



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

January 28, 2021

EMLA-2021-0137-02-001

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 January 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 January 14, 2021, to review groundwater data loaded or released in the Environmental Information Management System (EIM) in December 2020. 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  $1 \times 10^{-5}$ , 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 were two instances 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 January 15, 2021, and an email was sent the same day.

An unfiltered sample collected on November 9, 2020, from the regional aquifer well R-70 screen 1 resulted in the measurement of two contaminants that exceeded their corresponding NMED tap water screening levels, as specified in the June 2019 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation." The organic compound Benzo(a)anthracene was measured at 0.373 µg/L, in excess of the 0.12 µg/L screening level, and Benzo(b)fluoranthene, another organic compound, was measured at 0.589 µg/L, which exceeded the 0.343 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: 2021.01.26 13:05:26  
-07'00'

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

Enclosures:

1. Summary of Groundwater Data Reviewed in January 2021 That Meet Notification Requirements (EM2021-0059)

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  
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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  
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Public Reading Room (EPRR)  
PRS website

**Pamela T. Maestas**

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**From:** Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>  
**Sent:** Friday, January 29, 2021 1:40 PM  
**To:** Pamela T. Maestas  
**Subject:** RE: Submittal to NMED on 1/28/2021 of Monthly GW Data Review for January

Hello,  
Received.

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**From:** Pamela T. Maestas <pamela.maestas@em-la.doe.gov>  
**Sent:** Thursday, January 28, 2021 4:52 PM  
**To:** Pierard, Kevin, NMENV <Kevin.Pierard@state.nm.us>  
**Cc:** Dhawan, Neelam, NMENV <neelam.dhawan@state.nm.us>; Krambis, Christopher, NMENV <Christopher.Krambis@state.nm.us>; Catechis, Chris, NMENV <Chris.Catechis@state.nm.us>; Briley, Siona, NMENV <Siona.Briley@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>; Willis, Brinson <Brinson.Willis@tetrattech.com>; Zoe A. Duran <zoe.duran@em-la.doe.gov>  
**Subject:** [EXT] Submittal to NMED on 1/28/2021 of Monthly GW Data Review for January

Mr. Pierard,

Attached for submittal is a pdf of the following:

- Monthly Notification of Groundwater Data Reviewed in January 2021 (EMLA-2021-0137-02-001, 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](mailto:regdocs@em-la.doe.gov)



1200 Trinity Drive, Suite 150

Los Alamos, NM 87544

## **SUMMARY OF GROUNDWATER DATA REVIEWED IN JANUARY 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 12-2020 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 12-2020 Groundwater Report Addendum, presents results that exceed the 95<sup>th</sup> 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  $1 \times 10^{-5}$ , 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 95<sup>th</sup> 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 95<sup>th</sup> percentile in a spring or screened interval of a well if that contaminant has not previously exceeded the 95<sup>th</sup> 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 95<sup>th</sup> 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 12-20 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	1	1	09/03/2020	0.000785	0.000785	0.000785	1	Lower Los Alamos Canyon	Alluvial	LLAO-4	5.2	09/03/2020	REG	UF	INIT	Low-level nitrosamines	Nitroso-di-n-butylamine[N-]	924-16-3	0.000785	1.0	NMED A1 TAP SCRNLVL	0.0273	0.0	0.00047	µg/L	1		NQ	NQ	Nitrosamines: HRMS	SwRI	First measurement using low MDL method
C1	1	1	09/03/2020	2.18	2.18	2.18	1	Lower Los Alamos Canyon	Alluvial	LLAO-4	5.2	09/03/2020	REG	UF	INIT	PFAS	Perfluorohexanesulfonic acid	355-46-4	2.18	1.0	NMED A1 TAP SCRNLVL	70	0.0	0.627	ng/L	1.00		NQ	NQ	EPA:537M	GELC	First sampling for PFAS
C1	1	1	09/03/2020	3.52	3.52	3.52	1	Lower Los Alamos Canyon	Alluvial	LLAO-4	5.2	09/03/2020	REG	UF	INIT	PFAS	Perfluorooctanesulfonic acid	1763-23-1	3.52	1.0	NMED A1 TAP SCRNLVL	70	0.1	0.759	ng/L	1.00		NQ	NQ	EPA:537M	GELC	First sampling for PFAS
C1	1	1	09/03/2020	4.41	4.41	4.41	1	Lower Los Alamos Canyon	Alluvial	LLAO-4	5.2	09/03/2020	REG	UF	INIT	PFAS	Perfluorooctanoic acid	335-67-1	4.41	1.0	NMED A1 TAP SCRNLVL	70	0.1	0.759	ng/L	1.00		NQ	NQ	EPA:537M	GELC	First sampling for PFAS
C1	2	3	11/14/2019	0.68	0.68	0.68	1	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	UF	INIT	PFAS	Perfluorohexanesulfonic acid	355-46-4	0.680	1.0	NMED A1 TAP SCRNLVL	70	0.0	0.572	ng/L	1.00	J	J	J_LAB	EPA:537M	GELC	First sampling for PFAS
C1	1	1	09/09/2020	0.986	0.986	0.986	1	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	UF	INIT	Low-level 1,4-dioxane	Dioxane[1,4-]	123-91-1	0.986	1.0	NMED A1 TAP SCRNLVL	4.59	0.2	0.100	µg/L	1.00		J	SV19	SW-846:8270E SIM	GELC	First measurement using low MDL method
C1	34	38	02/09/2004	2.16	2.5	2.33	2	Mortandad Canyon	Regional Top	R-14 S1	1200.6	11/18/2020	REG	UF	INIT	VOC	Acetone	67-64-1	2.16	0.9	NMED A1 TAP SCRNLVL	14100	0.0	1.50	µg/L	1.00	J	J	J_LAB	SW-846:8260B	GELC	A potential laboratory contaminant
C1	2	4	11/12/2019	1	1	1	1	Mortandad Canyon	Regional Top	R-14 S1	1200.6	11/18/2020	REG	UF	INIT	PFAS	Perfluorooctanesulfonic acid	1763-23-1	1.00	1.0	NMED A1 TAP SCRNLVL	70	0.0	0.734	ng/L	1.00	J	J	J_LAB	EPA:537M	GELC	
C1	2	2	08/04/2020	0.579	0.579	0.579	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Acenaphthylene	208-96-8	0.579	1.0	n/a	n/a	n/a	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.

Table 1: NMED 12-20 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fid OC 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	2	2	08/04/2020	0.373	0.373	0.373	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.373	1.0	NMED A1 TAP SCRNLVL	0.12	3.1	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C1	2	2	08/04/2020	0.589	0.589	0.589	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Benzo(b)fluoranthene	205-99-2	0.589	1.0	NMED A1 TAP SCRNLVL	0.343	1.7	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C1	2	2	08/04/2020	0.569	0.569	0.569	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Butylbenzylphthalate	85-68-7	0.569	1.0	EPA TAP SCRNLVL	160	0.0	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C1	2	2	08/04/2020	0.442	0.442	0.442	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Chrysene	218-01-9	0.442	1.0	NMED A1 TAP SCRNLVL	34.3	0.0	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.

Table 1: NMED 12-20 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fid OC 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	2	2	08/04/2020	1.34	1.34	1.34	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Diethylphthalate	84-66-2	1.34	1.0	NMED A1 TAP SCRNLVL	14800	0.0	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C1	2	2	08/04/2020	1.65	1.65	1.65	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Dimethyl Phthalate	131-11-3	1.65	1.0	NMED A1 TAP SCRNLVL	612	0.0	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C1	2	2	08/04/2020	0.353	0.353	0.353	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Di-n-octylphthalate	117-84-0	0.353	1.0	EPA TAP SCRNLVL	200	0.0	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C1	2	2	08/04/2020	0.854	0.854	0.854	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Fluoranthene	206-44-0	0.854	1.0	NMED A1 TAP SCRNLVL	802	0.0	0.294	µg/L	1.00	J	J	SV7c	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.

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C1	2	2	08/04/2020	0.461	0.461	0.461	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Fluorene	86-73-7	0.461	1.0	NMED A1 TAP SCRNLVL	288	0.0	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C1	2	2	08/04/2020	0.559	0.559	0.559	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Methylnaphthalene[2-]	91-57-6	0.559	1.0	NMED A1 TAP SCRNLVL	35.1	0.0	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C2	5	6	08/04/2020	131	158	141	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	11/09/2020	REG	F	INIT	Metals	Strontium	Sr	158	1.1	LANL Reg BG LVL	157	1.0	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C2	59	68	04/18/2002	2.14	5.95	2.34	67	Mortandad Canyon	Regional Top	R-13	958.3	11/13/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	2.79	1.2	LANL Reg BG LVL	2.7	1.0	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C2	20	24	12/16/2010	1.75	3.82	1.885	24	Mortandad Canyon	Regional Top	R-60	1330.0	11/16/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	3.82	2.0	LANL Reg BG LVL	2.7	1.4	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C2	20	24	12/16/2010	1.84	5.77	2.09	24	Mortandad Canyon	Regional Top	R-60	1330.0	11/16/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	5.77	2.8	LANL Reg BG LVL	4.59	1.3	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C3	21	24	06/27/2000	1.6	5.03	3.325	10	Lower Los Alamos Canyon	Alluvial	LLAO-4	5.2	09/03/2020	REG	F	INIT	Metals	Arsenic	As	5.03	1.5	NM GW STD	10	0.5	2.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	

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C3	2	2	08/04/2020	0.373	0.373	0.373	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.373	1.0	NMED A1 TAP SCRNLVL	0.12	3.1	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C3	2	2	08/04/2020	0.589	0.589	0.589	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Benzo(b)fluoranthene	205-99-2	0.589	1.0	NMED A1 TAP SCRNLVL	0.343	1.7	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
C4	60	80	06/15/2005	30.1	48.2	39.75	80	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Metals	Barium	Ba	38.0	1.0	LANL Int BG LVL	13.5	2.8	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	60	80	06/15/2005	42.8	75.5	62.65	80	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Metals	Calcium	Ca	59.5	0.9	LANL Int BG LVL	10.7	5.6	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	61	81	06/15/2005	21.2	64.8	53.5	81	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	46.5	0.9	LANL Int BG LVL	3.11	15.0	0.670	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	61	81	06/15/2005	0.412	0.668	0.525	78	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.502	1.0	LANL Int BG LVL	0.234	2.1	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	60	80	06/15/2005	142	253	209.5	80	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Hardness	Hardness	197	0.9	LANL Int BG LVL	37.8	5.2	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	60	80	06/15/2005	8.49	15.7	12.85	80	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Metals	Magnesium	Mg	11.8	0.9	LANL Int BG LVL	3.14	3.8	0.11	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	60	80	06/15/2005	2.9	41.8	22.55	80	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Metals	Nickel	Ni	25.0	1.1	LANL Int BG LVL	3.65	6.8	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	61	81	06/15/2005	7.62	20.4	10.7	81	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	11.9	1.1	LANL Int BG LVL	0.459	25.9	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	61	81	06/15/2005	56.3	246	82.9	81	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	97.9	1.2	LANL Int BG LVL	0.27	362.6	5.00	µg/L	100		NQ	NQ	SW-846:6850	GELC	

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C4	60	80	06/15/2005	196	339	275.5	80	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Metals	Strontium	Sr	272	1.0	LANL Int BG LVL	59.6	4.6	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	60	80	06/15/2005	34.7	77.6	59.2	80	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	46.8	0.8	LANL Int BG LVL	7.1	6.6	1.33	mg/L	10.0		NQ	NQ	EPA:300.0	GELC	
C4	36	37	01/11/2007	29.9	51.3	37	37	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Barium	Ba	36.5	1.0	LANL Int BG LVL	13.5	2.7	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	36	37	01/11/2007	47.1	87.6	68.1	37	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Calcium	Ca	54.9	0.8	LANL Int BG LVL	10.7	5.1	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	36	37	01/11/2007	148	270	212	37	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Geninorg	Hardness	Hardness	172	0.8	LANL Int BG LVL	37.8	4.6	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	36	37	01/11/2007	7.47	13	10.2	37	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Magnesium	Mg	8.48	0.8	LANL Int BG LVL	3.14	2.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	36	37	01/11/2007	44.9	97	73.6	37	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Molybdenum	Mo	63.3	0.9	LANL Int BG LVL	2.9	21.8	0.200	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	38	41	01/11/2007	0.247	4.99	2.12	41	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.49	0.7	LANL Int BG LVL	0.459	3.2	0.0850	mg/L	5.00		J-	l6a	EPA:353.2	GELC	
C4	38	40	01/11/2007	0.595	1.58	0.8985	40	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	0.595	0.7	LANL Int BG LVL	0.27	2.2	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	36	37	01/11/2007	50.7	65.1	57.5	37	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Sodium	Na	62.4	1.1	LANL Int BG LVL	18.2	3.4	0.1	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	36	37	01/11/2007	211	383	304	37	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Strontium	Sr	242	0.8	LANL Int BG LVL	59.6	4.1	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	47	59	10/21/2008	53.4	93	67.8	59	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	74.4	1.1	LANL Int BG LVL	3.11	23.9	1.34	mg/L	20.0		NQ	NQ	EPA:300.0	GELC	
C4	47	61	10/21/2008	14	19.6	16.6	61	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Metals	Nickel	Ni	14.4	0.9	LANL Int BG LVL	3.65	3.9	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	47	59	10/21/2008	2.89	5.1	4.11	59	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.39	0.8	LANL Int BG LVL	0.459	7.4	0.170	mg/L	10.0		J-	l6a	EPA:353.2	GELC	
C4	47	59	10/21/2008	0.83	1.12	0.954	59	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	0.874	0.9	LANL Int BG LVL	0.27	3.2	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	47	59	10/21/2008	77.9	103	88.7	59	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	81.4	0.9	LANL Int BG LVL	7.1	11.5	2.66	mg/L	20.0		NQ	NQ	EPA:300.0	GELC	
C4	47	61	10/21/2008	1.2	2.56	1.84	61	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Metals	Uranium	U	2.26	1.2	LANL Int BG LVL	0.992	2.3	0.0670	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	



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C4	11	13	04/26/2007	37.4	45.8	40.9	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Metals	Barium	Ba	40.6	1.0	LANL Int BG LVL	13.5	3.0	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	11	13	04/26/2007	33.2	36.4	34.1	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Metals	Calcium	Ca	34.1	1.0	LANL Int BG LVL	10.7	3.2	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	11	13	04/26/2007	17.5	19.7	19	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	18.2	1.0	LANL Int BG LVL	3.11	5.9	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	11	13	04/26/2007	0.768	0.961	0.87	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.915	1.1	LANL Int BG LVL	0.234	3.9	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	11	13	04/26/2007	117	129	121	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Geninorg	Hardness	Hardness	120	1.0	LANL Int BG LVL	37.8	3.2	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	11	13	04/26/2007	8.15	9.18	8.54	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Metals	Magnesium	Mg	8.54	1.0	LANL Int BG LVL	3.14	2.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	11	13	04/26/2007	2.8	3.61	2.96	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.05	1.0	LANL Int BG LVL	0.459	6.6	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	11	13	04/26/2007	1.43	2.05	1.62	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	2.05	1.3	LANL Int BG LVL	0.27	7.6	0.100	µg/L	2.00		NQ	NQ	SW-846:6850	GELC	
C4	11	13	04/26/2007	161	193	181	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Metals	Strontium	Sr	185	1.0	LANL Int BG LVL	59.6	3.1	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	11	13	04/26/2007	32.4	37.6	34.8	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	33.7	1.0	LANL Int BG LVL	7.1	4.7	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	19	22	08/08/2011	39.8	54.1	43.65	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Metals	Barium	Ba	45.2	1.0	LANL Int BG LVL	13.5	3.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	19	22	08/08/2011	24	31	28.65	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Metals	Calcium	Ca	30.4	1.1	LANL Int BG LVL	10.7	2.8	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	19	22	08/08/2011	15.5	32.4	16.75	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	16.3	1.0	LANL Int BG LVL	3.11	5.2	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	19	22	08/08/2011	0.422	0.693	0.486	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.516	1.1	LANL Int BG LVL	0.234	2.2	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	19	22	08/08/2011	87.6	113	104	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Geninorg	Hardness	Hardness	111	1.1	LANL Int BG LVL	37.8	2.9	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	19	22	08/08/2011	6.73	8.59	7.93	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Metals	Magnesium	Mg	8.41	1.1	LANL Int BG LVL	3.14	2.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	18	21	08/08/2011	2.67	4.35	3.57	21	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.77	1.1	LANL Int BG LVL	0.459	8.2	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	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 OC 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	19	22	08/08/2011	3.41	6.68	5.675	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	6.38	1.1	LANL Int BG LVL	0.27	23.6	0.250	µg/L	5.00		NQ	NQ	SW-846:6850	GELC	
C4	19	22	08/08/2011	122	153	139	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Metals	Strontium	Sr	153	1.1	LANL Int BG LVL	59.6	2.6	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	19	22	08/08/2011	18.7	21.8	21.1	22	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	09/09/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	21.4	1.0	LANL Int BG LVL	7.1	3.0	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	65	73	08/30/2007	68	408	346	73	Sandia Canyon	Regional Deep	R-35a	1013.1	11/10/2020	REG	F	INIT	Metals	Barium	Ba	355	1.0	LANL Reg BG LVL	38.1	9.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	64	73	08/30/2007	5.97	7.31	6.52	73	Sandia Canyon	Regional Deep	R-35a	1013.1	11/10/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.25	1.0	LANL Reg BG LVL	2.7	2.3	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	65	73	08/30/2007	1.2	22.2	7.59	72	Sandia Canyon	Regional Deep	R-35a	1013.1	11/10/2020	REG	F	INIT	Metals	Nickel	Ni	10.6	1.4	LANL Reg BG LVL	2.9	3.7	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	46	50	11/10/2008	3.37	7.55	4.715	50	Sandia Canyon	Regional Deep	R-43 S2	969.1	11/03/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.12	1.5	LANL Reg BG LVL	2.7	2.6	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	46	55	11/10/2008	1.8	49.1	9.25	45	Sandia Canyon	Regional Deep	R-43 S2	969.1	11/03/2020	REG	F	INIT	Metals	Chromium	Cr	49.1	5.3	LANL Reg BG LVL	7.48	6.6	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	46	49	11/10/2008	0.389	5.4	3.08	49	Sandia Canyon	Regional Deep	R-43 S2	969.1	11/03/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.92	1.3	LANL Reg BG LVL	0.769	5.1	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	46	50	11/10/2008	0.411	0.953	0.7465	50	Sandia Canyon	Regional Deep	R-43 S2	969.1	11/03/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	0.941	1.3	LANL Reg BG LVL	0.414	2.3	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	46	50	11/10/2008	3.96	11	6.945	50	Sandia Canyon	Regional Deep	R-43 S2	969.1	11/03/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	10.5	1.5	LANL Reg BG LVL	4.59	2.3	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	64	68	03/05/2009	2.74	6.18	4.39	68	Mortandad Canyon	Regional Deep	R-45 S2	974.9	11/19/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.06	1.4	LANL Reg BG LVL	2.7	2.2	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	64	73	03/05/2009	6.1	49.9	22.5	72	Mortandad Canyon	Regional Deep	R-45 S2	974.9	11/19/2020	REG	F	INIT	Metals	Chromium	Cr	49.9	2.2	LANL Reg BG LVL	7.48	6.7	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	5	6	08/04/2020	32.2	36.1	33.2	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	12/03/2020	REG	F	INIT	Metals	Calcium	Ca	32.2	1.0	LANL Reg BG LVL	17.03	1.9	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	5	6	08/04/2020	32.2	36.1	33.2	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	11/09/2020	REG	F	INIT	Metals	Calcium	Ca	36.1	1.1	LANL Reg BG LVL	17.03	2.1	0.05	mg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
C4	4	5	08/04/2020	18	19.3	19	5	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	11/09/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	18.0	0.9	LANL Reg BG LVL	2.7	6.7	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	5	6	08/04/2020	250	272	264	6	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	12/03/2020	REG	F	INIT	Metals	Chromium	Cr	250	0.9	LANL Reg BG LVL	7.48	33.4	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	

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C4	5	6	08/04/2020	250	272	264	6	Mortadad Canyon	Regional Deep	R-70 S2	1048.0	11/09/2020	REG	F	INIT	Metals	Chromium	Cr	256	1.0	LANL Reg BG LVL	7.48	34.2	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	5	08/04/2020	3.79	4.01	3.92	5	Mortadad Canyon	Regional Deep	R-70 S2	1048.0	11/09/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.88	1.0	LANL Reg BG LVL	0.769	5.0	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	4	5	08/04/2020	30.1	32.6	32.1	5	Mortadad Canyon	Regional Deep	R-70 S2	1048.0	11/09/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	31.2	1.0	LANL Reg BG LVL	4.59	6.8	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	77	92	05/17/2005	2.27	7.43	5.41	92	Sandia Canyon	Regional Top	R-11	855.0	11/03/2020	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.45	1.0	LANL Reg BG LVL	0.769	7.1	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	77	92	05/17/2005	2.27	7.43	5.41	92	Sandia Canyon	Regional Top	R-11	855.0	11/03/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.60	1.0	LANL Reg BG LVL	0.769	7.3	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	77	92	05/17/2005	5.95	20.2	10.2	92	Sandia Canyon	Regional Top	R-11	855.0	11/03/2020	FD	F	INIT	Geninorg	Sulfate	SO4(-2)	9.43	0.9	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	77	92	05/17/2005	5.95	20.2	10.2	92	Sandia Canyon	Regional Top	R-11	855.0	11/03/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	9.35	0.9	LANL Reg BG LVL	4.59	2.0	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	58	68	02/24/2000	1.35	3.31	2.15	68	Mortadad Canyon	Regional Top	R-15	958.6	11/16/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.90	0.9	LANL Reg BG LVL	0.769	2.5	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	54	63	05/25/2005	5.34	12.3	7.76	63	Mortadad Canyon	Regional Top	R-15	958.6	11/16/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	10.8	1.4	LANL Reg BG LVL	0.414	26.1	0.500	µg/L	10.0		NQ	NQ	SW-846:6850	GELC	
C4	46	53	03/12/2008	4.05	6.83	6.05	53	Sandia Canyon	Regional Top	R-36	766.9	11/10/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	5.98	1.0	LANL Reg BG LVL	2.7	2.2	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	46	54	03/12/2008	1.25	6.8	2.415	54	Sandia Canyon	Regional Top	R-36	766.9	11/10/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.46	1.0	LANL Reg BG LVL	0.769	3.2	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	45	52	03/12/2008	0.845	1.74	1.51	52	Sandia Canyon	Regional Top	R-36	766.9	11/10/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	1.31	0.9	LANL Reg BG LVL	0.414	3.2	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	47	54	11/05/2008	3.6	9.39	7.815	54	Sandia Canyon	Regional Top	R-43 S1	903.9	11/19/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.98	1.0	LANL Reg BG LVL	2.7	3.0	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	47	59	11/05/2008	2.35	223	92.4	56	Sandia Canyon	Regional Top	R-43 S1	903.9	11/19/2020	REG	F	INIT	Metals	Chromium	Cr	202	2.2	LANL Reg BG LVL	7.48	27.0	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	47	53	11/05/2008	4.67	6.15	5.37	52	Sandia Canyon	Regional Top	R-43 S1	903.9	11/19/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.31	1.0	LANL Reg BG LVL	0.769	6.9	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	47	54	11/05/2008	8.77	21	16.2	54	Sandia Canyon	Regional Top	R-43 S1	903.9	11/19/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	16.7	1.0	LANL Reg BG LVL	4.59	3.6	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	67	70	02/17/2009	1.99	20.3	2.44	70	Mortadad Canyon	Regional Top	R-44 S1	895.0	11/17/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	18.8	7.7	LANL Reg BG LVL	2.7	7.0	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	

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C4	67	70	02/17/2009	0.536	109	7.64	43	Mortandad Canyon	Regional Top	R-44 S1	895.0	11/17/2020	REG	F	INIT	Metals	Nickel	Ni	31.7	4.1	LANL Reg BG LVL	2.9	10.9	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	67	70	02/17/2009	0.123	2.66	1.19	69	Mortandad Canyon	Regional Top	R-44 S1	895.0	11/17/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.23	1.9	LANL Reg BG LVL	0.769	2.9	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	67	70	02/17/2009	2.76	19.9	3.55	70	Mortandad Canyon	Regional Top	R-44 S1	895.0	11/17/2020	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	65	70	02/28/2009	3	16.6	5.105	70	Mortandad Canyon	Regional Top	R-45 S1	880.0	11/19/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	13.8	2.7	LANL Reg BG LVL	2.7	5.1	0.134	mg/L	2.00		NQ	NQ	EPA:300.0	GELC	
C4	65	74	02/28/2009	8.4	50.7	31.2	74	Mortandad Canyon	Regional Top	R-45 S1	880.0	11/19/2020	REG	F	INIT	Metals	Chromium	Cr	15.0	0.5	LANL Reg BG LVL	7.48	2.0	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	65	70	02/28/2009	0.256	3.47	2.785	70	Mortandad Canyon	Regional Top	R-45 S1	880.0	11/19/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.87	1.0	LANL Reg BG LVL	0.769	3.7	0.0850	mg/L	5.00		NQ	NQ	EPA:353.2	GELC	
C4	65	70	02/28/2009	4.1	17.2	7.705	70	Mortandad Canyon	Regional Top	R-45 S1	880.0	11/19/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	14.8	1.9	LANL Reg BG LVL	4.59	3.2	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	67	75	03/06/2010	4.68	20	9.46	75	Mortandad Canyon	Regional Top	R-50 S1	1077.0	11/13/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	18.3	1.9	LANL Reg BG LVL	2.7	6.8	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	67	77	03/06/2010	26.3	150	87.4	77	Mortandad Canyon	Regional Top	R-50 S1	1077.0	11/13/2020	REG	F	INIT	Metals	Chromium	Cr	29.7	0.3	LANL Reg BG LVL	7.48	4.0	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	67	75	03/06/2010	1.51	14.6	4.57	75	Mortandad Canyon	Regional Top	R-50 S1	1077.0	11/13/2020	REG	F	INIT	Metals	Nickel	Ni	6.70	1.5	LANL Reg BG LVL	2.9	2.3	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	67	76	03/06/2010	0.398	2.94	2.05	76	Mortandad Canyon	Regional Top	R-50 S1	1077.0	11/13/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.28	1.1	LANL Reg BG LVL	0.769	3.0	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	67	75	03/06/2010	7.22	20.2	14	75	Mortandad Canyon	Regional Top	R-50 S1	1077.0	11/13/2020	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	51	58	05/20/2011	2.03	39.1	21.4	57	Mortandad Canyon	Regional Top	R-61 S1	1125.0	11/04/2020	REG	F	INIT	Metals	Chromium	Cr	35.6	1.7	LANL Reg BG LVL	7.48	4.8	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	51	58	05/20/2011	0.427	2.95	2.175	58	Mortandad Canyon	Regional Top	R-61 S1	1125.0	11/04/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.42	1.1	LANL Reg BG LVL	0.769	3.1	0.170	mg/L	10.0	J-	l6a	EPA:353.2	GELC		
C4	50	57	05/20/2011	2.96	16.2	11.8	57	Mortandad Canyon	Regional Top	R-61 S1	1125.0	11/04/2020	REG	F	DL	Geninorg	Perchlorate	ClO4	12.5	1.1	LANL Reg BG LVL	0.414	30.2	0.500	µg/L	10.0		NQ	NQ	SW-846:6850	GELC	
C4	31	37	03/26/2012	1.64	19	9.58	37	Sandia Canyon	Regional Top	R-62	1158.4	11/06/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	19.0	2.0	LANL Reg BG LVL	2.7	7.0	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	31	37	03/26/2012	104	346	183	37	Sandia Canyon	Regional Top	R-62	1158.4	11/06/2020	REG	F	INIT	Metals	Chromium	Cr	346	1.9	LANL Reg BG LVL	7.48	46.3	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	

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C4	31	37	03/26/2012	0.0685	2.25	1.36	37	Sandia Canyon	Regional Top	R-62	1158.4	11/06/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.14	1.6	LANL Reg BG LVL	0.769	2.8	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	31	37	03/26/2012	0.719	0.937	0.809	37	Sandia Canyon	Regional Top	R-62	1158.4	11/06/2020	REG	F	INIT	Geninorg	Perchlorate	ClO4	0.880	1.1	LANL Reg BG LVL	0.414	2.1	0.0500	µg/L	1.00		NQ	NQ	SW-846:6850	GELC	
C4	31	37	03/26/2012	2.56	33.4	17	37	Sandia Canyon	Regional Top	R-62	1158.4	11/06/2020	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	33.4	2.0	LANL Reg BG LVL	4.59	7.3	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	4	4	08/04/2020	5.78	7.28	6	4	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	F	INIT	Geninorg	Chloride	Cl(-1)	5.92	1.0	LANL Reg BG LVL	2.7	2.2	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	5	5	08/04/2020	13.5	30.5	19.25	5	Mortandad Canyon	Regional Top	R-70 S1	963.0	12/03/2020	REG	F	INIT	Metals	Chromium	Cr	26.5	1.4	LANL Reg BG LVL	7.48	3.5	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	5	5	08/04/2020	13.5	30.5	19.25	5	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	F	INIT	Metals	Chromium	Cr	18.7	1.0	LANL Reg BG LVL	7.48	2.5	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	4	4	08/04/2020	2.57	2.82	2.73	4	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.68	1.0	LANL Reg BG LVL	0.769	3.5	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C5	46	55	11/10/2008	1.8	49.1	9.25	45	Sandia Canyon	Regional Deep	R-43 S2	969.1	11/03/2020	REG	F	INIT	Metals	Chromium	Cr	49.1	5.3	NM GW STD	50	1.0	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C5	64	73	03/05/2009	6.1	49.9	22.5	72	Mortandad Canyon	Regional Deep	R-45 S2	974.9	11/19/2020	REG	F	INIT	Metals	Chromium	Cr	49.9	2.2	NM GW STD	50	1.0	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
CA	2	2	08/04/2020	0.373	0.373	0.373	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.373	1.0	NMED A1 TAP SCRNLVL	0.12	3.1	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.
CA	2	2	08/04/2020	0.589	0.589	0.589	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	UF	INIT	SVOC	Benzo(b)fluoranthene	205-99-2	0.589	1.0	NMED A1 TAP SCRNLVL	0.343	1.7	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270D	GELC	Analytical history only includes one previous sample on 8/4/2020 which resulted in a nondetect (<0.30 µg/L). * Reanalysis of sample extract provided similar results as initial analysis discounting potential of analytical machine holdover. * Potential laboratory or sample contamination. * Monitoring of analyte will continue.

Table 2: NMED 12-20 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 OC 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	6	08/04/2020	6.26	17.3	11.78	2	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	12/03/2020	REG	F	INIT	Metals	Tin	Sn	17.3	1.5	Reg-Scr_95	13	1.3	2.50	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
XC2scr	5	5	08/04/2020	2.18	3.14	2.66	3	Mortandad Canyon	Regional Top	R-70 S1	963.0	12/03/2020	REG	F	INIT	Metals	Arsenic	As	2.91	1.1	Reg-Scr_95	2.7	1.1	2.00	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC2scr	5	5	08/04/2020	2.18	3.14	2.66	3	Mortandad Canyon	Regional Top	R-70 S1	963.0	11/09/2020	REG	F	INIT	Metals	Arsenic	As	3.14	1.2	Reg-Scr_95	2.7	1.2	2.00	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC4scr	60	80	06/15/2005	0.212	0.703	0.57	77	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.459	0.8	Int-Scr_95	0.0716	6.4	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	60	83	06/15/2005	29.4	86.6	61	83	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Metals	Chromium	Cr	60.1	1.0	Int-Scr_95	2.72	22.1	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	61	81	06/15/2005	298	527	403	81	Mortandad Canyon	Intermediate Perched	MCOI-6	686.0	11/09/2020	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	369	0.9	Int-Scr_95	135	2.7	3.40	mg/L	1.00		J+	I4a	EPA:160.1	GELC	
XC4scr	36	37	01/11/2007	40.8	99.4	82.6	36	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Boron	B	89.0	1.1	Int-Scr_95	16.2	5.5	15.0	µg/L	1.00		NQ	NQ	SW-846:6010C	GELC	
XC4scr	36	39	01/11/2007	7.99	22.1	12.15	38	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Metals	Chromium	Cr	12.8	1.1	Int-Scr_95	2.72	4.7	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	38	41	01/11/2007	357	536	480	41	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	444	0.9	Int-Scr_95	135	3.3	3.40	mg/L	1.00		NQ	NQ	EPA:160.1	GELC	
XC4scr	36	37	01/11/2007	0.404	1.45	0.9055	36	Sandia Canyon	Intermediate Perched	SCI-1	358.4	11/04/2020	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	1.27	1.4	Int-Scr_95	0.178	7.1	0.0200	mg/L	1.00		NQ	NQ	EPA:365.4	GELC	
XC4scr	47	59	10/21/2008	0.194	0.846	0.6325	58	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.735	1.2	Int-Scr_95	0.0716	10.3	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	47	66	10/21/2008	244	658	435.5	66	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Metals	Chromium	Cr	244	0.6	Int-Scr_95	2.72	89.7	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
XC4scr	32	38	08/04/2009	0.00374	0.00983	0.00657	38	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	UF	INIT	Inorganic	Cyanide (Total)	CN (Total)	0.00374	0.6	Int-Scr_95	0.0017	2.2	0.00167	mg/L	1.00	J	J	J_LAB	EPA:335.4	GELC	
XC4scr	47	60	10/21/2008	354	796	427.5	60	Sandia Canyon	Intermediate Perched	SCI-2	548.0	11/04/2020	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	496	1.2	Int-Scr_95	135	3.7	3.40	mg/L	1.00		NQ	NQ	EPA:160.1	GELC	
XC4scr	11	13	04/26/2007	0.253	0.34	0.2795	12	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.294	1.1	Int-Scr_95	0.0716	4.1	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	11	13	04/26/2007	3.04	4.6	3.5	13	Lower Los Alamos Canyon	Intermediate Spring	Los Alamos Spring	0	09/09/2020	REG	F	INIT	Metals	Selenium	Se	3.54	1.0	Int-Scr_95	1.5	2.4	2.00	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC4scr	65	73	08/30/2007	20.6	48.2	38.8	67	Sandia Canyon	Regional Deep	R-35a	1013.1	11/10/2020	REG	F	INIT	Metals	Boron	B	38.9	1.0	Reg-Scr_95	18.7	2.1	15.0	µg/L	1.00	J	J	J_LAB	SW-846:6010C	GELC	
XC4scr	67	70	02/17/2009	0.0757	0.158	0.144	25	Mortandad Canyon	Regional Top	R-44 S1	895.0	11/17/2020	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.144	1.0	Reg-Scr_95	0.067	2.1	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	25	32	03/11/2009	1.38	5.29	3.145	28	Mortandad Canyon	Regional Top	R-46	1340.0	11/17/2020	REG	F	INIT	Metals	Antimony	Sb	2.24	0.7	Reg-Scr_95	1	2.2	1.00	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC4scr	51	58	05/20/2011	0.0531	11.8	0.552	55	Mortandad Canyon	Regional Top	R-61 S1	1125.0	11/04/2020	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.297	0.5	Reg-Scr_95	0.0822	3.6	0.0200	mg/L	1.00		NQ	NQ	EPA:365.4	GELC	
XC4scr	31	37	03/26/2012	0.0706	0.202	0.1175	32	Sandia Canyon	Regional Top	R-62	1158.4	11/06/2020	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.155	1.3	Reg-Scr_95	0.067	2.3	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	