



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

EMLA-2021-0153-02-001

February 26, 2021

Mr. Kevin Pierard
Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Subject: Monthly Notification of Groundwater Data Reviewed in February 2021

Dear Mr. Pierard:

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 (2016 Consent Order). Members of EM-LA and N3B met on February 11, 2021, to review groundwater data loaded or released in the Environmental Information Management System (EIM) during the previous calendar month. 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." The EPA tap water standard's carcinogenic risk values were adjusted to 1×10^{-5} , as specified in the 2016 Consent Order.

The enclosed report was prepared using the November 2020 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, as required under the Memorandum of Agreement dated May 28, 2014, between the DOE National Nuclear Security Administration Los Alamos Field Office and Pueblo de San Ildefonso.

1-Day Notification

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

In accordance with the notification provisions of the 2016 Consent Order, NMED was notified by phone on February 11, 2021, and an email was sent the same day.

A filtered sample collected on December 16, 2021, from the regional aquifer well R-45 screen 2 resulted in the measurement of one contaminant that exceeded its corresponding New Mexico ground water standard screening level. Chromium was measured at 55 µg/L, in excess of the 50-µg/L screening level.

15-Day Notification

The information required for constituents that meet the five reporting criteria requiring written notification within 15 days is provided 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) 257-7943 (hai.shen@em.doe.gov).

Sincerely,

Arturo Q. Duran

Digitally signed by Arturo Q.
Duran
Date: 2021.02.25 16:30:54
-07'00'

Arturo Q. Duran
Compliance and Permitting Manager
Environmental Management
Los Alamos Field Office

Enclosures:

1. Summary of Groundwater Data Reviewed in February 2021 That Meet Notification Requirements (EM2021-0125)

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

Harry Burgess, Los Alamos County, Los Alamos, NM (2 copies)

CC (letter and enclosure[s] emailed):

Laurie King, EPA Region 6, Dallas, TX

Raymond Martinez, San Ildefonso Pueblo, NM

Dino Chavarria, Santa Clara Pueblo, NM

David Gomez, Los Alamos County, Los Alamos, NM

Chris Catechis, NMED-DOE-OB

Steve Yanicak, NMED-DOE-OB

Michelle Hunter, NMED-SWQB

Steve Pullen, NMED-SWQB

Andrew C. Romero, NMED-SWQB

Melanie Sandoval, NMED-SWQB

Jocelyn Buckley, LANL

Leslie Dale, LANL

Brian Iacona, LANL

William Mairson, LANL

Jennifer Payne, LANL
Enrique Torres, LANL
Felicia Aguilar, N3B
William Alexander, N3B
Emily Day, N3B
Mei Ding, N3B
Zoe Duran, N3B
Jeff Holland, N3B
Danny Katzman, N3B
Kim Lebak, N3B
Joseph Legare, N3B
Dana Lindsay, N3B
Pamela Maestas, N3B
Glenn Morgan, N3B
Joseph Murdock, N3B
Bruce Robinson, N3B
Steve Veenis, N3B
Brinson Willis, N3B
Karen Armijo, NA-LA
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Public Reading Room (EPRR)
PRS website

Pamela T. Maestas

From: Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>
Sent: Tuesday, March 2, 2021 7:39 AM
To: Pamela T. Maestas
Subject: RE: Submittal to NMED on 2/26/2021 of Monthly GW Data Review for February

Good Morning,
Received
Thank you.

From: Pamela T. Maestas <pamela.maestas@em-la.doe.gov>
Sent: Monday, March 1, 2021 2:21 PM
To: Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>
Subject: [EXT] RE: Submittal to NMED on 2/26/2021 of Monthly GW Data Review for February

Also, if you will, please respond to the email below for the monthly GW data, and the submittal of the R-25 report (also sent 2/26).

THANK YOU. 😊

From: Pamela T. Maestas <pamela.maestas@em-la.doe.gov>
Sent: Friday, February 26, 2021 8:59 AM
To: 'Pierard, Kevin, NMENV' <Kevin.Pierard@state.nm.us>
Cc: 'Dhawan, Neelam, NMENV' <neelam.dhawan@state.nm.us>; siona.briley@state.nm.us; Chris.Catechis@state.nm.us; Krambis, Christopher, NMENV <Christopher.Krambis@state.nm.us>; 'Martinez, Cynthia, NMENV' <cynthia.martinez1@state.nm.us>; Emily M. Day <Emily.Day@em-la.doe.gov>; Regulatory Documentation <RegDocs@EM-LA.DOE.GOV>; Brinson Willis <Brinson.Willis@em-la.doe.gov>; Zoe A. Duran <zoe.duran@em-la.doe.gov>
Subject: Submittal to NMED on 2/26/2021 of Monthly GW Data Review for February

Mr. Pierard,

Attached for submittal is a pdf of the following:

- Monthly Notification of Groundwater Data Reviewed in February 2021 (EMLA-2021-0153-02-001, letter and enclosure)

Please acknowledge receipt of this submittal by responding to this email.

Let me know if you have any questions.

Thank you.

Pamela T. Maestas
Regulatory Documentation Manager
Newport News Nuclear BWXT-Los Alamos, LLC
c. 505-927-7882
regdocs@em-la.doe.gov



1200 Trinity Drive, Suite 150
Los Alamos, NM 87544

SUMMARY OF GROUNDWATER DATA REVIEWED IN FEBRUARY 2021 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 2021 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 01-2021 Groundwater Report, presents categorical results since June 14, 2007, that met the five reporting criteria as specified in the 2016 Consent Order. Table 2, NMED 01-2021 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 that identifies 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.” The EPA tap water standard’s carcinogenic risk values were adjusted to 1×10^{-5} , as specified in the 2016 Consent Order. This report was prepared using the November 2020 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 criterion 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 indicates 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 a water quality standard at that location. N3B, under the U.S. Department of Energy Environmental Management Los Alamos Field Office, 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” (June 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 qualifier 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

Acronyms and Abbreviations

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

DOECAP—Department of Energy Consolidated Audit Program

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

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

GENINORG—General inorganic

HEXP—high explosive

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

HRMS—high-resolution mass spectrometry

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

LCS—laboratory control sample

MDL—method detection limit

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

MS—matrix spike

MSD—matrix spike duplicate

n/a—not applicable

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

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

NTU—nephelometric turbidity unit

PETN—pentaerythritol tetranitrate

PFAS—per- and polyfluoroalkyl substances

PQL—practical quantitation limit

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

SIM—selected ion monitoring

SVOC—semivolatile organic compound

TDS—total dissolved solids

TNX—2,4,6-trinitroxylylene

UAL—upper acceptance limit

UOM—unit of measurement

VOC—volatile organic compound

Analytical Laboratory Codes and Qualifiers

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

CFA—Cape Fear Analytical, LLC

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.

HE1a (validation reason code)—The quantitating internal standard area count was below the lower acceptance limit.

HE12a (validation reason code)—The LCS %recovery was less than the lower acceptance limit but greater than 10%.

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

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.

I6b (validation reason code)—The associated matrix spike recovery was above the UAL. Follow the external laboratory limits located within the associated data package.

I9b (validation reason code)—The affected analytes are regarded as rejected because the analytical holding time was exceeded.

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.

PE12e (validation reason code)—The MS/MSD percent recovery was >10% but <75%.

RE—reanalysis

REG—regular sample

SV7c (validation reason code)—The percent drift was above acceptance limits in the initial calibration verification (ICV) or continuing calibration verification (CCV).

SwRI—Southwest Research Institute

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 01-21 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	AnyI 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	AnyI Meth Code	Lab Code	Comment
C1	5	5	12/16/2000	1.73	12	4.2	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	UF	INIT	VOC	Acetone	67-64-1	1.96	0.5	NMED A1 TAP SCRN LVL	14,100	0.0	1.50	µg/L	1.00	J	J	J_LAB	SW-846:8260B	GELC	
C1	6	7	09/27/2001	10.6	10.6	10.6	1	Ancho Canyon	Regional	R-31 S4	826.6	12/18/2020	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	10.6	1.0	EPA TAP SCRN LVL	75,000	0.0	6.16	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	
C1	17	21	10/23/2001	1.61	1.61	1.61	1	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/01/2020	REG	UF	INIT	VOC	Isopropyltoluene[4-]	99-87-6	1.61	1.0	n/a	n/a	n/a	0.300	µg/L	1.00		NQ	NQ	SW-846:8260B	GELC	
C2	16	16	09/14/2000	0.0207	0.795	0.096	7	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	0.795	8.3	LANL Int BG LVL	0.459	1.7	0.0170	mg/L	1.00		NQ	NQ	EPA:353.2	GELC	
C2	11	11	08/29/2008	0.204	0.483	0.2255	4	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.483	2.1	LANL Int BG LVL	0.27	1.8	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C2	5	5	12/16/2000	49.5	240	65	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Metals	Barium	Ba	49.5	0.8	LANL Reg BG LVL	38.1	1.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C2	5	5	12/16/2000	0.322	0.501	0.427	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.501	1.2	LANL Reg BG LVL	0.377	1.3	0.0330	mg/L	1.00		J-	I6a	EPA:300.0	GELC	
C2	5	5	12/16/2000	2.2	40	3.6	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Metals	Nickel	Ni	3.34	0.9	LANL Reg BG LVL	2.9	1.2	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C2	20	22	09/26/2000	1.48	2.95	1.81	22	Pajarito Canyon	Regional Top	R-19 S3	1171.4	12/18/2020	FD	F	INIT	Geninorg	Chloride	Cl(-1)	2.95	1.6	LANL Reg BG LVL	2.7	1.1	0.0670	mg/L	1.00		J-	I6a	EPA:300.0	GELC	
C2	20	22	09/26/2000	1.48	2.95	1.81	22	Pajarito Canyon	Regional Top	R-19 S3	1171.4	12/18/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	2.87	1.6	LANL Reg BG LVL	2.7	1.1	0.0670	mg/L	1.00		J-	I6a	EPA:300.0	GELC	
C2	5	6	05/30/2001	0.33	0.51	0.396	5	Upper Los Alamos Canyon	Regional Top	R-7 S3	895.5	12/14/2020	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.510	1.3	LANL Reg BG LVL	0.377	1.4	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C2	15	16	04/26/2004	65.8	78.4	68.15	16	Upper Los Alamos Canyon	Regional Top	R-8 S1	705.3	12/15/2020	FD	F	INIT	Geninorg	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	76.0	1.1	LANL Reg BG LVL	72.9	1.0	1.45	mg/L	1.00		J+	I19	EPA:310.1	GELC	
C2	15	16	04/26/2004	65.8	78.4	68.15	16	Upper Los Alamos Canyon	Regional Top	R-8 S1	705.3	12/15/2020	REG	F	INIT	Geninorg	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	78.4	1.2	LANL Reg BG LVL	72.9	1.1	1.45	mg/L	1.00		J+	I19	EPA:310.1	GELC	
C3	5	5	12/16/2000	250	4170	2220	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Metals	Iron	Fe	772	0.3	NM GW STD	1000	0.8	30.0	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C3	5	5	12/16/2000	102	3500	276	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Metals	Manganese	Mn	102	0.4	NM GW STD	200	0.5	2.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	12	12	02/23/2004	187	204	194.5	12	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Metals	Barium	Ba	189	1.0	LANL Int BG LVL	13.5	14.0	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	12	12	02/23/2004	27.9	31.9	30.65	12	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Metals	Calcium	Ca	30.6	1.0	LANL Int BG LVL	10.7	2.9	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	15	15	02/23/2004	6.72	8.38	7.27	15	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	8.38	1.2	LANL Int BG LVL	3.11	2.7	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	15	15	02/23/2004	0.992	1.29	1.06	15	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Geninorg	Fluoride	F(-1)	1.29	1.2	LANL Int BG LVL	0.234	5.5	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	9	9	07/25/2006	80.7	92.4	88.1	9	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Geninorg	Hardness	Hardness	88.4	1.0	LANL Int BG LVL	37.8	2.3	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	16	16	02/23/2004	2.31	3.28	2.725	16	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.87	1.1	LANL Int BG LVL	0.459	6.3	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	11	11	04/17/2007	1.24	2.16	1.38	11	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	2.16	1.6	LANL Int BG LVL	0.27	8.0	0.200	µg/L	4.00		NQ	NQ	SW-846:6850	GELC	

Table 1: NMED 01-21 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
C4	12	12	02/23/2004	289	329	309	12	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Metals	Strontium	Sr	314	1.0	LANL Int BG LVL	59.6	5.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	12	12	02/23/2004	2.58	2.9	2.8	12	Pueblo Canyon	Intermediate	R-5 S2	372.8	12/09/2020	REG	F	INIT	Metals	Uranium	U	2.74	1.0	LANL Int BG LVL	0.992	2.8	0.0670	µg/L	1.00	J+	I4a	SW-846:6020B	GELC		
C4	20	20	09/22/2000	0.409	0.849	0.552	20	Pajarito Canyon	Intermediate Perched	R-19 S2	893.3	12/17/2020	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.617	1.1	LANL Int BG LVL	0.234	2.6	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	13	13	09/14/2000	37.9	72.6	56.6	13	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	Metals	Barium	Ba	37.9	0.7	LANL Int BG LVL	13.5	2.8	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	15	16	09/14/2000	24	45.5	39	15	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	45.5	1.2	LANL Int BG LVL	3.11	14.6	0.670	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	9	9	08/29/2008	74.5	96.9	86.8	9	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	Geninorg	Hardness	Hardness	80.0	0.9	LANL Int BG LVL	37.8	2.1	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	13	13	09/14/2000	5.6	8.84	7.41	13	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	Metals	Magnesium	Mg	7.02	0.9	LANL Int BG LVL	3.14	2.2	0.11	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	13	13	09/14/2000	7.45	21	11	13	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	Metals	Molybdenum	Mo	7.53	0.7	LANL Int BG LVL	2.9	2.6	0.200	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	13	13	09/14/2000	110	141	126	13	Upper Los Alamos Canyon	Intermediate Perched	R-9i S1	189.1	12/01/2020	REG	F	INIT	Metals	Strontium	Sr	121	1.0	LANL Int BG LVL	59.6	2.0	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	66	74	08/30/2007	68	408	346.5	74	Sandia Canyon	Regional Deep	R-35a	1013.1	12/07/2020	REG	F	INIT	Metals	Barium	Ba	355	1.0	LANL Reg BG LVL	38.1	9.3	1.00	µg/L	1.00	E	NQ	NQ	SW-846:6010C	GELC	
C4	65	74	08/30/2007	5.97	7.31	6.54	74	Sandia Canyon	Regional Deep	R-35a	1013.1	12/07/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.56	1.0	LANL Reg BG LVL	2.7	2.4	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	66	74	08/30/2007	1.2	22.2	7.6	73	Sandia Canyon	Regional Deep	R-35a	1013.1	12/07/2020	REG	F	INIT	Metals	Nickel	Ni	11.8	1.6	LANL Reg BG LVL	2.9	4.1	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	65	69	03/05/2009	2.74	6.18	4.41	69	Mortandad Canyon	Regional Deep	R-45 S2	974.9	12/16/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.18	1.4	LANL Reg BG LVL	2.7	2.3	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	65	74	03/05/2009	6.1	55	22.6	73	Mortandad Canyon	Regional Deep	R-45 S2	974.9	12/16/2020	REG	F	INIT	Metals	Chromium	Cr	55.0	2.4	LANL Reg BG LVL	7.48	7.4	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	5	6	08/04/2020	17.8	19.3	18.7	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	12/03/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	17.8	1.0	LANL Reg BG LVL	2.7	6.6	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	5	6	08/04/2020	3.79	4.06	3.925	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	12/03/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.06	1.0	LANL Reg BG LVL	0.769	5.3	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	5	6	08/04/2020	0.812	0.986	0.8965	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	12/03/2020	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.986	1.1	LANL Reg BG LVL	0.414	2.4	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	5	6	08/04/2020	30.1	32.6	31.65	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	12/03/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	30.8	1.0	LANL Reg BG LVL	4.59	6.7	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	18	25	10/23/2001	81.1	239	94.6	25	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/01/2020	REG	F	INIT	Metals	Barium	Ba	106	1.1	LANL Reg BG LVL	38.1	2.8	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	21	30	10/19/2000	30	68.8	35.8	30	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/01/2020	REG	F	INIT	Metals	Calcium	Ca	34.3	1.0	LANL Reg BG LVL	17.03	2.0	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	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	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
C4	18	25	10/23/2001	392	665	446	25	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/01/2020	REG	F	INIT	Metals	Strontium	Sr	392	0.9	LANL Reg BG LVL	157	2.5	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	78	94	05/17/2005	2.27	7.43	5.41	94	Sandia Canyon	Regional Top	R-11	855.0	12/08/2020	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.40	1.0	LANL Reg BG LVL	0.769	7.0	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	78	94	05/17/2005	2.27	7.43	5.41	94	Sandia Canyon	Regional Top	R-11	855.0	12/08/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.53	1.0	LANL Reg BG LVL	0.769	7.2	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	78	94	05/17/2005	5.95	20.2	10.2	94	Sandia Canyon	Regional Top	R-11	855.0	12/08/2020	FD	F	INIT	Geninorg	Sulfate	SO4(-2)	9.29	0.9	LANL Reg BG LVL	4.59	2.0	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	78	94	05/17/2005	5.95	20.2	10.2	94	Sandia Canyon	Regional Top	R-11	855.0	12/08/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	9.21	0.9	LANL Reg BG LVL	4.59	2.0	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	68	71	02/17/2009	1.99	20.3	2.45	71	Mortandad Canyon	Regional Top	R-44 S1	895.0	12/14/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	18.4	7.5	LANL Reg BG LVL	2.7	6.8	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	68	71	02/17/2009	0.536	109	10.42	44	Mortandad Canyon	Regional Top	R-44 S1	895.0	12/14/2020	REG	F	INIT	Metals	Nickel	Ni	33.3	3.2	LANL Reg BG LVL	2.9	11.5	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	68	71	02/17/2009	0.123	2.66	1.195	70	Mortandad Canyon	Regional Top	R-44 S1	895.0	12/14/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.55	2.1	LANL Reg BG LVL	0.769	3.3	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	68	71	02/17/2009	2.76	19.9	3.55	71	Mortandad Canyon	Regional Top	R-44 S1	895.0	12/14/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	19.0	5.4	LANL Reg BG LVL	4.59	4.1	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	66	71	02/28/2009	3	16.7	5.11	71	Mortandad Canyon	Regional Top	R-45 S1	880.0	12/16/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	16.7	3.3	LANL Reg BG LVL	2.7	6.2	0.134	mg/L	2.00		NQ	NQ	EPA:300.0	GELC	
C4	66	71	02/28/2009	0.256	3.47	2.79	71	Mortandad Canyon	Regional Top	R-45 S1	880.0	12/16/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.06	1.1	LANL Reg BG LVL	0.769	4.0	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	66	71	02/28/2009	4.1	17.2	7.71	71	Mortandad Canyon	Regional Top	R-45 S1	880.0	12/16/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	16.2	2.1	LANL Reg BG LVL	4.59	3.5	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	68	76	03/06/2010	4.68	20	9.48	76	Mortandad Canyon	Regional Top	R-50 S1	1077.0	12/17/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	19.7	2.1	LANL Reg BG LVL	2.7	7.3	0.134	mg/L	2.00		J-	I6a	EPA:300.0	GELC	
C4	68	78	03/06/2010	23.2	150	86	78	Mortandad Canyon	Regional Top	R-50 S1	1077.0	12/17/2020	REG	F	INIT	Metals	Chromium	Cr	23.2	0.3	LANL Reg BG LVL	7.48	3.1	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	68	76	03/06/2010	1.51	14.6	4.79	76	Mortandad Canyon	Regional Top	R-50 S1	1077.0	12/17/2020	REG	F	INIT	Metals	Nickel	Ni	6.55	1.4	LANL Reg BG LVL	2.9	2.3	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	68	77	03/06/2010	0.398	2.94	2.05	77	Mortandad Canyon	Regional Top	R-50 S1	1077.0	12/17/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.80	1.4	LANL Reg BG LVL	0.769	3.6	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	68	76	03/06/2010	7.22	20.2	14	76	Mortandad Canyon	Regional Top	R-50 S1	1077.0	12/17/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	19.1	1.4	LANL Reg BG LVL	4.59	4.2	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	52	59	05/20/2011	2.03	39.1	21.4	58	Mortandad Canyon	Regional Top	R-61 S1	1125.0	12/04/2020	REG	F	INIT	Metals	Chromium	Cr	35.2	1.6	LANL Reg BG LVL	7.48	4.7	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	52	59	05/20/2011	0.427	2.95	2.18	59	Mortandad Canyon	Regional Top	R-61 S1	1125.0	12/04/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.43	1.1	LANL Reg BG LVL	0.769	3.2	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	51	58	05/20/2011	2.96	16.2	11.85	58	Mortandad Canyon	Regional Top	R-61 S1	1125.0	12/04/2020	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	13.6	1.1	LANL Reg BG LVL	0.414	32.9	1.00	µg/L	20.0		NQ	NQ	SW-846:6850	GELC	
C4	5	5	08/04/2020	5.78	7.28	6.08	5	Mortandad Canyon	Regional Top	R-70 S1	963.0	12/03/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.41	1.1	LANL Reg BG LVL	2.7	2.4	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	

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C4	5	5	08/04/2020	2.57	2.92	2.78	5	Mortandad Canyon	Regional Top	R-70 S1	963.0	12/03/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.92	1.1	LANL Reg BG LVL	0.769	3.8	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C5	65	74	03/05/2009	6.1	55	22.6	73	Mortandad Canyon	Regional Deep	R-45 S2	974.9	12/16/2020	REG	F	INIT	Metals	Chromium	Cr	55.0	2.4	NM GW STD	50	1.1	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C5	51	58	05/20/2011	2.96	16.2	11.85	58	Mortandad Canyon	Regional Top	R-61 S1	1125.0	12/04/2020	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	13.6	1.1	NMED A1 TAP SCRNL LVL	13.8	1.0	1.00	µg/L	20.0		NQ	NQ	SW-846:6850	GELC	
CA	65	74	03/05/2009	6.1	55	22.6	73	Mortandad Canyon	Regional Deep	R-45 S2	974.9	12/16/2020	REG	F	INIT	Metals	Chromium	Cr	55.0	2.4	NM GW STD	50	1.1	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	

Table 2: NMED 01-21 Groundwater Report Addendum

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
XC2scr	5	5	12/16/2000	250	4170	2220	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Metals	Iron	Fe	772	0.3	Reg-Scr_95	53.8	14.3	30.0	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
XC2scr	5	5	12/16/2000	102	3500	276	5	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Metals	Manganese	Mn	102	0.4	Reg-Scr_95	12.1	8.4	2.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
XC2scr	5	5	12/16/2000	3.2	46.2	6.2	3	Ancho Canyon	Regional	R-31 S3	666.3	12/16/2020	REG	F	INIT	Metals	Zinc	Zn	46.2	7.5	Reg-Scr_95	14.4	3.2	3.30	µg/L	1.00	J+	I4a	SW-846:6010C	GELC		
XC2scr	66	71	02/28/2009	0.0218	0.14	0.03485	20	Mortandad Canyon	Regional Top	R-45 S1	880.0	12/16/2020	REG	F	INIT	Geninorg	Ammonia as Nitrogen	NH3-N	0.140	4.0	Reg-Scr_95	0.1	1.4	0.0170	mg/L	1.00		NQ	NQ	EPA:350.1	GELC	
XC2scr	5	5	05/30/2001	2.93	5.79	4.36	2	Upper Los Alamos Canyon	Regional Top	R-7 S3	895.5	12/14/2020	REG	F	INIT	Metals	Arsenic	As	2.93	0.7	Reg-Scr_95	2.7	1.1	2.00	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC2scr	5	5	05/30/2001	18.9	3400	3080	5	Upper Los Alamos Canyon	Regional Top	R-7 S3	895.5	12/14/2020	REG	F	INIT	Metals	Manganese	Mn	18.9	0.0	Reg-Scr_95	12.1	1.6	2.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
XC4scr	66	74	08/30/2007	20.6	48.2	38.85	68	Sandia Canyon	Regional Deep	R-35a	1013.1	12/07/2020	REG	F	INIT	Metals	Boron	B	43.0	1.1	Reg-Scr_95	18.7	2.3	15.0	µg/L	1.00	J	J	J_LAB	SW-846:6010C	GELC	
XC4scr	18	25	10/23/2001	36.3	946	155	23	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/01/2020	REG	F	INIT	Metals	Iron	Fe	481	3.1	Reg-Scr_95	53.8	8.9	30.0	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
XC4scr	18	25	10/23/2001	32.8	994	211	23	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/01/2020	REG	F	INIT	Metals	Manganese	Mn	211	1.0	Reg-Scr_95	12.1	17.4	2.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
XC4scr	68	71	02/17/2009	0.0757	0.16	0.144	26	Mortandad Canyon	Regional Top	R-44 S1	895.0	12/14/2020	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.160	1.1	Reg-Scr_95	0.067	2.4	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	52	59	05/20/2011	0.0531	11.8	0.551	56	Mortandad Canyon	Regional Top	R-61 S1	1125.0	12/04/2020	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.249	0.5	Reg-Scr_95	0.0822	3.0	0.0200	mg/L	1.00	J+	I4a	EPA:365.4	GELC		