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

EMLA-25-BF249-2-1

June 26, 2025

Mr. JohnDavid Nance, Hazardous Waste Bureau Chief
Designated Agency Manager
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Subject: Monthly Notification of Groundwater Data Reviewed in June 2025

Dear Mr. Nance:

This letter is the written submission of the monthly groundwater data review notification by the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) in accordance with Section 26.D of the 2016 Compliance Order on Consent, as revised in 2024 (Consent Order). Members of EM-LA and N3B met on June 12, 2025, to review groundwater data loaded into or released from the EIM database during the previous calendar month. The enclosed report was prepared by comparing the data against groundwater notification criteria as defined in Section 9 of the 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." EPA's tap water standard for carcinogenic risk values was adjusted to 1×10^{-5}, as specified in the Consent Order.

The enclosed report was prepared using the November 2024 EPA regional screening levels for tap water; the NMWQCC groundwater standards published on December 21, 2018; and the June 2022 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation" for NMED tap water screening levels.

This report does not include analytical data from samples collected at locations within the Pueblo de San Ildefonso, which are subject to reporting as required under the 2014 Memorandum of Agreement (as amended in 2015) between the DOE National Nuclear Security Administration Los Alamos Field Office, EM-LA, and the Pueblo de San Ildefonso.

1-Day Notification

No analytical result exceeded either the NMWQCC groundwater standard or EPA MCL within a well-screen interval or spring where it had not been previously detected above the respective standard (based on data collected since June 14, 2007).

15-Day Notification

The information required for constituents that meet at least one of the five reporting criteria requiring written notification within 15 days is provided in the enclosed report and tables.

If you have questions, please contact Adam Barras at (505) 257-8289 (adam.barras@em-la.doe.gov) or Brian Harcek at (505) 692-4261 (brian.harcek@em.doe.gov).

Sincerely,

Digitally signed by BRIAN HARCEK
Date: 2025.06.26 11:44:42 -06'00'

Brian Harcek, Director
Office of Quality and Regulatory Compliance
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s):

1. Summary of Groundwater Data Reviewed in June 2025 that Meet Notification Requirements (EM2025-0372)

cc (letter with CD/DVD enclosure[s]):
Anne Laurent, Los Alamos County, Los Alamos, NM (2 copies)

cc (letter and enclosure[s] emailed):
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Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
David Gomez, Los Alamos County, Los Alamos, NM
Steve Yanicak, NMED-DOE-OB
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SUMMARY OF GROUNDWATER DATA REVIEWED IN JUNE 2025 THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by the U.S. Department of Energy Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) under the annual "Interim Facility-Wide Groundwater Monitoring Plan for the 2025 Monitoring Year, October 2024–September 2025, Revision 1" (IFGMP) (N3B 2024, 703382). The report contains results for contaminants and other chemical constituents that meet at least one of the five screening criteria described in Section 26.D of the 2016 Compliance Order on Consent, as revised in 2024 (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 (LANL or the Laboratory), as indicated in the tables.

The report includes two tables. Table 1, NMED 05-25 Groundwater Report, presents categorical results since June 14, 2007, that meet one or more of the five reporting criteria as specified in the Consent Order. Table 2, NMED 05-25 Groundwater Report Addendum, presents results that exceed the 95th percentile of the results in the data set defined in the "Groundwater Background Investigation Report, Revision 5" (GBIR) (LANL 2016, 601920). 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; and
- sampling date, name and 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 included. All data have undergone secondary validation.

This report was prepared by comparing the data against groundwater notification criteria as defined in Section 9 of the 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 GBIR (LANL 2016, 601920). EPA's tap water standard carcinogenic risk values were adjusted to 1×10^{-5}, as specified in the Consent Order. This report uses the November 2024 EPA regional screening levels for tap water (https://semspub.epa.gov/work/HQ/405289.pdf); the NMWQCC groundwater standards published on December 21, 2018; and the NMED tap water screening levels specified in the June 2022 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation" (Risk Assessment Guidance) (NMED 2022, 702141, Table A-1).

Background values applied in Table 1, notification criterion C4, are the background values for hydrogeological zones as set forth in the GBIR (LANL 2016, 601920).

Screening values applied in Table 2, criterion XC4scr, are the 95th percentile of the data set used to establish background as defined in the GBIR (LANL 2016, 601920).

DESCRIPTION OF TABLES

1-Day Notification Requirement

One-day notification is required upon the detection of a contaminant in a well-screen interval or spring at a concentration that exceeds either the NMWQCC water quality standard or EPA MCL if that contaminant has not previously exceeded either of these standards at that location. N3B, under the direction of EM-LA, notifies NMED of any such data orally within 1 business day following the review of monthly analytical data. Data in the 1-day notification are also included in the 15-day notification table. Such exceedance data are identified under the Criterion Code A (CA) in notifications.

15-Day Notification Requirement

Written notification within 15 days is required for constituents that meet at least one of the five screening criteria in Section 9.D of the Consent Order. The data in Table 1 are sorted by these five screening criteria. In several cases, data meet more than one of the notification criteria and, therefore, appear in the table multiple times. Some criteria may not appear in Table 1 if no samples in the current reporting period exceed the requirements of those criteria.

The criterion (C) codes 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 at a concentration above the background level, 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 level in Table A-1 of NMED's Risk Assessment Guidance; 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

The data in Table 2 are sorted by two screening criteria that mirror C2 and C4 in Table 1, respectively:

XC2scr Detection of a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration above the 95th percentile, 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 GBIR (LANL 2016, 601920)

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 GBIR (LANL 2016, 601920)

Columns 2 through 8 in both tables provide summary statistics for metals or organic/inorganic compounds by field preparation code (e.g., filtered [F] aluminum) for samples collected since January 1, 2000, including the currently reported data. The statistics include:

Visits— the date of the first sampling event; the number of sampling events, and samples analyzed

Samples—the number of samples analyzed

First Event—the date of the first sampling event

Min Detect—the minimum, maximum, and median concentration for detections

Max Detect—the maximum concentration for detections

Median Detect—the median concentration for detections respectively

Num Detect—the number of 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 located

Zone—hydrogeological zone (e.g., alluvial spring) from which the groundwater sample was collected

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 (FDs)

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)

Analy 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 regulatory standard, screening level, or background value indicated by the LVL Type/Risk Code

Exceedance Ratio—ratio of Std Result to Screen Level. 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 (e.g., sample collection, additional quality control samples such as FDs) on the quality of the sample data

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

Analytical 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 and abbreviations:

C—criterion code

CA—Criterion Code A

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

F—filtered

FD—field duplicate

GELC—GEL Laboratories, LLC, Division of the GEL Group, Charleston, SC

Geninorg—general inorganic

HEXP—high explosive

IFGMP—Interim Facility-Wide Groundwater Monitoring Plan

INIT—primary sample

LANL Int BG LV—LANL intermediate background level

LANL Reg BG LV—LANL regional background level

LCMS/MS—liquid chromatography mass spectrometry/mass spectrometry

MDL—method detection limit

n/a—not applicable

NM GW STD—NMWQCC groundwater standard

NMED A1 TAP SCRN LVL—NMED Table A-1 screening level for tap water

PCB—polychlorinated biphenyl

QC—quality control

REG—regular sample

S—screen

SVOC—semivolatile organic compound

TDS—total dissolved solids

UF—unfiltered

UOM—unit of measurement

VOC—volatile organic compound

Analytical Laboratory Codes and Qualifiers

The tables may include the following analytical laboratory codes and qualifiers:

I6a (validation reason code)—The associated matrix spike percent recovery is less than the lower acceptance limit.

I6b (validation reason code)—The associated matrix spike percent recovery is greater than the upper acceptance limit.

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

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

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

REFERENCES

The following reference list includes documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

LANL (Los Alamos National Laboratory), October 27, 2016. "Groundwater Background Investigation Report, Revision 5," Los Alamos National Laboratory document LA-UR-16-27907, Los Alamos, New Mexico. (LANL 2016, 601920)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), October 2024. "Interim Facility-Wide Groundwater Monitoring Plan for the 2025 Monitoring Year, October 2024–September 2025, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2024-0699, Los Alamos, New Mexico. (N3B 2024, 703382)

NMED (New Mexico Environment Department), June 2022. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2022, 702141)

Table 1. NMED 5-25 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy 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	Analy Meth Code	Lab Code	Comment
C2	117	138	8/30/2007	0.797	5	1.105	118	Sandia Canyon	Regional Deep	R-35a	1013.1	4/1/2025	REG	F	INIT	Metals	Molybdenum	Mo	5.00	4.5	LANL Reg BG LVL	2.5	2	0.200	µg/L	1.00	—[a]	NQ	NQ	SW-846:6020B	GELC	
C4	27	28	11/4/2021	6.02	17.5	9.465	28	Mortandad Canyon	Regional Top	CRPZ-1	1122.9	4/11/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	8.37	0.9	LANL Reg BG LVL	2.7	3.1	0.0670	mg/L	1.00	—	J	I6b	SW-846:9056A	GELC	
C4	27	28	11/4/2021	68.8	167	124	28	Mortandad Canyon	Regional Top	CRPZ-1	1122.9	4/11/2025	REG	F	INIT	Metals	Chromium	Cr	93.2	0.8	LANL Reg BG LVL	7.48	12.5	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	27	28	11/4/2021	2.24	3.5	2.89	28	Mortandad Canyon	Regional Top	CRPZ-1	1122.9	4/11/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.82	1	LANL Reg BG LVL	0.769	3.7	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	27	28	11/4/2021	10.5	26.1	18.15	28	Mortandad Canyon	Regional Top	CRPZ-1	1122.9	4/11/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	16.6	0.9	LANL Reg BG LVL	0.414	40.1	0.250	µg/L	5.00	—	NQ	NQ	SW-846:6850	GELC	
C4	27	28	11/4/2021	9.98	23.8	15.35	28	Mortandad Canyon	Regional Top	CRPZ-1	1122.9	4/11/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	13.5	0.9	LANL Reg BG LVL	4.59	2.9	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	27	28	11/10/2021	65.6	90.1	79.4	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Metals	Barium	Ba	76.6	1	LANL Reg BG LVL	38.1	2	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	27	28	11/10/2021	48.1	64.7	58.4	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Metals	Calcium	Ca	53.9	0.9	LANL Reg BG LVL	17.03	3.2	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	27	28	11/10/2021	41	61.3	53.35	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	48.9	0.9	LANL Reg BG LVL	2.7	18.1	0.670	mg/L	10.0	—	J	I6b	SW-846:9056A	GELC	
C4	27	28	11/10/2021	179	323	238.5	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Metals	Chromium	Cr	275	1.2	LANL Reg BG LVL	7.48	36.8	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	27	28	11/10/2021	168	228	205	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Geninorg	Hardness	Hardness	191	0.9	LANL Reg BG LVL	67.1	2.8	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
C4	27	28	11/10/2021	11.7	17.6	14.5	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Metals	Magnesium	Mg	13.7	0.9	LANL Reg BG LVL	4.18	3.3	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	27	28	11/10/2021	5.98	8.24	7.115	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Metals	Nickel	Ni	7.64	1.1	LANL Reg BG LVL	2.9	2.6	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	27	28	11/10/2021	3.43	5.2	4.16	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.11	1.2	LANL Reg BG LVL	0.769	6.6	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	27	28	11/10/2021	0.854	1.08	0.977	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.987	1	LANL Reg BG LVL	0.414	2.4	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	27	28	11/10/2021	53.7	73.3	64.3	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	62.3	1	LANL Reg BG LVL	4.59	13.6	1.33	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C4	27	28	11/10/2021	309	404	357.5	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	349	1	LANL Reg BG LVL	161	2.2	2.38	mg/L	1.00	—	NQ	NQ	EPA:160.1	GELC	
C4	27	28	11/10/2021	2.48	4.11	3.36	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Metals	Uranium	U	2.48	0.7	LANL Reg BG LVL	1.19	2.1	0.0670	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	26	27	11/09/2021	17.1	24	22	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Geninorg	Chloride	Cl(-1)	22.1	1	LANL Reg BG LVL	2.7	8.2	0.268	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	26	27	11/9/2021	17.1	24	22	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	21.9	1	LANL Reg BG LVL	2.7	8.1	0.268	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	26	27	11/9/2021	297	531	488	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Metals	Chromium	Cr	433	0.9	LANL Reg BG LVL	7.48	57.9	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	26	27	11/9/2021	297	531	488	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Metals	Chromium	Cr	421	0.9	LANL Reg BG LVL	7.48	56.3	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	26	27	11/9/2021	5.1	6.2	5.5	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.36	1	LANL Reg BG LVL	0.769	7	0.170	mg/L	10.0	—	J	I6b	EPA:353.2	GELC	
C4	26	27	11/9/2021	5.1	6.2	5.5	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.17	0.9	LANL Reg BG LVL	0.769	6.7	0.170	mg/L	10.0	—	J	I6b	EPA:353.2	GELC	
C4	26	27	11/9/2021	0.958	1.38	1.23	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	LCMS/MS	Perchlorate	ClO4	1.34	1.1	LANL Reg BG LVL	0.414	3.2	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	26	27	11/9/2021	0.958	1.38	1.23	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	1.20	1	LANL Reg BG LVL	0.414	2.9	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	26	27	11/9/2021	27.9	41.1	37.2	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Geninorg	Sulfate	SO4(-2)	35.6	1	LANL Reg BG LVL	4.59	7.8	0.532	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	26	27	11/9/2021	27.9	41.1	37.2	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	34.8	0.9	LANL Reg BG LVL	4.59	7.6	0.532	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	26	27	11/10/2021	6.31	11.5	7.66	27	Mortandad Canyon	Regional Deep	CRPZ-4	957	4/15/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.66	1	LANL Reg BG LVL	2.7	2.8	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	26	27	11/10/2021	88.4	171	101	27	Mortandad Canyon	Regional Deep	CRPZ-4	957	4/15/2025	REG	F	INIT	Metals	Chromium	Cr	102	1	LANL Reg BG LVL	7.48	13.6	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	26	26	11/10/2021	3.38	5.94	5.075	26	Mortandad Canyon	Regional Deep	CRPZ-4	957	4/15/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.82	0.9	LANL Reg BG LVL	0.769	6.3	0.170	mg/L	10.0	—	J	I6b	EPA:353.2	GELC	
C4	26	27	11/10/2021	2.78	51.4	4.76	27	Mortandad Canyon	Regional Deep	CRPZ-4	957	4/15/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	3.88	0.8	LANL Reg BG LVL	0.414	9.4	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	26	27	11/10/2021	12.3	19.5	14	27	Mortandad Canyon	Regional Deep	CRPZ-4	957	4/15/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	13.8	1	LANL Reg BG LVL	4.59	3	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	27	27	11/22/2021	14.9	19.7	17.7	27	Mortandad Canyon	Regional Deep	CRPZ-5	976	4/14/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	19.7	1.1	LANL Reg BG LVL	2.7	7.3	0.268	mg/L	4.00	—	J	I6b	SW-846:9056A	GELC	
C4	27	27	11/22/2021	411	597	490	27	Mortandad Canyon	Regional Deep	CRPZ-5	976	4/14/2025	REG	F	INIT	Metals	Chromium	Cr	534	1.1	LANL Reg BG LVL	7.48	71.4	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	27	27	11/22/2021	2.73	4.04	3.52	27	Mortandad Canyon	Regional Deep	CRPZ-5	976	4/14/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.36	1	LANL Reg BG LVL	0.769	4.4	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	27	27	11/22/2021	0.731	1.13	0.962	27	Mortandad Canyon	Regional Deep	CRPZ-5	976	4/14/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.933	1	LANL Reg BG LVL	0.414	2.3	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	27	27	11/22/2021	25.8	34.8	31	27	Mortandad Canyon	Regional Deep	CRPZ-5	976	4/14/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	34.8	1.1	LANL Reg BG LVL	4.59	7.6	0.532	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	130	158	5/17/2005	2.27	9.45	5.735	158	Sandia Canyon	Regional Top	R-11	855.0	4/9/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	7.71	1.3	LANL Reg BG LVL	0.769	10	0.170	mg/L	10.0	—	J	I6a	EPA:353.2	GELC	
C4	123	146	6/13/2007	0.664	1.55	0.8015	146	Sandia Canyon	Regional Top	R-11	855.0	4/9/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.943	1.2	LANL Reg BG LVL	0.414	2.3	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	130	158	5/17/2005	5.95	20.2	10.3	158	Sandia Canyon	Regional Top	R-11	855.0	4/9/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	10.7	1	LANL Reg BG LVL	4.59	2.3	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	

Table 1. NMED 5-25 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy 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	Analy Meth Code	Lab Code	Comment
C4	117	138	8/30/2007	68	408	346.5	138	Sandia Canyon	Regional Deep	R-35a	1013.1	4/1/2025	REG	F	INIT	Metals	Barium	Ba	320	0.9	LANL Reg BG LVL	38.1	8.4	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	116	138	8/30/2007	5.97	8.54	6.56	138	Sandia Canyon	Regional Deep	R-35a	1013.1	4/1/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	8.54	1.3	LANL Reg BG LVL	2.7	3.2	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	50	54	10/9/2008	44.2	110	94.85	54	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Metals	Barium	Ba	109	1.1	LANL Reg BG LVL	38.1	2.9	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	50	54	10/9/2008	22.2	62.8	54.3	54	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Metals	Calcium	Ca	52.2	1	LANL Reg BG LVL	17.03	3.1	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	51	55	10/9/2008	28.7	55.6	47.5	55	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	51.7	1.1	LANL Reg BG LVL	2.7	19.1	0.670	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C4	50	63	10/9/2008	600	1240	830	63	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Metals	Chromium	Cr	627	0.8	LANL Reg BG LVL	7.48	83.8	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	50	54	10/9/2008	94.3	240	198	54	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Geninorg	Hardness	Hardness	198	1	LANL Reg BG LVL	67.1	3	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
C4	50	54	10/9/2008	9.45	20.3	15.15	54	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Metals	Magnesium	Mg	16.5	1.1	LANL Reg BG LVL	4.18	3.9	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	50	54	10/9/2008	8.8	34	23.5	54	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Metals	Nickel	Ni	25.9	1.1	LANL Reg BG LVL	2.9	8.9	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	51	55	10/9/2008	0.057	7.03	5.44	55	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.86	0.9	LANL Reg BG LVL	0.769	6.3	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	51	55	10/9/2008	0.873	1.46	1.16	55	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	1.00	0.9	LANL Reg BG LVL	0.414	2.4	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	51	55	10/9/2008	60.6	91	80.1	55	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	82.0	1	LANL Reg BG LVL	4.59	17.9	1.33	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C4	51	55	10/9/2008	180	394	351	55	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	361	1	LANL Reg BG LVL	161	2.2	2.38	mg/L	1.00	—	NQ	NQ	EPA:160.1	GELC	
C4	50	54	10/9/2008	1.95	36.3	5.74	51	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Metals	Vanadium	V	34.9	6.1	LANL Reg BG LVL	11.4	3.1	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	113	120	2/17/2009	1.99	21.9	18.75	120	Mortandad Canyon	Regional Top	R-44 S1[b]	895.0	4/15/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	21.6	1.2	LANL Reg BG LVL	2.7	8	0.268	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	113	120	2/17/2009	0.536	109	35	93	Mortandad Canyon	Regional Top	R-44 S1	895.0	4/15/2025	REG	F	INIT	Metals	Nickel	Ni	15.0	0.4	LANL Reg BG LVL	2.9	5.2	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	112	119	2/17/2009	0.123	3.86	2.38	118	Mortandad Canyon	Regional Top	R-44 S1	895.0	4/15/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.69	1.1	LANL Reg BG LVL	0.769	3.5	0.170	mg/L	10.0	—	J	I6b	EPA:353.2	GELC	
C4	113	120	2/17/2009	2.76	21.4	18.9	120	Mortandad Canyon	Regional Top	R-44 S1	895.0	4/15/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	19.0	1	LANL Reg BG LVL	4.59	4.1	0.532	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	118	129	2/28/2009	3	21.5	12.5	129	Mortandad Canyon	Regional Top	R-45 S1	880.0	4/9/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	19.0	1.5	LANL Reg BG LVL	2.7	7	0.134	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	118	129	2/28/2009	0.535	13.8	5.745	114	Mortandad Canyon	Regional Top	R-45 S1	880.0	4/9/2025	REG	F	INIT	Metals	Nickel	Ni	8.34	1.5	LANL Reg BG LVL	2.9	2.9	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	118	129	2/28/2009	0.256	4.1	2.95	129	Mortandad Canyon	Regional Top	R-45 S1	880.0	4/9/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.07	1	LANL Reg BG LVL	0.769	4	0.0850	mg/L	5.00	—	J	I6a	EPA:353.2	GELC	
C4	118	129	2/28/2009	4.1	26.6	14.8	129	Mortandad Canyon	Regional Top	R-45 S1	880.0	4/9/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	18.7	1.3	LANL Reg BG LVL	4.59	4.1	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	117	126	3/5/2009	2.74	8.15	5.67	126	Mortandad Canyon	Regional Deep	R-45 S2[c]	974.9	4/9/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	5.62	1	LANL Reg BG LVL	2.7	2.1	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	117	131	3/5/2009	6.1	69.1	42.15	130	Mortandad Canyon	Regional Deep	R-45 S2	974.9	4/9/2025	REG	F	INIT	Metals	Chromium	Cr	37.7	0.9	LANL Reg BG LVL	7.48	5	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	118	127	3/6/2010	4.68	22.4	17.6	127	Mortandad Canyon	Regional Top	R-50 S1	1077.0	4/8/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	22.3	1.3	LANL Reg BG LVL	2.7	8.3	0.268	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	119	128	3/6/2010	1.51	50.2	7.335	128	Mortandad Canyon	Regional Top	R-50 S1	1077.0	4/8/2025	REG	F	INIT	Metals	Nickel	Ni	11.1	1.5	LANL Reg BG LVL	2.9	3.8	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	119	129	3/6/2010	0.398	3.5	2.52	129	Mortandad Canyon	Regional Top	R-50 S1	1077.0	4/8/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.22	1.3	LANL Reg BG LVL	0.769	4.2	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	118	127	3/6/2010	7.22	21.5	18.4	127	Mortandad Canyon	Regional Top	R-50 S1	1077.0	4/8/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	20.6	1.1	LANL Reg BG LVL	4.59	4.5	0.532	mg/L	4.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	103	117	5/20/2011	2.94	6.8	3.95	117	Mortandad Canyon	Regional Top	R-61 S1	1125.0	4/14/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.54	1.7	LANL Reg BG LVL	2.7	2.4	0.0670	mg/L	1.00	—	J	I6b	SW-846:9056A	GELC	
C4	103	117	5/20/2011	2.03	90.8	35.6	116	Mortandad Canyon	Regional Top	R-61 S1	1125.0	4/14/2025	REG	F	INIT	Metals	Chromium	Cr	65.7	1.8	LANL Reg BG LVL	7.48	8.8	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	103	117	5/20/2011	0.427	3.51	2.43	117	Mortandad Canyon	Regional Top	R-61 S1	1125.0	4/14/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.98	1.2	LANL Reg BG LVL	0.769	3.9	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	102	116	5/20/2011	2.96	19.4	12.45	116	Mortandad Canyon	Regional Top	R-61 S1	1125.0	4/14/2025	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	17.2	1.4	LANL Reg BG LVL	0.414	41.5	0.250	µg/L	5.00	—	NQ	NQ	SW-846:6850	GELC	
C4	103	117	5/20/2011	3.27	11.3	6.96	117	Mortandad Canyon	Regional Top	R-61 S1	1125.0	4/14/2025	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	—	NQ	NQ	SW-846:9056A	GELC	
C4	48	53	8/4/2020	0.208	3.02	2.45	53	Mortandad Canyon	Regional Top	R-70 S1[d]	872.8	4/16/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.45	1	LANL Reg BG LVL	0.769	3.2	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	47	51	8/4/2020	10.7	19.3	14.8	51	Mortandad Canyon	Regional Deep	R-70 S2[d]	949.8	4/16/2025	FD	F	INIT	Geninorg	Chloride	Cl(-1)	13.3	0.9	LANL Reg BG LVL	2.7	4.9	0.134	mg/L	2.00	—	J	I6b	SW-846:9056A	GELC	
C4	47	51	8/4/2020	10.7	19.3	14.8	51	Mortandad Canyon	Regional Deep	R-70 S2[d]	949.8	4/16/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	13.5	0.9	LANL Reg BG LVL	2.7	5	0.134	mg/L	2.00	—	J	I6b	SW-846:9056A	GELC	
C4	47	51	8/4/2020	131	272	190	51	Mortandad Canyon	Regional Deep	R-70 S2[d]	949.8	4/16/2025	FD	F	INIT	Metals	Chromium	Cr	161	0.8	LANL Reg BG LVL	7.48	21.5	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	47	51	8/4/2020	131	272	190	51	Mortandad Canyon	Regional Deep	R-70 S2[d]	949.8	4/16/2025	REG	F	INIT	Metals	Chromium	Cr	158	0.8	LANL Reg BG LVL	7.48	21.1	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	47	51	8/4/2020	2.59	4.91	3.66	51	Mortandad Canyon	Regional Deep	R-70 S2	949.8	4/16/2025	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.14	0.9	LANL Reg BG LVL	0.769	4.1	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	47	51	8/4/2020	2.59	4.91	3.66	51	Mortandad Canyon	Regional Deep	R-70 S2[d]	949.8	4/16/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.48	1	LANL Reg BG LVL	0.769	4.5	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	

Table 1. NMED 5-25 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy 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	Analy Meth Code	Lab Code	Comment
C4	47	51	8/4/2020	17.5	32.6	23.5	51	Mortandad Canyon	Regional Deep	R-70 S2[d]	949.8	4/16/2025	FD	F	INIT	Geninorg	Sulfate	SO4(-2)	20.2	0.9	LANL Reg BG LVL	4.59	4.4	0.266	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	47	51	8/4/2020	17.5	32.6	23.5	51	Mortandad Canyon	Regional Deep	R-70 S2[d]	949.8	4/16/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	20.4	0.9	LANL Reg BG LVL	4.59	4.4	0.266	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	27	33	1/30/2022	4.46	7.13	5.62	33	Sandia Canyon	Regional Top	R-71 S1[d]	1285.0	4/7/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.60	1	LANL Reg BG LVL	0.769	7.3	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	28	32	1/23/2022	3.87	5.54	4.975	32	Sandia Canyon	Regional Deep	R-71 S2[d]	1349.7	4/7/2025	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.22	1	LANL Reg BG LVL	0.769	6.8	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	28	32	1/23/2022	3.87	5.54	4.975	32	Sandia Canyon	Regional Deep	R-71 S2[d]	1349.7	4/7/2025	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.11	1	LANL Reg BG LVL	0.769	6.6	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	4	5	9/10/2024	13.2	16.5	15.9	5	Mortandad Canyon	Regional Top	R-76	940	4/17/2025	REG	F	INIT	Geninorg	Chloride	Cl(-1)	15.6	1	LANL Reg BG LVL	2.7	5.8	0.134	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C4	4	5	9/10/2024	71.9	192	131	5	Mortandad Canyon	Regional Top	R-76	940	4/17/2025	REG	F	INIT	Metals	Chromium	Cr	121	0.9	LANL Reg BG LVL	7.48	16.2	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	4	5	9/10/2024	19.8	24.4	22.2	5	Mortandad Canyon	Regional Top	R-76	940	4/17/2025	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	22.1	1	LANL Reg BG LVL	4.59	4.8	0.266	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C5	27	28	11/04/2021	68.8	167	124	28	Mortandad Canyon	Regional Top	CRPZ-1	1122.9	4/11/2025	REG	F	INIT	Metals	Chromium	Cr	93.2	0.8	NM GW STD	50	1.9	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	

[a] — = Lab qualifier not applicable.

[b] S1 = Screen 1.

[c] S2 = Screen 2.

[d] Data pertaining to a well drilled at a target angle from the vertical. Depth value represents linear feet along (down) the borehole.

Table 2: NMED 5-25 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Analy 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	Analy Meth Code	Lab Code	Comment
XC4scr	27	28	11/10/2021	0.372	0.733	0.52	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.446	0.9	Reg-Scr_95	0.067	6.7	0.0670	mg/L	1.00	—[a]	NQ	NQ	SW-846:9056A	GELC	
XC4scr	27	28	11/10/2021	204	279	244	28	Mortandad Canyon	Regional Top	CRPZ-2A	909.8	4/16/2025	REG	F	INIT	Metals	Strontium	Sr	228	0.9	Reg-Scr_95	74.4	3.1	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	26	27	11/9/2021	0.0998	0.185	0.155	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Geninorg	Bromide	Br(-1)	0.146	0.9	Reg-Scr_95	0.067	2.2	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC4scr	26	27	11/9/2021	0.0998	0.185	0.155	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.144	0.9	Reg-Scr_95	0.067	2.1	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC4scr	26	27	11/9/2021	28.5	37.6	33.6	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Metals	Calcium	Ca	33.7	1	Reg-Scr_95	14.5	2.3	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	26	27	11/9/2021	28.5	37.6	33.6	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Metals	Calcium	Ca	33.4	1	Reg-Scr_95	14.5	2.3	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	26	27	11/9/2021	101	134	121	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Geninorg	Hardness	Hardness	119	1	Reg-Scr_95	51	2.3	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
XC4scr	26	27	11/9/2021	101	134	121	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Geninorg	Hardness	Hardness	118	1	Reg-Scr_95	51	2.3	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
XC4scr	26	27	11/9/2021	7.24	10.2	8.78	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	FD	F	INIT	Metals	Magnesium	Mg	8.44	1	Reg-Scr_95	4.11	2.1	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	26	27	11/9/2021	7.24	10.2	8.78	27	Mortandad Canyon	Regional Top	CRPZ-3	939.4	4/15/2025	REG	F	INIT	Metals	Magnesium	Mg	8.38	1	Reg-Scr_95	4.11	2	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	27	27	11/22/2021	6.95	9.78	8.2	27	Mortandad Canyon	Regional Deep	CRPZ-5	976	4/14/2025	REG	F	INIT	Metals	Magnesium	Mg	8.35	1	Reg-Scr_95	4.11	2	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	117	138	8/30/2007	20.6	54.5	40.45	132	Sandia Canyon	Regional Deep	R-35a	1013.1	4/1/2025	REG	F	INIT	Metals	Boron	B	44.5	1.1	Reg-Scr_95	18.7	2.4	15.0	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC4scr	117	138	8/30/2007	137	199	168	138	Sandia Canyon	Regional Deep	R-35a	1013.1	4/1/2025	REG	F	INIT	Metals	Strontium	Sr	172	1	Reg-Scr_95	74.4	2.3	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	51	55	10/9/2008	0.102	0.443	0.289	54	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.394	1.4	Reg-Scr_95	0.067	5.9	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
XC4scr	49	53	10/9/2008	120	241	206	53	Mortandad Canyon	Regional Top	R-42	931.8	4/17/2025	REG	F	INIT	Metals	Strontium	Sr	207	1	Reg-Scr_95	74.4	2.8	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	113	120	2/17/2009	0.0757	0.203	0.149	75	Mortandad Canyon	Regional Top	R-44 S1[b]	895.0	4/15/2025	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.155	1	Reg-Scr_95	0.067	2.3	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC4scr	118	127	3/6/2010	0.0691	0.545	0.142	105	Mortandad Canyon	Regional Top	R-50 S1	1077.0	4/8/2025	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.141	1	Reg-Scr_95	0.067	2.1	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	

[a] — = Lab qualifier not applicable.

[b] S1 = Screen 1.