



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

EMLA-2021-0001-02-001

October 30, 2020

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 October 2020

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 October 15, 2020, to review groundwater data loaded or released in the Environmental Information Management System (EIM) in September 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." For comparison with EPA tap water standards, the standard's carcinogenic risk value was adjusted to 1×10^{-5} , as specified in the Consent Order.

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

1-Day Notification

There 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 October 16, 2020, and an email was sent the same day.

An unfiltered sample collected on August 1, 2020, from regional aquifer well R-29 was measured at 14.9 µg/L for Royal Demolition Explosive (RDX [hexahydro-1,3,5-trinitro-1,3,5-triazine]), above the 9.66-µg/L NMED tap water screening level specified in the June 2019 Table A-1 of “Risk Assessment Guidance for Site Investigations and Remediation.” This result is from the field duplicate of a regular sample. The results from the regular sample and field duplicate differed significantly. The regular sample result was a nondetection (<0.0842 µg/L). The analytical laboratory dilution of the field duplicate sample was by a factor of 5 in order to encompass the result within the laboratory’s instrument calibration range. The regular sample was diluted by a more typical dilution factor of 2. RDX has not been historically detected at this well. The 24 previous samples collected since May 10, 2010, were all nondetections. To confirm the presence or absence of this anomalous result for RDX at R-29, N3B is planning to resample the well in the near future on a schedule ahead of the current annual frequency in the Interim Facility-Wide Groundwater Monitoring Plan.

An unfiltered sample collected on August 18, 2020, from regional aquifer well MCO-7 was calculated at 82.0 ng/L for total per- and polyfluoroalkyl substances (PFAS), above the 70-ng/L NMED tap water screening level specified in the June 2019 Table A-1 of “Risk Assessment Guidance for Site Investigations and Remediation.” The total PFAS result is the value of the summation of measured results for perfluorohexanesulfonic acid, perfluorooctanesulfonic acid, and perfluorooctanoic acid.

15-Day Notification

The required information for the 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 Duran

Digitally signed by Arturo
Duran
Date: 2020.10.27
17:00:56 -06'00'

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

Enclosures:

1. Summary of Groundwater Data Reviewed in October 2020 That Meet Notification Requirements (EM2020-0579)

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
Jacob Meadows, 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
Amanda White, N3B
Brinson Willis, N3B
Karen Armijo, NA-LA
Pete Maggiore, NA-LA
M. Lee Bishop, EM-LA
Arturo Duran, EM-LA
Stephen Hoffman, EM-LA
Kirk D. Lachman, EM-LA
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Cheryl Rodriguez, EM-LA
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Ben Underwood, EM-LA

emla.docs@em.doe.gov
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Public Reading Room (EPRR)
PRS website

Pamela T. Maestas

From: Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>
Sent: Monday, November 2, 2020 1:24 PM
To: Pamela T. Maestas
Subject: RE: Submittal to NMED on 10/30/2020 of Monthly GW Data Review for October

Received.

From: Pamela T. Maestas <pamela.maestas@em-la.doe.gov>
Sent: Monday, November 2, 2020 1:22 PM
To: Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>
Subject: [EXT] FW: Submittal to NMED on 10/30/2020 of Monthly GW Data Review for October

This one too please.
Thank you.

From: Pamela T. Maestas <pamela.maestas@em-la.doe.gov>
Sent: Friday, October 30, 2020 11:56 AM
To: Pierard, Kevin, NMENV <Kevin.Pierard@state.nm.us>
Cc: Dhawan, Neelam, NMENV <neelam.dhawan@state.nm.us>; Emily M. Day <Emily.Day@em-la.doe.gov>; Regulatory Documentation <RegDocs@EM-LA.DOE.GOV>; Martinez, Cynthia, NMENV <cynthia.martinez1@state.nm.us>; Hai Shen <hai.shen@em.doe.gov>; Brinson Willis <Brinson.Willis@em-la.doe.gov>; Danny Katzman <danny.katzman@em-la.doe.gov>
Subject: Submittal to NMED on 10/30/2020 of Monthly GW Data Review for October

Mr. Pierard,
Attached for submittal is a pdf of the following:

- Monthly Notification of Groundwater Data Reviewed in October 2020 (EMLA-2021-0001-02-001, 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



SUMMARY OF GROUNDWATER DATA REVIEWED IN OCTOBER 2020 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 2020 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 09-2020 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 09-2020 Groundwater Report Addendum, presents results that exceed the 95th percentile of those results in the data set defined in the "Groundwater Background Investigation Report, Revision 5." Only the contaminants and other chemical constituents that lack a calculated groundwater background value (i.e., the frequency of detections was too low to calculate a background value at the 95% upper tolerance level) are listed in this table. Table 2 is a voluntary submission by N3B to NMED to identify the potential risk resulting from contaminants and other chemical constituents that are without defined background values.

These tables include the following:

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

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

MDL—method detection limit

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

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.

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

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 9-20 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 | 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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|----------------------|----------|--------------|------------|------------------|---------------|----------------------|--------------------------|------------------------------|-----------|------------|---------------|---------------------|--------------|------------------|---------|---------|-----------------|---------------|--|
| C1 | 1 | 1 | 08/18/2020 | 13.7 | 13.7 | 13.7 | 1 | Mortandad Canyon | Alluvial | MCO-7 | 39.0 | 08/18/2020 | REG | UF | INIT | PFAS | Perfluorohexanesulfonic acid | 355-46-4 | 13.7 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.2 | 0.613 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/18/2020 | 46.3 | 46.3 | 46.3 | 1 | Mortandad Canyon | Alluvial | MCO-7 | 39.0 | 08/18/2020 | REG | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 46.3 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.7 | 0.743 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/18/2020 | 22 | 22 | 22 | 1 | Mortandad Canyon | Alluvial | MCO-7 | 39.0 | 08/18/2020 | REG | UF | INIT | PFAS | Perfluorooctanoic acid | 335-67-1 | 22.0 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.3 | 0.743 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/26/2020 | 0.000896 | 0.000896 | 0.000896 | 1 | Upper Los Alamos Canyon | Intermediate Perched | LAOI-7 | 240.0 | 08/26/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitrosodimethylamine[N-] | 62-75-9 | 0.000896 | 1.0 | NMED A1 TAP SCRNLVL | 0.00491 | 0.2 | 0.00036 | µg/L | 1.00 | | First measurement result using low MDL = 0.00036 µg/L method |
| C1 | 1 | 1 | 08/26/2020 | 0.0017 | 0.0017 | 0.0017 | 1 | Upper Los Alamos Canyon | Intermediate Perched | LAOI-7 | 240.0 | 08/26/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.0017 | 1.0 | NMED A1 TAP SCRNLVL | 0.0273 | 0.1 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method |
| C1 | 1 | 1 | 08/26/2020 | 24 | 24 | 24 | 1 | Upper Los Alamos Canyon | Intermediate Perched | LAOI-7 | 240.0 | 08/26/2020 | REG | UF | INIT | PFAS | Perfluorohexanesulfonic acid | 355-46-4 | 24.0 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.3 | 0.583 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/26/2020 | 3.66 | 3.66 | 3.66 | 1 | Upper Los Alamos Canyon | Intermediate Perched | LAOI-7 | 240.0 | 08/26/2020 | REG | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 3.66 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.706 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/26/2020 | 2.45 | 2.45 | 2.45 | 1 | Upper Los Alamos Canyon | Intermediate Perched | LAOI-7 | 240.0 | 08/26/2020 | REG | UF | INIT | PFAS | Perfluorooctanoic acid | 335-67-1 | 2.45 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.0 | 0.706 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/07/2020 | 7.12 | 7.12 | 7.12 | 1 | Sandia Canyon | Intermediate Perched | R-12 S1 | 459.0 | 08/07/2020 | REG | UF | INIT | PFAS | Perfluorohexanesulfonic acid | 355-46-4 | 7.12 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.571 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/07/2020 | 6.03 | 6.03 | 6.03 | 1 | Sandia Canyon | Intermediate Perched | R-12 S1 | 459.0 | 08/07/2020 | REG | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 6.03 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.693 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 1 | 08/07/2020 | 3.89 | 3.89 | 3.89 | 1 | Sandia Canyon | Intermediate Perched | R-12 S1 | 459.0 | 08/07/2020 | REG | UF | INIT | PFAS | Perfluorooctanoic acid | 335-67-1 | 3.89 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.693 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 2 | 08/07/2020 | 0.167 | 0.17 | 0.1685 | 2 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | FD | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 0.170 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.0 | 0.100 | µg/L | 1.00 | J | First measurement using low MDL = 0.1 µg/L method. |
| C1 | 1 | 2 | 08/07/2020 | 0.167 | 0.17 | 0.1685 | 2 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | REG | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 0.167 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.0 | 0.100 | µg/L | 1.00 | J | First measurement using low MDL = 0.1 µg/L method |
| C1 | 1 | 2 | 08/07/2020 | 4.74 | 5.3 | 5.02 | 2 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | FD | UF | INIT | PFAS | Perfluorohexanesulfonic acid | 355-46-4 | 5.30 | 1.1 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.590 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 2 | 08/07/2020 | 4.74 | 5.3 | 5.02 | 2 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | REG | UF | INIT | PFAS | Perfluorohexanesulfonic acid | 355-46-4 | 4.74 | 0.9 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.586 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 2 | 08/07/2020 | 1.14 | 1.49 | 1.315 | 2 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | FD | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 1.49 | 1.1 | NMED A1 TAP SCRNLVL | 70 | 0.0 | 0.716 | ng/L | 1.00 | J | First sampling for PFAS |
| C1 | 1 | 2 | 08/07/2020 | 1.14 | 1.49 | 1.315 | 2 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | REG | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 1.14 | 0.9 | NMED A1 TAP SCRNLVL | 70 | 0.0 | 0.710 | ng/L | 1.00 | J | First sampling for PFAS |
| C1 | 22 | 28 | 08/24/2005 | 10.3 | 10.3 | 10.3 | 1 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | UF | INIT | SVOC | Benzoic acid | 65-85-0 | 10.3 | 1.0 | EPA TAP SCRNLVL | 75000 | 0.0 | 6.03 | µg/L | 1.00 | J | |

Table 1: NMED 9-20 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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|----------------------|----------|--------------|------------|------------------|---------------|----------------------|--------------------------|------------------------------|-----------|------------|---------------|---------------------|--------------|------------------|---------|---------|-----------------|---------------|---|
| C1 | 1 | 1 | 08/25/2020 | 2.75 | 2.75 | 2.75 | 1 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 2.75 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.6 | 0.100 | µg/L | 1.00 | | First measurement using low MDL = 0.1 µg/L method |
| C1 | 1 | 1 | 08/25/2020 | 0.000365 | 0.000365 | 0.000365 | 1 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitrosodimethylamine[N-] | 62-75-9 | 0.000365 | 1.0 | NMED A1 TAP SCRNLVL | 0.00491 | 0.1 | 0.00036 | µg/L | 1.00 | J | First measurement using low MDL = 0.00036 µg/L method |
| C1 | 1 | 1 | 08/25/2020 | 0.000549 | 0.000549 | 0.000549 | 1 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.000549 | 1.0 | NMED A1 TAP SCRNLVL | 0.0273 | 0.0 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method |
| C1 | 14 | 18 | 08/23/2005 | 9.31 | 9.33 | 9.32 | 2 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | FD | UF | INIT | SVOC | Benzoic acid | 65-85-0 | 9.31 | 1.0 | EPA TAP SCRNLVL | 75000 | 0.0 | 5.93 | µg/L | 1.00 | J | |
| C1 | 14 | 18 | 08/23/2005 | 9.31 | 9.33 | 9.32 | 2 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | REG | UF | INIT | SVOC | Benzoic acid | 65-85-0 | 9.33 | 1.0 | EPA TAP SCRNLVL | 75000 | 0.0 | 5.89 | µg/L | 1.00 | J | |
| C1 | 1 | 2 | 08/25/2020 | 0.000446 | 0.000446 | 0.000446 | 1 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitrosodimethylamine[N-] | 62-75-9 | 0.000446 | 1.0 | NMED A1 TAP SCRNLVL | 0.00491 | 0.1 | 0.00036 | µg/L | 1.00 | J | First measurement using low MDL = 0.00036 µg/L method. Regular sample was not detected using the same low MDL method. |
| C1 | 1 | 2 | 08/25/2020 | 0.000481 | 0.000694 | 0.0005875 | 2 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.000481 | 0.8 | NMED A1 TAP SCRNLVL | 0.0273 | 0.0 | 0.00047 | µg/L | 1.00 | J | First measurement using low MDL = 0.00047 µg/L method |
| C1 | 1 | 2 | 08/25/2020 | 0.000481 | 0.000694 | 0.0005875 | 2 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.000694 | 1.2 | NMED A1 TAP SCRNLVL | 0.0273 | 0.0 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method |
| C1 | 1 | 2 | 08/25/2020 | 0.842 | 0.842 | 0.842 | 1 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | FD | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 0.842 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.0 | 0.705 | ng/L | 1.00 | J | First sampling for PFAS |
| C1 | 15 | 20 | 03/19/2004 | 11.6 | 21.1 | 19.9 | 3 | Mortandad Canyon | Regional Deep | R-16 S4 | 1237.0 | 08/19/2020 | REG | UF | INIT | SVOC | Benzoic acid | 65-85-0 | 11.6 | 0.6 | EPA TAP SCRNLVL | 75000 | 0.0 | 5.81 | µg/L | 1.00 | J | |
| C1 | 15 | 20 | 03/19/2004 | 0.426 | 0.426 | 0.426 | 1 | Mortandad Canyon | Regional Deep | R-16 S4 | 1237.0 | 08/19/2020 | REG | UF | INIT | SVOC | Bis(2-ethylhexyl)phthalate | 117-81-7 | 0.426 | 1.0 | EPA MCL | 6 | 0.1 | 0.290 | µg/L | 1.00 | J | Analyte is commonly associated with downhole equipment. A potential laboratory contaminant. |
| C1 | 1 | 2 | 08/19/2020 | 0.000515 | 0.000515 | 0.000515 | 1 | Mortandad Canyon | Regional Deep | R-16 S4 | 1237.0 | 08/19/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.000515 | 1.0 | NMED A1 TAP SCRNLVL | 0.0273 | 0.0 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method. Regular sample was not detected using the same low MDL method. |
| C1 | 12 | 13 | 04/26/2005 | 0.33 | 0.425 | 0.3775 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | FD | UF | INIT | SVOC | Bis(2-ethylhexyl)phthalate | 117-81-7 | 0.330 | 0.9 | EPA MCL | 6 | 0.1 | 0.300 | µg/L | 1.00 | J | Analyte is commonly associated with downhole equipment. A potential laboratory contaminant. |
| C1 | 12 | 13 | 04/26/2005 | 0.33 | 0.425 | 0.3775 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | REG | UF | INIT | SVOC | Bis(2-ethylhexyl)phthalate | 117-81-7 | 0.425 | 1.1 | EPA MCL | 6 | 0.1 | 0.297 | µg/L | 1.00 | J | Analyte is commonly associated with downhole equipment. A potential laboratory contaminant. |
| C1 | 1 | 2 | 08/31/2020 | 0.000381 | 0.000426 | 0.0004035 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitrosodimethylamine[N-] | 62-75-9 | 0.000381 | 0.9 | NMED A1 TAP SCRNLVL | 0.00491 | 0.1 | 0.00036 | µg/L | 1.00 | J | First measurement using low MDL = 0.00036 µg/L method |
| C1 | 1 | 2 | 08/31/2020 | 0.000381 | 0.000426 | 0.0004035 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitrosodimethylamine[N-] | 62-75-9 | 0.000426 | 1.1 | NMED A1 TAP SCRNLVL | 0.00491 | 0.1 | 0.00036 | µg/L | 1.00 | J | First measurement using low MDL = 0.00036 µg/L method |
| C1 | 1 | 2 | 08/31/2020 | 0.000873 | 0.00169 | 0.0012815 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.000873 | 0.7 | NMED A1 TAP SCRNLVL | 0.0273 | 0.0 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method |
| C1 | 1 | 2 | 08/31/2020 | 0.000873 | 0.00169 | 0.0012815 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.00169 | 1.3 | NMED A1 TAP SCRNLVL | 0.0273 | 0.1 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method |

Table 1: NMED 9-20 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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|--------------|----------|--------------|------------|------------------|---------------|----------------------|--------------------------|------------------------------|-----------|------------|---------------|---------------------|--------------|------------------|---------|---------|-----------------|---------------|---|
| C1 | 1 | 2 | 08/31/2020 | 0.872 | 0.902 | 0.887 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | FD | UF | INIT | PFAS | Perfluorohexanesulfonic acid | 355-46-4 | 0.872 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.0 | 0.588 | ng/L | 1.00 | J | First sampling for PFAS |
| C1 | 1 | 2 | 08/31/2020 | 0.872 | 0.902 | 0.887 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | REG | UF | INIT | PFAS | Perfluorohexanesulfonic acid | 355-46-4 | 0.902 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.0 | 0.660 | ng/L | 1.00 | J | First sampling for PFAS |
| C1 | 1 | 2 | 08/31/2020 | 6.98 | 8.3 | 7.64 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | FD | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 8.30 | 1.1 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.713 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 2 | 08/31/2020 | 6.98 | 8.3 | 7.64 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | REG | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 6.98 | 0.9 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.801 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 2 | 08/31/2020 | 6.25 | 6.88 | 6.565 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | FD | UF | INIT | PFAS | Perfluorooctanoic acid | 335-67-1 | 6.25 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.713 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 1 | 2 | 08/31/2020 | 6.25 | 6.88 | 6.565 | 2 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | REG | UF | INIT | PFAS | Perfluorooctanoic acid | 335-67-1 | 6.88 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.801 | ng/L | 1.00 | | First sampling for PFAS |
| C1 | 14 | 20 | 09/23/2010 | 14.9 | 14.9 | 14.9 | 1 | Water Canyon | Regional Top | R-29 | 1170.0 | 08/01/2020 | FD | UF | DL | HEXP | RDX | 121-82-4 | 14.9 | 1.0 | NMED A1 TAP SCRNLVL | 9.66 | 1.5 | 0.235 | µg/L | 5.00 | | This result is from the field duplicate (FD) of a regular (REG) sample collected on 8/1/2020. The results from the REG sample and FD differed significantly. The REG result was a nondetect (< 0.0842 µg/L). The FD lab dilution at 5x was greater than the typical 2x factor employed. In addition, RDX has not been historically detected at this well. The 24 previous samples collected since 05/10/2010 were all nondetects. |
| C1 | 1 | 2 | 08/03/2020 | 0.23 | 0.242 | 0.236 | 2 | Water Canyon | Regional Top | R-68 | 1340.0 | 08/03/2020 | FD | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 0.230 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.1 | 0.100 | µg/L | 1.00 | J | First measurement using low MDL = 0.1 µg/L method |
| C1 | 1 | 2 | 08/03/2020 | 0.23 | 0.242 | 0.236 | 2 | Water Canyon | Regional Top | R-68 | 1340.0 | 08/03/2020 | REG | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 0.242 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.1 | 0.100 | µg/L | 1.00 | J | First measurement using low MDL = 0.1 µg/L method |
| C1 | 18 | 22 | 02/28/2000 | 3.79 | 12 | 7.895 | 2 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | FD | UF | INIT | VOC | Acetone | 67-64-1 | 3.79 | 0.5 | NMED A1 TAP SCRNLVL | 14100 | 0.0 | 1.50 | µg/L | 1.00 | J | |
| C1 | 1 | 2 | 08/26/2020 | 0.000362 | 0.000422 | 0.000392 | 2 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitrosodimethylamine[N-] | 62-75-9 | 0.000362 | 0.9 | NMED A1 TAP SCRNLVL | 0.00491 | 0.1 | 0.00036 | µg/L | 1.00 | J | First measurement using low MDL = 0.00036 µg/L method |
| C1 | 1 | 2 | 08/26/2020 | 0.000362 | 0.000422 | 0.000392 | 2 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitrosodimethylamine[N-] | 62-75-9 | 0.000422 | 1.1 | NMED A1 TAP SCRNLVL | 0.00491 | 0.1 | 0.00036 | µg/L | 1.00 | J | First measurement using low MDL = 0.00036 µg/L method |
| C1 | 1 | 2 | 08/26/2020 | 0.000501 | 0.000664 | 0.0005825 | 2 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.000501 | 0.9 | NMED A1 TAP SCRNLVL | 0.0273 | 0.0 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method |
| C1 | 1 | 2 | 08/26/2020 | 0.000501 | 0.000664 | 0.0005825 | 2 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | REG | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-butylamine[N-] | 924-16-3 | 0.000664 | 1.1 | NMED A1 TAP SCRNLVL | 0.0273 | 0.0 | 0.00047 | µg/L | 1.00 | | First measurement using low MDL = 0.00047 µg/L method |
| C1 | 1 | 2 | 08/26/2020 | 0.0002 | 0.0002 | 0.0002 | 1 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | FD | UF | INIT | Low-level nitrosamines 1 | Nitroso-di-n-propylamine[N-] | 621-64-7 | 0.0002 | 1.0 | EPA TAP SCRNLVL | 0.11 | 0.0 | 0.00018 | µg/L | 1.00 | J | First measurement using low MDL = 0.00018 µg/L method. Regular sample was not detected using the same low MDL method. |
| C1 | 1 | 1 | 08/04/2020 | 0.38 | 0.38 | 0.38 | 1 | Mortandad Canyon | Regional | R-70 S1 | 963.0 | 08/04/2020 | REG | UF | INIT | SVOC | Bis(2-ethylhexyl)phthalate | 117-81-7 | 0.380 | 1.0 | EPA MCL | 6 | 0.1 | 0.300 | µg/L | 1.00 | J | Analyte is commonly associated with downhole equipment. A potential laboratory contaminant. |

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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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|----------------------|----------|--------------|------------|------------------|---------------|----------------------|-----------------------|------------------------------|-----------|------------|---------------|---------------------|--------------|------------------|---------|---------|-----------------|---------------|---|
| C1 | 1 | 1 | 08/04/2020 | 1.45 | 1.45 | 1.45 | 1 | Mortandad Canyon | Regional | R-70 S1 | 963.0 | 08/04/2020 | REG | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 1.45 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.0 | 0.710 | ng/L | 1.00 | J | First sampling for PFAS |
| C1 | 1 | 2 | 08/04/2020 | 0.294 | 0.295 | 0.2945 | 2 | Mortandad Canyon | Regional | R-70 S2 | 1048.0 | 08/04/2020 | FD | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 0.294 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.1 | 0.100 | µg/L | 1.00 | J | First measurement using low MDL = 0.1 µg/L method |
| C1 | 1 | 2 | 08/04/2020 | 0.294 | 0.295 | 0.2945 | 2 | Mortandad Canyon | Regional | R-70 S2 | 1048.0 | 08/04/2020 | REG | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 0.295 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.1 | 0.100 | µg/L | 1.00 | J | First measurement using low MDL = 0.1 µg/L method |
| C1 | 1 | 2 | 08/04/2020 | 4.88 | 4.88 | 4.88 | 1 | Mortandad Canyon | Regional | R-70 S2 | 1048.0 | 08/04/2020 | FD | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 4.88 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.1 | 0.719 | ng/L | 1.00 | | First sampling for PFAS |
| C2 | 17 | 20 | 06/13/2005 | 84.3 | 206 | 129 | 20 | Mortandad Canyon | Regional Deep | R-16 S2 | 863.4 | 08/19/2020 | REG | F | INIT | Geninorg | Total dissolved solids | TDS | 206 | 1.6 | LANL Reg BG LVL | 161 | 1.3 | 3.40 | mg/L | 1.00 | | |
| C2 | 64 | 68 | 03/11/2010 | 0.296 | 0.513 | 0.3295 | 68 | Mortandad Canyon | Regional Deep | R-50 S2 | 1185.0 | 08/14/2020 | REG | F | INIT | Geninorg | Perchlorate | CIO4 | 0.513 | 1.6 | LANL Reg BG LVL | 0.414 | 1.2 | 0.0500 | µg/L | 1.00 | | |
| C2 | 32 | 43 | 12/19/2005 | 100 | 201 | 129 | 43 | Mortandad Canyon | Regional Top | R-16r | 600.0 | 08/19/2020 | REG | F | INIT | Geninorg | Total dissolved solids | TDS | 201 | 1.6 | LANL Reg BG LVL | 161 | 1.2 | 3.40 | mg/L | 1.00 | | |
| C2 | 20 | 26 | 05/10/2010 | 0.129 | 0.382 | 0.22 | 26 | Water Canyon | Regional Top | R-29 | 1170.0 | 08/01/2020 | FD | F | INIT | Geninorg | Fluoride | F(-1) | 0.380 | 1.7 | LANL Reg BG LVL | 0.377 | 1.0 | 0.0330 | mg/L | 1.00 | | |
| C2 | 20 | 26 | 05/10/2010 | 0.129 | 0.382 | 0.22 | 26 | Water Canyon | Regional Top | R-29 | 1170.0 | 08/01/2020 | REG | F | INIT | Geninorg | Fluoride | F(-1) | 0.382 | 1.7 | LANL Reg BG LVL | 0.377 | 1.0 | 0.0330 | mg/L | 1.00 | | |
| C2 | 19 | 27 | 05/19/2010 | 0.142 | 0.403 | 0.219 | 27 | Water Canyon | Regional Top | R-30 | 1140.0 | 08/01/2020 | REG | F | INIT | Geninorg | Fluoride | F(-1) | 0.403 | 1.8 | LANL Reg BG LVL | 0.377 | 1.1 | 0.0330 | mg/L | 1.00 | | |
| C2 | 18 | 21 | 12/03/2015 | 54.8 | 67.8 | 60.4 | 21 | Sandia Canyon | Regional Top | R-67 | 1242.6 | 08/20/2020 | REG | F | INIT | Geninorg | Hardness | Hardness | 67.8 | 1.1 | LANL Reg BG LVL | 67.1 | 1.0 | 0.453 | mg/L | 1.00 | | |
| C2 | 39 | 43 | 10/23/2015 | 66 | 82.2 | 70.7 | 43 | Mortandad Canyon | Regional Top | SIMR-2 | 885.0 | 06/29/2020 | REG | F | INIT | Metals | Silicon dioxide | SiO2 | 82.2 | 1.2 | LANL Reg BG LVL | 81.9 | 1.0 | 0.053 | mg/L | 1.00 | | |
| C3 | 1 | 1 | 08/18/2020 | 46.3 | 46.3 | 46.3 | 1 | Mortandad Canyon | Alluvial | MCO-7 | 39.0 | 08/18/2020 | REG | UF | INIT | PFAS | Perfluorooctanesulfonic acid | 1763-23-1 | 46.3 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.7 | 0.743 | ng/L | 1.00 | | First sampling for PFAS |
| C3 | 1 | 1 | 08/25/2020 | 2.75 | 2.75 | 2.75 | 1 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | UF | INIT | Low-level 1,4-dioxane | Dioxane[1,4-] | 123-91-1 | 2.75 | 1.0 | NMED A1 TAP SCRNLVL | 4.59 | 0.6 | 0.100 | µg/L | 1.00 | | First measurement using low MDL = 0.1 µg/L method |
| C3 | 14 | 20 | 09/23/2010 | 14.9 | 14.9 | 14.9 | 1 | Water Canyon | Regional Top | R-29 | 1170.0 | 08/01/2020 | FD | UF | DL | HEXP | RDX | 121-82-4 | 14.9 | 1.0 | NMED A1 TAP SCRNLVL | 9.66 | 1.5 | 0.235 | µg/L | 5.00 | | This result is from the FD of a REG sample collected on 8/1/2020. The results from the REG sample and FD differed significantly. The REG result was a nondetect (< 0.0842 µg/L). The FD lab dilution at 5x was greater than the typical 2x factor employed. In addition, RDX has not been historically detected at this well. The 24 previous samples collected since 05/10/2010 were all nondetects. |
| C4 | 21 | 26 | 05/09/2006 | 3.56 | 38.3 | 21.1 | 26 | Upper Los Alamos Canyon | Intermediate Perched | LAOI-7 | 240.0 | 08/26/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 22.9 | 1.1 | LANL Int BG LVL | 3.11 | 7.4 | 0.335 | mg/L | 5.00 | | |
| C4 | 21 | 25 | 05/09/2006 | 0.522 | 0.877 | 0.757 | 25 | Upper Los Alamos Canyon | Intermediate Perched | LAOI-7 | 240.0 | 08/26/2020 | REG | F | INIT | Geninorg | Perchlorate | CIO4 | 0.615 | 0.8 | LANL Int BG LVL | 0.27 | 2.3 | 0.0500 | µg/L | 1.00 | | |
| C4 | 59 | 79 | 06/15/2005 | 30.1 | 48.2 | 39.9 | 79 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Metals | Barium | Ba | 35.4 | 0.9 | LANL Int BG LVL | 13.5 | 2.6 | 1.00 | µg/L | 1.00 | | |
| C4 | 59 | 79 | 06/15/2005 | 42.8 | 75.5 | 62.8 | 79 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Metals | Calcium | Ca | 57.9 | 0.9 | LANL Int BG LVL | 10.7 | 5.4 | 0.05 | mg/L | 1.00 | | |

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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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|----------------------|----------|--------------|------------|------------------|---------------|----------------------|-----------------|-----------------------------|-----------|------------|---------------|--------------------|--------------|------------------|---------|---------|-----------------|---------------|----------------------|
| C4 | 60 | 80 | 06/15/2005 | 21.2 | 64.8 | 53.55 | 80 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 49.4 | 0.9 | LANL Int BG LVL | 3.11 | 15.9 | 0.670 | mg/L | 10.00 | | |
| C4 | 60 | 80 | 06/15/2005 | 0.412 | 0.668 | 0.525 | 77 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Fluoride | F(-1) | 0.594 | 1.1 | LANL Int BG LVL | 0.234 | 2.5 | 0.0330 | mg/L | 1.00 | | |
| C4 | 59 | 79 | 06/15/2005 | 142 | 253 | 210 | 79 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Hardness | Hardness | 193 | 0.9 | LANL Int BG LVL | 37.8 | 5.1 | 0.453 | mg/L | 1.00 | | |
| C4 | 59 | 79 | 06/15/2005 | 8.49 | 15.7 | 12.9 | 79 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Metals | Magnesium | Mg | 11.9 | 0.9 | LANL Int BG LVL | 3.14 | 3.8 | 0.11 | mg/L | 1.00 | | |
| C4 | 59 | 79 | 06/15/2005 | 2.9 | 41.8 | 21.9 | 79 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Metals | Nickel | Ni | 23.4 | 1.1 | LANL Int BG LVL | 3.65 | 6.4 | 0.600 | µg/L | 1.00 | | |
| C4 | 60 | 80 | 06/15/2005 | 7.62 | 20.4 | 10.55 | 80 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 11.6 | 1.1 | LANL Int BG LVL | 0.459 | 25.3 | 0.425 | mg/L | 25.00 | | |
| C4 | 60 | 80 | 06/15/2005 | 56.3 | 246 | 82.4 | 80 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 73.7 | 0.9 | LANL Int BG LVL | 0.27 | 273.0 | 5.00 | µg/L | 100.00 | | |
| C4 | 59 | 79 | 06/15/2005 | 196 | 339 | 276 | 79 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Metals | Strontium | Sr | 231 | 0.8 | LANL Int BG LVL | 59.6 | 3.9 | 1.00 | µg/L | 1.00 | | |
| C4 | 59 | 79 | 06/15/2005 | 34.7 | 77.6 | 59.2 | 79 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 49.0 | 0.8 | LANL Int BG LVL | 7.1 | 6.9 | 1.33 | mg/L | 10.00 | | |
| C4 | 24 | 30 | 09/19/2000 | 2.23 | 8.36 | 6.39 | 30 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | FD | F | INIT | Geninorg | Chloride | Cl(-1) | 8.19 | 1.3 | LANL Int BG LVL | 3.11 | 2.6 | 0.0670 | mg/L | 1.00 | | |
| C4 | 24 | 30 | 09/19/2000 | 2.23 | 8.36 | 6.39 | 30 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 8.36 | 1.3 | LANL Int BG LVL | 3.11 | 2.7 | 0.0670 | mg/L | 1.00 | | |
| C4 | 23 | 27 | 09/19/2000 | 0.051 | 1.55 | 1.19 | 26 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | FD | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 1.26 | 1.1 | LANL Int BG LVL | 0.459 | 2.7 | 0.0850 | mg/L | 5.00 | | |
| C4 | 23 | 27 | 09/19/2000 | 0.051 | 1.55 | 1.19 | 26 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 1.27 | 1.1 | LANL Int BG LVL | 0.459 | 2.8 | 0.0850 | mg/L | 5.00 | | |
| C4 | 20 | 24 | 02/01/2006 | 0.817 | 1.16 | 0.907 | 23 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | FD | F | INIT | Geninorg | Perchlorate | ClO4 | 0.840 | 0.9 | LANL Int BG LVL | 0.27 | 3.1 | 0.0500 | µg/L | 1.00 | | |
| C4 | 20 | 24 | 02/01/2006 | 0.817 | 1.16 | 0.907 | 23 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 0.837 | 0.9 | LANL Int BG LVL | 0.27 | 3.1 | 0.0500 | µg/L | 1.00 | | |
| C4 | 23 | 30 | 08/24/2005 | 11.6 | 18 | 16.6 | 30 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 11.6 | 0.7 | LANL Int BG LVL | 3.11 | 3.7 | 0.134 | mg/L | 2.00 | | |
| C4 | 23 | 30 | 08/24/2005 | 0.575 | 1.06 | 0.7005 | 30 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | F | INIT | Geninorg | Fluoride | F(-1) | 1.06 | 1.5 | LANL Int BG LVL | 0.234 | 4.5 | 0.0330 | mg/L | 1.00 | | |
| C4 | 23 | 30 | 08/24/2005 | 2.25 | 5.06 | 3.77 | 30 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 2.25 | 0.6 | LANL Int BG LVL | 0.459 | 4.9 | 0.0850 | mg/L | 5.00 | | |
| C4 | 19 | 26 | 07/26/2006 | 3.53 | 8.32 | 6.38 | 26 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 3.53 | 0.6 | LANL Int BG LVL | 0.27 | 13.1 | 0.200 | µg/L | 4.00 | | |
| C4 | 35 | 36 | 01/11/2007 | 29.9 | 51.3 | 37.1 | 36 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Barium | Ba | 33.0 | 0.9 | LANL Int BG LVL | 13.5 | 2.4 | 1.00 | µg/L | 1.00 | | |
| C4 | 35 | 36 | 01/11/2007 | 47.1 | 87.6 | 68.65 | 36 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Calcium | Ca | 51.3 | 0.7 | LANL Int BG LVL | 10.7 | 4.8 | 0.05 | mg/L | 1.00 | | |
| C4 | 35 | 36 | 01/11/2007 | 148 | 270 | 213 | 36 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Geninorg | Hardness | HARDNESS | 162 | 0.8 | LANL Int BG LVL | 37.8 | 4.3 | 0.453 | mg/L | 1.00 | | |
| C4 | 35 | 36 | 01/11/2007 | 7.47 | 13 | 10.25 | 36 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Magnesium | Mg | 8.18 | 0.8 | LANL Int BG LVL | 3.14 | 2.6 | 0.11 | mg/L | 1.00 | | |
| C4 | 35 | 36 | 01/11/2007 | 44.9 | 97 | 73.85 | 36 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Molybdenum | Mo | 65.3 | 0.9 | LANL Int BG LVL | 2.9 | 22.5 | 0.200 | µg/L | 1.00 | | |

Table 1: NMED 9-20 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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|------------------|----------------------|----------|--------------|------------|------------------|---------------|----------------------|-----------------|-----------------------------|-----------|------------|---------------|--------------------|--------------|------------------|---------|---------|-----------------|---------------|----------------------|
| C4 | 37 | 40 | 01/11/2007 | 0.247 | 4.99 | 2.125 | 40 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 1.40 | 0.7 | LANL Int BG LVL | 0.459 | 3.1 | 0.0850 | mg/L | 5.00 | | |
| C4 | 37 | 39 | 01/11/2007 | 0.602 | 1.58 | 0.902 | 39 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 0.602 | 0.7 | LANL Int BG LVL | 0.27 | 2.2 | 0.0500 | µg/L | 1.00 | | |
| C4 | 35 | 36 | 01/11/2007 | 50.7 | 65.1 | 57.2 | 36 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Sodium | Na | 60.3 | 1.1 | LANL Int BG LVL | 18.2 | 3.3 | 0.1 | mg/L | 1.00 | | |
| C4 | 35 | 36 | 01/11/2007 | 211 | 383 | 305.5 | 36 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Strontium | Sr | 211 | 0.7 | LANL Int BG LVL | 59.6 | 3.5 | 1.00 | µg/L | 1.00 | | |
| C4 | 46 | 58 | 10/21/2008 | 53.4 | 93 | 67.75 | 58 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 79.3 | 1.2 | LANL Int BG LVL | 3.11 | 25.5 | 1.34 | mg/L | 20.00 | | |
| C4 | 46 | 60 | 10/21/2008 | 14 | 19.6 | 16.65 | 60 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Metals | Nickel | Ni | 14.8 | 0.9 | LANL Int BG LVL | 3.65 | 4.1 | 0.600 | µg/L | 1.00 | | |
| C4 | 46 | 58 | 10/21/2008 | 2.89 | 5.1 | 4.115 | 58 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 3.27 | 0.8 | LANL Int BG LVL | 0.459 | 7.1 | 0.170 | mg/L | 10.00 | | |
| C4 | 46 | 58 | 10/21/2008 | 0.83 | 1.12 | 0.957 | 58 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 0.845 | 0.9 | LANL Int BG LVL | 0.27 | 3.1 | 0.0500 | µg/L | 1.00 | | |
| C4 | 46 | 58 | 10/21/2008 | 77.9 | 103 | 88.7 | 58 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 93.2 | 1.1 | LANL Int BG LVL | 7.1 | 13.1 | 2.66 | mg/L | 20.00 | | |
| C4 | 46 | 60 | 10/21/2008 | 1.2 | 2.56 | 1.84 | 60 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Metals | Uranium | U | 2.28 | 1.2 | LANL Int BG LVL | 0.992 | 2.3 | 0.0670 | µg/L | 1.00 | | |
| C4 | 62 | 69 | 08/30/2007 | 68 | 408 | 346 | 69 | Sandia Canyon | Regional Deep | R-35a | 1013.1 | 08/12/2020 | FD | F | INIT | Metals | Barium | Ba | 365 | 1.1 | LANL Reg BG LVL | 38.1 | 9.6 | 1.00 | µg/L | 1.00 | | |
| C4 | 62 | 69 | 08/30/2007 | 68 | 408 | 346 | 69 | Sandia Canyon | Regional Deep | R-35a | 1013.1 | 08/12/2020 | REG | F | INIT | Metals | Barium | Ba | 355 | 1.0 | LANL Reg BG LVL | 38.1 | 9.3 | 1.00 | µg/L | 1.00 | | |
| C4 | 61 | 69 | 08/30/2007 | 5.97 | 7.31 | 6.52 | 69 | Sandia Canyon | Regional Deep | R-35a | 1013.1 | 08/12/2020 | FD | F | INIT | Geninorg | Chloride | Cl(-1) | 6.68 | 1.0 | LANL Reg BG LVL | 2.7 | 2.5 | 0.0670 | mg/L | 1.00 | | |
| C4 | 61 | 69 | 08/30/2007 | 5.97 | 7.31 | 6.52 | 69 | Sandia Canyon | Regional Deep | R-35a | 1013.1 | 08/12/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 6.69 | 1.0 | LANL Reg BG LVL | 2.7 | 2.5 | 0.0670 | mg/L | 1.00 | | |
| C4 | 62 | 69 | 08/30/2007 | 1.2 | 22.2 | 7.43 | 68 | Sandia Canyon | Regional Deep | R-35a | 1013.1 | 08/12/2020 | FD | F | INIT | Metals | Nickel | Ni | 13.2 | 1.8 | LANL Reg BG LVL | 2.9 | 4.6 | 0.600 | µg/L | 1.00 | | |
| C4 | 62 | 69 | 08/30/2007 | 1.2 | 22.2 | 7.43 | 68 | Sandia Canyon | Regional Deep | R-35a | 1013.1 | 08/12/2020 | REG | F | INIT | Metals | Nickel | Ni | 13.2 | 1.8 | LANL Reg BG LVL | 2.9 | 4.6 | 0.600 | µg/L | 1.00 | | |
| C4 | 45 | 49 | 11/10/2008 | 3.37 | 7.55 | 4.69 | 49 | Sandia Canyon | Regional Deep | R-43 S2 | 969.1 | 08/07/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 7.55 | 1.6 | LANL Reg BG LVL | 2.7 | 2.8 | 0.0670 | mg/L | 1.00 | | |
| C4 | 45 | 54 | 11/10/2008 | 1.8 | 40.3 | 8.32 | 44 | Sandia Canyon | Regional Deep | R-43 S2 | 969.1 | 08/07/2020 | REG | F | INIT | Metals | Chromium | Cr | 40.3 | 4.8 | LANL Reg BG LVL | 7.48 | 5.4 | 3.00 | µg/L | 1.00 | | |
| C4 | 45 | 48 | 11/10/2008 | 0.389 | 5.4 | 3.055 | 48 | Sandia Canyon | Regional Deep | R-43 S2 | 969.1 | 08/07/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 3.89 | 1.3 | LANL Reg BG LVL | 0.769 | 5.1 | 0.170 | mg/L | 10.00 | | |
| C4 | 45 | 49 | 11/10/2008 | 0.411 | 0.953 | 0.742 | 49 | Sandia Canyon | Regional Deep | R-43 S2 | 969.1 | 08/07/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 0.926 | 1.2 | LANL Reg BG LVL | 0.414 | 2.2 | 0.0500 | µg/L | 1.00 | | |
| C4 | 45 | 49 | 11/10/2008 | 3.96 | 11 | 6.78 | 49 | Sandia Canyon | Regional Deep | R-43 S2 | 969.1 | 08/07/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 11.0 | 1.6 | LANL Reg BG LVL | 4.59 | 2.4 | 0.133 | mg/L | 1.00 | | |
| C4 | 61 | 64 | 03/05/2009 | 2.74 | 6.18 | 4.345 | 64 | Mortandad Canyon | Regional Deep | R-45 S2 | 974.9 | 08/11/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 5.69 | 1.3 | LANL Reg BG LVL | 2.7 | 2.1 | 0.0670 | mg/L | 1.00 | | |
| C4 | 61 | 69 | 03/05/2009 | 6.1 | 47.6 | 21.7 | 68 | Mortandad Canyon | Regional Deep | R-45 S2 | 974.9 | 08/11/2020 | REG | F | INIT | Metals | Chromium | Cr | 43.6 | 2.0 | LANL Reg BG LVL | 7.48 | 5.8 | 3.00 | µg/L | 1.00 | | |
| C4 | 74 | 88 | 05/17/2005 | 2.27 | 7.43 | 5.39 | 88 | Sandia Canyon | Regional Top | R-11 | 855.0 | 08/05/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 5.25 | 1.0 | LANL Reg BG LVL | 0.769 | 6.8 | 0.850 | mg/L | 50.00 | | |
| C4 | 74 | 88 | 05/17/2005 | 5.95 | 20.2 | 10.25 | 88 | Sandia Canyon | Regional Top | R-11 | 855.0 | 08/05/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 10.4 | 1.0 | LANL Reg BG LVL | 4.59 | 2.3 | 0.133 | mg/L | 1.00 | | |

Table 1: NMED 9-20 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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|--------------|----------|--------------|------------|------------------|---------------|----------------------|-----------------|-----------------------------|-----------|------------|---------------|--------------------|--------------|------------------|---------|---------|-----------------|---------------|----------------------|
| C4 | 57 | 67 | 02/24/2000 | 1.35 | 3.31 | 2.16 | 67 | Mortandad Canyon | Regional Top | R-15 | 958.6 | 08/04/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 1.96 | 0.9 | LANL Reg BG LVL | 0.769 | 2.5 | 0.0850 | mg/L | 5.00 | | |
| C4 | 53 | 62 | 05/25/2005 | 5.34 | 12.3 | 7.76 | 62 | Mortandad Canyon | Regional Top | R-15 | 958.6 | 08/04/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 11.2 | 1.4 | LANL Reg BG LVL | 0.414 | 27.1 | 0.500 | µg/L | 10.00 | | |
| C4 | 20 | 24 | 11/15/2005 | 6.96 | 8.56 | 7.55 | 24 | Upper Los Alamos Canyon | Regional Top | R-24 | 825.0 | 08/27/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 8.56 | 1.1 | LANL Reg BG LVL | 2.7 | 3.2 | 0.0670 | mg/L | 1.00 | | |
| C4 | 45 | 52 | 03/12/2008 | 4.05 | 6.83 | 6.07 | 52 | Sandia Canyon | Regional Top | R-36 | 766.9 | 08/12/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 6.37 | 1.0 | LANL Reg BG LVL | 2.7 | 2.4 | 0.0670 | mg/L | 1.00 | | |
| C4 | 45 | 53 | 03/12/2008 | 1.25 | 6.8 | 2.41 | 53 | Sandia Canyon | Regional Top | R-36 | 766.9 | 08/12/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 2.51 | 1.0 | LANL Reg BG LVL | 0.769 | 3.3 | 0.0850 | mg/L | 5.00 | | |
| C4 | 44 | 51 | 03/12/2008 | 0.845 | 1.74 | 1.51 | 51 | Sandia Canyon | Regional Top | R-36 | 766.9 | 08/12/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 1.34 | 0.9 | LANL Reg BG LVL | 0.414 | 3.2 | 0.0500 | µg/L | 1.00 | | |
| C4 | 46 | 53 | 11/05/2008 | 3.6 | 9.39 | 7.8 | 53 | Sandia Canyon | Regional Top | R-43 S1 | 903.9 | 08/05/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 8.77 | 1.1 | LANL Reg BG LVL | 2.7 | 3.2 | 0.0670 | mg/L | 1.00 | | |
| C4 | 46 | 58 | 11/05/2008 | 2.35 | 223 | 78.8 | 55 | Sandia Canyon | Regional Top | R-43 S1 | 903.9 | 08/05/2020 | REG | F | INIT | Metals | Chromium | Cr | 194 | 2.5 | LANL Reg BG LVL | 7.48 | 25.9 | 3.00 | µg/L | 1.00 | | |
| C4 | 46 | 52 | 11/05/2008 | 4.67 | 6.15 | 5.38 | 51 | Sandia Canyon | Regional Top | R-43 S1 | 903.9 | 08/05/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 4.67 | 0.9 | LANL Reg BG LVL | 0.769 | 6.1 | 0.850 | mg/L | 50.00 | | |
| C4 | 46 | 53 | 11/05/2008 | 8.77 | 21 | 16.2 | 53 | Sandia Canyon | Regional Top | R-43 S1 | 903.9 | 08/05/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 17.6 | 1.1 | LANL Reg BG LVL | 4.59 | 3.8 | 0.133 | mg/L | 1.00 | | |
| C4 | 62 | 67 | 02/28/2009 | 3 | 16.4 | 5.1 | 67 | Mortandad Canyon | Regional Top | R-45 S1 | 880.0 | 08/11/2020 | FD | F | INIT | Geninorg | Chloride | Cl(-1) | 16.4 | 3.2 | LANL Reg BG LVL | 2.7 | 6.1 | 0.134 | mg/L | 2.00 | | |
| C4 | 62 | 67 | 02/28/2009 | 3 | 16.4 | 5.1 | 67 | Mortandad Canyon | Regional Top | R-45 S1 | 880.0 | 08/11/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 16.4 | 3.2 | LANL Reg BG LVL | 2.7 | 6.1 | 0.134 | mg/L | 2.00 | | |
| C4 | 62 | 67 | 02/28/2009 | 0.256 | 3.47 | 2.78 | 67 | Mortandad Canyon | Regional Top | R-45 S1 | 880.0 | 08/11/2020 | FD | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 2.70 | 1.0 | LANL Reg BG LVL | 0.769 | 3.5 | 0.170 | mg/L | 10.00 | | |
| C4 | 62 | 67 | 02/28/2009 | 0.256 | 3.47 | 2.78 | 67 | Mortandad Canyon | Regional Top | R-45 S1 | 880.0 | 08/11/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 2.72 | 1.0 | LANL Reg BG LVL | 0.769 | 3.5 | 0.0850 | mg/L | 5.00 | | |
| C4 | 62 | 67 | 02/28/2009 | 4.1 | 17.2 | 7.68 | 67 | Mortandad Canyon | Regional Top | R-45 S1 | 880.0 | 08/11/2020 | FD | F | INIT | Geninorg | Sulfate | SO4(-2) | 16.1 | 2.1 | LANL Reg BG LVL | 4.59 | 3.5 | 0.133 | mg/L | 1.00 | | |
| C4 | 62 | 67 | 02/28/2009 | 4.1 | 17.2 | 7.68 | 67 | Mortandad Canyon | Regional Top | R-45 S1 | 880.0 | 08/11/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 16.1 | 2.1 | LANL Reg BG LVL | 4.59 | 3.5 | 0.133 | mg/L | 1.00 | | |
| C4 | 64 | 71 | 03/06/2010 | 4.68 | 20 | 9.46 | 71 | Mortandad Canyon | Regional Top | R-50 S1 | 1077.0 | 08/10/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 17.1 | 1.8 | LANL Reg BG LVL | 2.7 | 6.3 | 0.335 | mg/L | 5.00 | | |
| C4 | 64 | 73 | 03/06/2010 | 26.3 | 150 | 93.7 | 73 | Mortandad Canyon | Regional Top | R-50 S1 | 1077.0 | 08/10/2020 | REG | F | INIT | Metals | Chromium | Cr | 38.8 | 0.4 | LANL Reg BG LVL | 7.48 | 5.2 | 3.00 | µg/L | 1.00 | | |
| C4 | 64 | 71 | 03/06/2010 | 1.51 | 14.6 | 4.33 | 71 | Mortandad Canyon | Regional Top | R-50 S1 | 1077.0 | 08/10/2020 | REG | F | INIT | Metals | Nickel | Ni | 6.22 | 1.4 | LANL Reg BG LVL | 2.9 | 2.1 | 0.600 | µg/L | 1.00 | | |
| C4 | 64 | 72 | 03/06/2010 | 0.398 | 2.94 | 2.03 | 72 | Mortandad Canyon | Regional Top | R-50 S1 | 1077.0 | 08/10/2020 | 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 | 10.00 | | |
| C4 | 64 | 71 | 03/06/2010 | 7.22 | 20.2 | 13.9 | 71 | Mortandad Canyon | Regional Top | R-50 S1 | 1077.0 | 08/10/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 17.4 | 1.3 | LANL Reg BG LVL | 4.59 | 3.8 | 0.665 | mg/L | 5.00 | | |
| C4 | 48 | 55 | 05/20/2011 | 2.03 | 39.1 | 21.2 | 54 | Mortandad Canyon | Regional Top | R-61 S1 | 1125.0 | 08/10/2020 | REG | F | INIT | Metals | Chromium | Cr | 39.0 | 1.8 | LANL Reg BG LVL | 7.48 | 5.2 | 3.00 | µg/L | 1.00 | | |
| C4 | 48 | 55 | 05/20/2011 | 0.427 | 2.95 | 2.14 | 55 | Mortandad Canyon | Regional Top | R-61 S1 | 1125.0 | 08/10/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 2.30 | 1.1 | LANL Reg BG LVL | 0.769 | 3.0 | 0.170 | mg/L | 10.00 | | |
| C4 | 47 | 54 | 05/20/2011 | 2.96 | 16.2 | 11.7 | 54 | Mortandad Canyon | Regional Top | R-61 S1 | 1125.0 | 08/10/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 11.4 | 1.0 | LANL Reg BG LVL | 0.414 | 27.5 | 0.500 | µg/L | 10.00 | | |
| C4 | 30 | 36 | 03/26/2012 | 1.64 | 18.8 | 9.39 | 36 | Sandia Canyon | Regional Top | R-62 | 1158.4 | 08/21/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 16.7 | 1.8 | LANL Reg BG LVL | 2.7 | 6.2 | 0.335 | mg/L | 5.00 | | |

Table 1: NMED 9-20 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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|----------------------|----------|--------------|------------|------------------|---------------|----------------------|-----------------|-----------------------------|---|------------|---------------|---------------------|--------------|------------------|---------|---------|-----------------|---------------|---|
| C4 | 30 | 36 | 03/26/2012 | 104 | 311 | 179 | 36 | Sandia Canyon | Regional Top | R-62 | 1158.4 | 08/21/2020 | REG | F | INIT | Metals | Chromium | Cr | 287 | 1.6 | LANL Reg BG LVL | 7.48 | 38.4 | 3.00 | µg/L | 1.00 | | |
| C4 | 30 | 36 | 03/26/2012 | 0.0685 | 2.25 | 1.35 | 36 | Sandia Canyon | Regional Top | R-62 | 1158.4 | 08/21/2020 | REG | F | INIT | Geninorg | Nitrate-nitrite as nitrogen | NO3+NO2-N | 1.99 | 1.5 | LANL Reg BG LVL | 0.769 | 2.6 | 0.0850 | mg/L | 5.00 | | |
| C4 | 30 | 36 | 03/26/2012 | 0.719 | 0.937 | 0.807 | 36 | Sandia Canyon | Regional Top | R-62 | 1158.4 | 08/21/2020 | REG | F | INIT | Geninorg | Perchlorate | ClO4 | 0.937 | 1.2 | LANL Reg BG LVL | 0.414 | 2.3 | 0.0500 | µg/L | 1.00 | | |
| C4 | 30 | 36 | 03/26/2012 | 2.56 | 33 | 16.55 | 36 | Sandia Canyon | Regional Top | R-62 | 1158.4 | 08/21/2020 | REG | F | INIT | Geninorg | Sulfate | SO4(-2) | 29.3 | 1.8 | LANL Reg BG LVL | 4.59 | 6.4 | 0.665 | mg/L | 5.00 | | |
| C4 | 20 | 26 | 02/28/2000 | 10.1 | 209 | 179 | 26 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | FD | F | INIT | METALS | Barium | Ba | 179 | 1.0 | LANL Reg BG LVL | 38.1 | 4.7 | 1.00 | µg/L | 1.00 | | |
| C4 | 20 | 26 | 02/28/2000 | 10.1 | 209 | 179 | 26 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | REG | F | INIT | METALS | Barium | Ba | 179 | 1.0 | LANL Reg BG LVL | 38.1 | 4.7 | 1.00 | µg/L | 1.00 | | |
| C4 | 21 | 29 | 02/28/2000 | 5.59 | 7.4 | 6.03 | 29 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | FD | F | INIT | Geninorg | Chloride | Cl(-1) | 5.95 | 1.0 | LANL Reg BG LVL | 2.7 | 2.2 | 0.0670 | mg/L | 1.00 | | |
| C4 | 21 | 29 | 02/28/2000 | 5.59 | 7.4 | 6.03 | 29 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | REG | F | INIT | Geninorg | Chloride | Cl(-1) | 5.89 | 1.0 | LANL Reg BG LVL | 2.7 | 2.2 | 0.0670 | mg/L | 1.00 | | |
| C5 | 23 | 30 | 08/24/2005 | 0.575 | 1.06 | 0.7005 | 30 | Upper Los Alamos Canyon | Intermediate Perched | R-6i | 602.0 | 08/25/2020 | REG | F | INIT | Geninorg | Fluoride | F(-1) | 1.06 | 1.5 | NM GW STD | 1.6 | 0.7 | 0.0330 | mg/L | 1.00 | | |
| C5 | 14 | 18 | 03/20/2017 | 8.08 | 24 | 15.75 | 18 | Water Canyon | Regional Top | R-68 | 1340.0 | 08/03/2020 | FD | UF | DL | HEXP | RDX | 121-82-4 | 18.3 | 1.2 | NMED A1 TAP SCRNLVL | 9.66 | 1.9 | 0.209 | µg/L | 5.00 | | |
| CA | 14 | 20 | 09/23/2010 | 14.9 | 14.9 | 14.9 | 1 | Water Canyon | Regional Top | R-29 | 1170.0 | 08/01/2020 | FD | UF | DL | HEXP | RDX | 121-82-4 | 14.9 | 1.0 | NMED A1 TAP SCRNLVL | 9.66 | 1.5 | 0.235 | µg/L | 5.00 | | This result is from the FD of a REG sample collected on 8/1/2020. The results from the REG sample and FD differed significantly. The REG result was a nondetect (< 0.0842 µg/L). The FD lab dilution at 5x was greater than the typical 2x factor employed. In addition, RDX has not been historically detected at this well. The 24 previous samples collected since 05/10/2010 were all nondetects. |
| CA | 1 | 1 | 08/18/2020 | 13.7 | 13.7 | 13.7 | 1 | Mortandad Canyon | Alluvial | MCO-7 | 39.0 | 08/18/2020 | REG | UF | INIT | PFAS | Total PFAS | Sum of: 355-46-4, 1763-23-1, and 335-67-1 | 82.0 | 1.0 | NMED A1 TAP SCRNLVL | 70 | 0.2 | 0.613 | ng/L | 1.00 | | First sampling for PFAS |

Note 1: The low-level nitrosamines method is a non-EPA promulgated method. Further assessment of the reliability of the data from this method is underway.

Table 2: NMED 9-20 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 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 | 24 | 26 | 11/17/2005 | 0.032 | 0.102 | 0.0545 | 6 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | FD | F | INIT | Geninorg | Ammonia as nitrogen | NH3-N | 0.102 | 1.9 | Reg-Scr_95 | 0.1 | 1.0 | 0.0170 | mg/L | 1.00 | | NQ | NQ | EPA:350.1 | GELC | |
| XC2scr | 22 | 25 | 08/23/2005 | 2.4 | 17.7 | 4.6 | 8 | Upper Los Alamos Canyon | Regional | R-6 | 1205.0 | 08/25/2020 | REG | F | INIT | Metals | Zinc | Zn | 17.7 | 3.8 | Reg-Scr_95 | 14.4 | 1.2 | 3.30 | µg/L | 1.00 | J | J | J_LAB | SW-846:6010C | GELC | |
| XC2scr | 44 | 45 | 06/24/2005 | 0.081 | 0.081 | 0.081 | 1 | Mortandad Canyon | Regional Deep | R-33 S2 | 1112.4 | 08/14/2020 | REG | F | INIT | Metals | Mercury | Hg | 0.0810 | 1.0 | Reg-Scr_95 | 0.067 | 1.2 | 0.0670 | µg/L | 1.00 | J | J | J_LAB | SW-846:7470A | GELC | |
| XC2scr | 21 | 25 | 04/26/2005 | 0.02 | 0.27 | 0.0408 | 11 | Pueblo Canyon | Regional Top | R-2 | 906.4 | 08/31/2020 | REG | F | INIT | Geninorg | Total phosphate as phosphorus | PO4-P | 0.270 | 6.6 | Reg-Scr_95 | 0.0822 | 3.3 | 0.0200 | mg/L | 1.00 | | J+ | I4a | EPA:365.4 | GELC | |
| XC2scr | 18 | 21 | 12/03/2015 | 15.1 | 18.8 | 16.95 | 2 | Sandia Canyon | Regional Top | R-67 | 1242.6 | 08/20/2020 | REG | F | INIT | Metals | Boron | B | 18.8 | 1.1 | Reg-Scr_95 | 18.7 | 1.0 | 15.0 | µg/L | 1.00 | J | J | J_LAB | SW-846:6010C | GELC | |
| XC2scr | 10 | 12 | 03/20/2017 | 1.38 | 1.38 | 1.38 | 1 | Water Canyon | Regional Top | R-68 | 1340.0 | 08/03/2020 | REG | F | INIT | Metals | Cobalt | Co | 1.38 | 1.0 | Reg-Scr_95 | 1 | 1.4 | 1.00 | µg/L | 1.00 | J | U | I4b | SW-846:6010C | GELC | |
| XC4scr | 59 | 79 | 06/15/2005 | 0.212 | 0.703 | 0.5705 | 76 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Bromide | Br(-1) | 0.496 | 0.9 | Int-Scr_95 | 0.0716 | 6.9 | 0.0670 | mg/L | 1.00 | | NQ | NQ | EPA:300.0 | GELC | |
| XC4scr | 59 | 82 | 06/15/2005 | 29.4 | 86.6 | 61.3 | 82 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Metals | Chromium | Cr | 61.0 | 1.0 | Int-Scr_95 | 2.72 | 22.4 | 3.00 | µg/L | 1.00 | | NQ | NQ | SW-846:6020B | GELC | |
| XC4scr | 60 | 80 | 06/15/2005 | 298 | 527 | 403.5 | 80 | Mortandad Canyon | Intermediate Perched | MCOI-6 | 686.0 | 08/17/2020 | REG | F | INIT | Geninorg | Total dissolved solids | TDS | 421 | 1.0 | Int-Scr_95 | 135 | 3.1 | 3.40 | mg/L | 1.00 | | NQ | NQ | EPA:160.1 | GELC | |
| XC4scr | 24 | 28 | 09/19/2000 | 23.6 | 180 | 36.25 | 28 | Sandia Canyon | Intermediate Perched | R-12 S2 | 504.5 | 08/07/2020 | REG | F | INIT | Metals | Manganese | Mn | 31.7 | 0.9 | Int-Scr_95 | 8.39 | 3.8 | 2.00 | µg/L | 1.00 | | NQ | NQ | SW-846:6010C | GELC | |
| XC4scr | 35 | 36 | 01/11/2007 | 40.8 | 99.4 | 82.4 | 35 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Boron | B | 76.4 | 0.9 | Int-Scr_95 | 16.2 | 4.7 | 15.0 | µg/L | 1.00 | | NQ | NQ | SW-846:6010C | GELC | |
| XC4scr | 35 | 38 | 01/11/2007 | 7.99 | 22.1 | 11.7 | 37 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Metals | Chromium | Cr | 9.83 | 0.8 | Int-Scr_95 | 2.72 | 3.6 | 3.00 | µg/L | 1.00 | J | J | J_LAB | SW-846:6020B | GELC | |
| XC4scr | 37 | 40 | 01/11/2007 | 357 | 536 | 480.5 | 40 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Geninorg | Total dissolved solids | TDS | 424 | 0.9 | Int-Scr_95 | 135 | 3.1 | 3.40 | mg/L | 1.00 | | NQ | NQ | EPA:160.1 | GELC | |
| XC4scr | 35 | 36 | 01/11/2007 | 0.404 | 1.45 | 0.905 | 35 | Sandia Canyon | Intermediate Perched | SCI-1 | 358.4 | 08/06/2020 | REG | F | INIT | Geninorg | Total phosphate as phosphorus | PO4-P | 1.26 | 1.4 | Int-Scr_95 | 0.178 | 7.1 | 0.0200 | mg/L | 1.00 | | NQ | NQ | EPA:365.4 | GELC | |
| XC4scr | 46 | 58 | 10/21/2008 | 0.194 | 0.846 | 0.632 | 57 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Geninorg | Bromide | Br(-1) | 0.756 | 1.2 | Int-Scr_95 | 0.0716 | 10.6 | 0.0670 | mg/L | 1.00 | | J+ | I6b | EPA:300.0 | GELC | |
| XC4scr | 46 | 65 | 10/21/2008 | 262 | 658 | 436 | 65 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Metals | Chromium | Cr | 262 | 0.6 | Int-Scr_95 | 2.72 | 96.3 | 3.00 | µg/L | 1.00 | | NQ | NQ | SW-846:6020B | GELC | |
| XC4scr | 31 | 37 | 08/04/2009 | 0.00405 | 0.00983 | 0.00659 | 37 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | UF | INIT | Inorganic | Cyanide (total) | CN (total) | 0.00433 | 0.7 | Int-Scr_95 | 0.0017 | 2.5 | 0.00167 | mg/L | 1.00 | J | J | J_LAB | EPA:335.4 | GELC | |
| XC4scr | 46 | 59 | 10/21/2008 | 354 | 796 | 426 | 59 | Sandia Canyon | Intermediate Perched | SCI-2 | 548.0 | 08/06/2020 | REG | F | INIT | Geninorg | Total dissolved solids | TDS | 423 | 1.0 | Int-Scr_95 | 135 | 3.1 | 3.40 | mg/L | 1.00 | | NQ | NQ | EPA:160.1 | GELC | |
| XC4scr | 20 | 26 | 03/19/2004 | 3.74 | 68 | 44.05 | 26 | Mortandad Canyon | Regional Deep | R-16 S4 | 1237.0 | 08/19/2020 | FD | F | INIT | Metals | Manganese | Mn | 42.8 | 1.0 | Reg-Scr_95 | 12.1 | 3.5 | 2.00 | µg/L | 1.00 | | NQ | NQ | SW-846:6010C | GELC | |
| XC4scr | 20 | 26 | 03/19/2004 | 3.74 | 68 | 44.05 | 26 | Mortandad Canyon | Regional Deep | R-16 S4 | 1237.0 | 08/19/2020 | REG | F | INIT | Metals | Manganese | Mn | 44.1 | 1.0 | Reg-Scr_95 | 12.1 | 3.6 | 2.00 | µg/L | 1.00 | | NQ | NQ | SW-846:6010C | GELC | |
| XC4scr | 19 | 23 | 11/15/2005 | 41.8 | 64 | 51.15 | 22 | Lower Los Alamos Canyon | Regional Top | R-24 | 825.0 | 08/27/2020 | REG | F | INIT | Metals | Boron | B | 59.2 | 1.2 | Reg-Scr_95 | 18.7 | 3.2 | 15.0 | µg/L | 1.00 | | NQ | NQ | SW-846:6010C | GELC | |
| XC4scr | 64 | 71 | 03/06/2010 | 0.0691 | 0.162 | 0.0953 | 51 | Mortandad Canyon | Regional Top | R-50 S1 | 1077.0 | 08/10/2020 | REG | F | INIT | Geninorg | Bromide | Br(-1) | 0.136 | 1.4 | Reg-Scr_95 | 0.067 | 2.0 | 0.0670 | mg/L | 1.00 | J | J | J_LAB | EPA:300.0 | GELC | |

Table 2: NMED 9-20 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 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 |
|---------------|--------|---------|-------------|------------|------------|---------------|------------|-------------------------|--------------|----------|--------------|------------|------------------|---------------|----------------------|-----------------|-------------------------------|---------|------------|---------------|--------------------|--------------|------------------|---------|---------|-----------------|---------------|----------------------|------------------------|----------------|----------|---------|
| XC4scr | 48 | 55 | 05/20/2011 | 0.0531 | 11.8 | 0.5725 | 52 | Mortandad Canyon | Regional Top | R-61 S1 | 1125.0 | 08/10/2020 | REG | F | INIT | Geninorg | Total phosphate as phosphorus | PO4-P | 0.369 | 0.6 | Reg-Scr_95 | 0.0822 | 4.5 | 0.0200 | mg/L | 1.00 | | NQ | NQ | EPA:365.4 | GELC | |
| XC4scr | 30 | 36 | 03/26/2012 | 0.0706 | 0.202 | 0.117 | 31 | Sandia Canyon | Regional Top | R-62 | 1158.4 | 08/21/2020 | REG | F | INIT | Geninorg | Bromide | Br(-1) | 0.153 | 1.3 | Reg-Scr_95 | 0.067 | 2.3 | 0.0670 | mg/L | 1.00 | J | J | J_LAB | EPA:300.0 | GELC | |
| XC4scr | 20 | 26 | 02/28/2000 | 39 | 57.6 | 47 | 25 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | FD | F | INIT | Metals | Boron | B | 56.9 | 1.2 | Reg-Scr_95 | 18.7 | 3.0 | 15.0 | µg/L | 1.00 | | NQ | NQ | SW-846:6010C | GELC | |
| XC4scr | 20 | 26 | 02/28/2000 | 39 | 57.6 | 47 | 25 | Upper Los Alamos Canyon | Regional Top | R-9 | 683.0 | 08/26/2020 | REG | F | INIT | Metals | Boron | B | 57.6 | 1.2 | Reg-Scr_95 | 18.7 | 3.1 | 15.0 | µg/L | 1.00 | | NQ | NQ | SW-846:6010C | GELC | |