28/2009	8.40	50.7	35.6	54	Mortandad Canyon	Regional Top	R-45 S1	880	6/13/2019	REG	F	INIT	METALS	Chromium	Cr	35.40	1	LANL Reg BG LVL	7.48	4.7	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	48	54	2/28/2009	8.40	50.7	35.6	54	Mortandad Canyon	Regional Top	R-45 S1	880	4/26/2019	REG	F	INIT	METALS	Chromium	Cr	30.70	0.9	LANL Reg BG LVL	7.48	4.1	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	

Table 1: NMED 7-19 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	48	50	2/28/2009	0.26	3.47	2.865	50	Mortandad Canyon	Regional Top	R-45 S1	880	6/13/2019	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.66	0.9	LANL Reg BG LVL	0.769	3.5	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	48	50	2/28/2009	0.26	3.47	2.865	50	Mortandad Canyon	Regional Top	R-45 S1	880	6/13/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.78	1	LANL Reg BG LVL	0.769	3.6	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	48	50	2/28/2009	0.26	3.47	2.865	50	Mortandad Canyon	Regional Top	R-45 S1	880	4/26/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.57	0.9	LANL Reg BG LVL	0.769	3.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	52	58	3/6/2010	4.68	18.3	8.69	58	Mortandad Canyon	Regional Top	R-50 S1	1077	6/17/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	17.90	2.1	LANL Reg BG LVL	2.7	6.6	0.335	mg/L	5		J-	I9b	EPA:300.0	GELC	
C4	52	60	3/6/2010	44.90	150	98.2	60	Mortandad Canyon	Regional Top	R-50 S1	1077	6/17/2019	REG	F	INIT	METALS	Chromium	Cr	44.90	0.5	LANL Reg BG LVL	7.48	6	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	Lowest to date
C4	52	59	3/6/2010	0.40	2.77	1.89	59	Mortandad Canyon	Regional Top	R-50 S1	1077	6/17/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.56	1.4	LANL Reg BG LVL	0.769	3.3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	52	58	3/6/2010	7.22	19.6	13.2	58	Mortandad Canyon	Regional Top	R-50 S1	1077	6/17/2019	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	19.10	1.4	LANL Reg BG LVL	4.59	4.2	0.665	mg/L	5		J-	I9b	EPA:300.0	GELC	
C4	36	42	5/20/2011	2.03	39.1	19.8	41	Mortandad Canyon	Regional Top	R-61 S1	1125	6/6/2019	REG	F	INIT	METALS	Chromium	Cr	39.10	2	LANL Reg BG LVL	7.48	5.2	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	36	42	5/20/2011	0.43	2.64	1.975	42	Mortandad Canyon	Regional Top	R-61 S1	1125	6/6/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.44	1.2	LANL Reg BG LVL	0.769	3.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	35	41	5/20/2011	2.96	16.2	10.9	41	Mortandad Canyon	Regional Top	R-61 S1	1125	6/6/2019	REG	F	INIT	GENINORG	Perchlorate	ClO4	11.80	1.1	LANL Reg BG LVL	0.414	28.5	0.5	µg/L	10		NQ	NQ	SW-846:6850	GELC	
C4	16	18	8/8/2011	39.8	54.1	43.65	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	METALS	Barium	Ba	41.8	1	LANL Int BG LVL	13.5	3.1	1	µg/L	1		J+	I4a	SW-846:6010C	GELC	
C4	16	18	8/8/2011	39.8	54.1	43.65	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	METALS	Barium	Ba	39.8	0.9	LANL Int BG LVL	13.5	2.9	1	µg/L	1		J+	I4a	SW-846:6010C	GELC	
C4	16	18	8/8/2011	27.6	31	28.65	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	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	16	18	8/8/2011	27.6	31	28.65	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Calcium	Ca	27.6	1	LANL Int BG LVL	10.7	2.6	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	18	8/8/2011	15.5	19.1	16.35	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Chloride	Cl(-1)	15.8	1	LANL Int BG LVL	3.11	5.1	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	16	18	8/8/2011	15.5	19.1	16.35	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	16	1	LANL Int BG LVL	3.11	5.1	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	16	18	8/8/2011	100	113	104	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Hardness	HARDNESS	104	1	LANL Int BG LVL	37.8	2.8	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	

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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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	16	18	8/8/2011	100	113	104	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Hardness	HARDNESS	100	1	LANL Int BG LVL	37.8	2.6	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	16	18	8/8/2011	7.62	8.59	7.93	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Magnesium	Mg	7.84	1	LANL Int BG LVL	3.14	2.5	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	18	8/8/2011	7.62	8.59	7.93	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Magnesium	Mg	7.62	1	LANL Int BG LVL	3.14	2.4	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	15	17	8/8/2011	3.38	4.35	3.57	17	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.47	1	LANL Int BG LVL	0.459	7.6	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	15	17	8/8/2011	3.38	4.35	3.57	17	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.55	1	LANL Int BG LVL	0.459	7.7	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	16	18	8/8/2011	4.86	6.68	5.76	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Perchlorate	ClO4	6.68	1.2	LANL Int BG LVL	0.27	24.7	0.5	µg/L	10		NQ	NQ	SW-846:6850	GELC	
C4	16	18	8/8/2011	4.86	6.68	5.76	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Perchlorate	ClO4	6.47	1.1	LANL Int BG LVL	0.27	24	0.5	µg/L	10		NQ	NQ	SW-846:6850	GELC	
C4	16	18	8/8/2011	127	151	140	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	METALS	Strontium	Sr	138	1	LANL Int BG LVL	59.6	2.3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	18	8/8/2011	127	151	140	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	METALS	Strontium	Sr	134	1	LANL Int BG LVL	59.6	2.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	18	8/8/2011	19.9	21.8	21.15	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	20.9	1	LANL Int BG LVL	7.1	2.9	0.266	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	16	18	8/8/2011	19.9	21.8	21.15	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	21	1	LANL Int BG LVL	7.1	3	0.266	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	16	18	8/8/2011	1.39	2.43	2.02	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Uranium	U	2.21	1.1	LANL Int BG LVL	0.992	2.2	0.067	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	16	18	8/8/2011	1.39	2.43	2.02	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Uranium	U	2.21	1.1	LANL Int BG LVL	0.992	2.2	0.067	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	16	17	10/23/2001	102	118	114	17	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	METALS	Barium	Ba	102	0.9	LANL Reg BG LVL	38.1	2.7	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	

Table 1: NMED 7-19 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	19	20	10/19/2000	34.4	38.2	35.6	20	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	GENINORG	Calcium	Ca	37	1	LANL Reg BG LVL	17.03	2.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	19	20	10/19/2000	6.44	8.99	7.1	20	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.99	1.3	LANL Reg BG LVL	2.7	3.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	16	17	10/23/2001	735	852	805	17	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	METALS	Strontium	Sr	809	1	LANL Reg BG LVL	157	5.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	19	20	10/19/2000	12.6	17	13.85	20	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	17	1.2	LANL Reg BG LVL	4.59	3.7	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	15	16	8/24/2004	7.58	12.7	10.6	16	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	GENINORG	Uranium	U	7.58	0.7	LANL Reg BG LVL	1.19	6.4	0.067	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	19	28	10/19/2000	96.5	238	130.5	28	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3 +HCO3	218	1.7	LANL Reg BG LVL	72.9	3	1.45	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C4	16	23	10/23/2001	81.1	239	92.7	23	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	METALS	Barium	Ba	168	1.8	LANL Reg BG LVL	38.1	4.4	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	19	28	10/19/2000	30	68.8	35.8	28	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	GENINORG	Calcium	Ca	62.5	1.7	LANL Reg BG LVL	17.03	3.7	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	16	23	10/23/2001	402	665	455	23	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	METALS	Strontium	Sr	572	1.3	LANL Reg BG LVL	157	3.6	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	34	40	11/30/2005	5.62	7.09	6.05	40	Sandia Canyon	Regional Top	R-10a	690	11/14/2018	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.69	1.1	LANL Reg BG LVL	2.7	2.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	34	40	11/30/2005	0.528	14.2	1.4	38	Sandia Canyon	Regional Top	R-10a	690	11/14/2018	REG	F	INIT	METALS	Nickel	Ni	7.82	5.6	LANL Reg BG LVL	2.9	2.7	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	34	40	11/30/2005	9.36	12.9	10.35	40	Sandia Canyon	Regional Top	R-10a	690	11/14/2018	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	10.9	1.1	LANL Reg BG LVL	4.59	2.4	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	34	40	11/30/2005	1.60	5.19	2.325	22	Sandia Canyon	Regional Top	R-10a	690	11/14/2018	REG	F	INIT	METALS	Arsenic	As	5.19	2.2	EPA MCL	10	0.5	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
CA	3	3	9/15/2000	6.70	6.7	6.7	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	270	6/16/2019	REG	UF	INIT	SVOC	Phenol	108-95-2	6.70	1	NM GW STD	5	1.3	3.09	µg/L	1	J	J	J_LAB	SW-846:8270D	GELC	

Table 2: NMED 7-19 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
XC2scr	15	15	8/8/2006	3.67	72.3	37.985	2	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	METALS	Tin	Sn	72.3	1.9	Int-Scr_95	13	5.6	2.5	µg/L	1		J+	I4a	SW-846:6010C	GELC	
XC2scr	9	10	8/29/2008	3	29	26.7	3	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.100	6/26/2019	FD	F	INIT	METALS	Tin	Sn	29	1.1	Int-Scr_95	13.0	2.3	2.50	µg/L	1.00	*	NQ	NQ	SW-846:6010C	GELC	
XC2scr	9	10	8/29/2008	3.4	29.3	26.70	3	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.100	6/26/2019	REG	F	INIT	METALS	Tin	Sn	26.7	1.0	Int-Scr_95	13.00	2.1	2.50	µg/L	1.0	*	NQ	NQ	SW-846:6010C	GELC	
XC2scr	11	15	9/15/2000	1	1	1	1	Upper Los Alamos Canyon	Intermediate Perched	R-9i S2	269.600	6/16/2019	REG	F	INIT	METALS	Antimony	Sb	1	1.0	Int-Scr_95	1	1.2	1.00	µg/L	1.00	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	3	4	2/13/2019	2.8	14.8	8.8	2	Water Canyon	Regional	R-69 S2	1375.5	6/6/2019	REG	F	INIT	METALS	Tin	Sn	14.8	1.7	Reg-Scr_95	13	1.1	2.5	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC2scr	50	54	8/30/2007	2.66	39	3.68	6	Sandia Canyon	Regional Deep	R-35a	1013.1	6/10/2019	FD	F	INIT	METALS	Tin	Sn	39	10.6	Reg-Scr_95	13	3	2.5	µg/L	1		J+	I4a	SW-846:6010C	GELC	
XC2scr	50	54	8/30/2007	2.66	39	3.68	6	Sandia Canyon	Regional Deep	R-35a	1013.1	6/10/2019	REG	F	INIT	METALS	Tin	Sn	35.8	9.7	Reg-Scr_95	13	2.8	2.5	µg/L	1		J+	I4a	SW-846:6010C	GELC	
XC2scr	52	57	2/22/2009	4.51	4.51	4.51	1	Mortandad Canyon	Regional Deep	R-44 S2	985.3	6/18/2019	REG	F	INIT	METALS	Copper	Cu	4.51	1	Reg-Scr_95	3	1.5	3	µg/L	1	J	J	J_LAB	SW-846:6010C	GELC	
XC2scr	8	8	11/14/2001	8.25	8.25	8.25	1	Pueblo Canyon	Regional Deep	R-5 S4	858.7	7/2/2019	REG	F	INIT	METALS	Copper	Cu	8.25	1	Reg-Scr_95	3	2.8	3	µg/L	1	J	J	J_LAB	SW-846:6010C	GELC	
XC2scr	9	9	11/14/2001	3.5	34.9	8.03	9	Pueblo Canyon	Regional Deep	R-5 S4	858.7	7/2/2019	REG	F	INIT	METALS	Zinc	Zn	34.9	4.3	Reg-Scr_95	14.4	2.4	3.3	µg/L	1		J+	I4a	SW-846:6010C	GELC	
XC2scr	52	54	3/11/2010	2.69	17.3	3.5	5	Mortandad Canyon	Regional Deep	R-50 S2	1185	6/11/2019	REG	F	INIT	METALS	Tin	Sn	17.3	4.9	Reg-Scr_95	13	1.3	2.5	µg/L	1		J+	I4a	SW-846:6010C	GELC	
XC2scr	5	5	5/30/2001	30.4	3400	3080	5	Upper Los Alamos Canyon	Regional Top	R-7 S3	895.5	6/23/2019	REG	F	INIT	METALS	Manganese	Mn	30.4	0	Reg-Scr_95	12.1	2.5	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC2scr	1	1	6/23/2019	28.9	28.9	28.9	1	Upper Los Alamos Canyon	Regional Top	R-7 S3	895.5	6/23/2019	REG	F	INIT	METALS	Tin	Sn	28.9	1	Reg-Scr_95	13	2.2	2.5	µg/L	1		J+	I4a	SW-846:6010C	GELC	
XC2scr	10	11	6/29/2006	0.104	0.104	0.104	1	Sandia Canyon	Regional Deep	R-10 S2	1042	11/14/2018	REG	UF	INIT	INORGANIC	Cyanide (Total)	CN(TOTAL)	0.104	1	Reg-Scr_95	0.0017	61	0.002	mg/L	1		NQ	NQ	EPA:335.4	GELC	FD was nondetect
XC4scr	15	15	8/8/2006	212	252	234	15	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	METALS	Boron	B	252	1.1	Int-Scr_95	16.2	16	15	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	16	16	8/8/2006	331	403	369.5	16	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	403	1.1	Int-Scr_95	135	3	3.4	mg/L	1		J+	I4a	EPA:160.1	GELC	
XC4scr	17	17	5/7/2005	0.032	1.69	1.13	17	Pueblo Canyon	Intermediate Perched	POI-4	159	6/12/2019	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	1.09	1	Int-Scr_95	0.178	6.1	0.02	mg/L	1		J+	I4a	EPA:365.4	GELC	

Table 2: NMED 7-19 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
XC4scr	16	18	8/10/2006	84.6	152	101	18	Pueblo Canyon	Intermediate Perched	R-3i	215.2	6/24/2019	REG	F	INIT	METALS	Boron	B	152	1.5	Int-Scr_95	16.2	9.4	15	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	17	20	8/10/2006	251	437	325	20	Pueblo Canyon	Intermediate Perched	R-3i	215.2	6/24/2019	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	349	1.1	Int-Scr_95	135	2.6	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
XC4scr	14	19	4/29/2010	151	195	168	19	Pueblo Canyon	Intermediate Perched	TW-2Ar	102	6/21/2019	REG	F	INIT	METALS	Boron	B	159	0.9	Int-Scr_95	16.2	9.8	15	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	18	22	11/15/2005	41.8	64	50.6	21	Lower Los Alamos Canyon	Regional Top	R-24	825	6/14/2019	REG	F	INIT	METALS	Boron	B	45.2	0.9	Reg-Scr_95	18.7	2.4	15	µg/L	1	J	J	J_LAB	SW-846:6010C	GELC	
XC4scr	36	42	5/20/2011	0.0531	11.8	0.686	39	Mortandad Canyon	Regional Top	R-61 S1	1125	6/6/2019	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.472	0.7	Reg-Scr_95	0.0822	5.7	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	
XC4scr	16	18	8/8/2011	0.136	0.19	0.162	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.183	1.1	Int-Scr_95	0.0716	2.6	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	16	18	8/8/2011	0.136	0.19	0.162	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.166	1	Int-Scr_95	0.0716	2.3	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	16	17	10/23/2001	49.4	61.9	52.7	17	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	METALS	Boron	B	61.9	1.2	Reg-Scr_95	18.7	3.3	15	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	14	15	7/12/2005	0.092	0.163	0.137	13	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.137	1	Reg-Scr_95	0.067	2	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	16	23	10/23/2001	36.3	946	126	21	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	METALS	Iron	Fe	717	5.7	Reg-Scr_95	53.8	13	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	16	23	10/23/2001	32.8	994	197	21	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	METALS	Manganese	Mn	482	2.4	Reg-Scr_95	12.1	40	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	