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Date: JAN 23 2017
Refer To: ADEM-17-0012
LAUR: 17-20309
Locates Action No.: n/a

John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Monthly Notification of Groundwater Data Reviewed in January 2017

This letter is Los Alamos National Laboratory's (LANL's) written submission in accordance with Section XXVI of the June 2016 Compliance Order on Consent (Consent Order). LANL is working towards updating its data screening procedures to incorporate the screening requirements in Section IX of the 2016 Consent Order. Therefore, the screening levels used in this report are those specified in Section IV.A.3.g of the March 2005 Consent Order. Members of LANL's Associate Directorate for Environmental Management met on January 12, 2017, to review new groundwater data received in December 2016. This report was prepared by comparing the data against groundwater cleanup levels as defined in Section VIII.A.1 of the March 2005 Consent Order. For comparison with U.S. Environmental Protection Agency (EPA) tap water standards, the carcinogenic risk was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the May 2016 EPA regional screening levels.

1-Day Notification

There was one instance of a contaminant detected at a concentration that exceeded the New Mexico Water Quality Control Commission standard or federal maximum contaminant level at locations where contaminants have not been previously detected above the respective standard (based on samples collected since June 14, 2007).

In a filtered sample collected on November 08, 2016, from intermediate well MCOI-5, nitrate-nitrite as nitrogen was measured at 10.2 mg/L, above the 10-mg/L EPA maximum contaminant level.

One-day notification of this result by telephone occurred on January 12, 2017.

15-Day Notification

The required information for the contaminants and other chemical parameters that meet the six reporting criteria requiring written notification within 15 days is given in the accompanying report and table.

If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
Environmental Remediation Program
Los Alamos National Laboratory

Sincerely,

David S. Rhodes, Director
Office of Quality and Regulatory Compliance
Environmental Management
Los Alamos Field Office

BR/DR/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in January 2017 That Meet Notification Requirements (EP2017-0011)

Cy: (Letter and CD and/or DVD)
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SUMMARY OF GROUNDWATER DATA REVIEWED IN JANUARY 2017
THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides preliminary information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by Los Alamos National Laboratory (the Laboratory) under its interim monitoring plan and contains results for chemical constituents that meet the six screening criteria laid out in the March 2005 Compliance Order on Consent (Consent Order). The report covers groundwater samples taken from wells or springs (listed in the accompanying table) that provide surveillance of the groundwater zones indicated in the table.

The report includes one table, *Table 1: NMED 12-16 Groundwater Report*. This table contains values which are detected for the first time since June 14, 2007, or detections of concentrations meeting other screening criteria since that time (as specified in the March 2005 Consent Order). These reported data may be similar to data gathered before June 14, 2007.

This table includes the following:

- Additional comments on results that appear to be exceptional based on consideration of monitoring data acquired before the current results (using statistics described below)
- Supplemental information summarizing monitoring results obtained before the current results
- 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.

In accordance with the March 2005 Consent Order, the screening levels used include the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), the New Mexico groundwater standards, and the EPA regional screening levels for tap water (for compounds having no other regulatory standard). The EPA regional screening levels for tap water are either for cancer (10^{-6} excess risk) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values to achieve 10^{-5} excess cancer risk as indicated in Section VIII.A.1 of the March 2005 Consent Order. This report was prepared using the May 2016 EPA regional screening levels.

Background levels applied in Criteria 2 and 5 are the NMED-approved 95% upper tolerance limits for background for each groundwater zone as set forth in the "Groundwater Background Investigation Report", Rev 3, prepared under Section IV.A.3.d of the March 2005 Consent Order.

DESCRIPTION OF TABLE

1-Day Notification Requirement

The CA value is used in the Criteria Code column of the table. The CA value represents the data that show detection of a contaminant in a well screen interval or spring at a concentration that exceeds either the New Mexico Water Quality Control Commission water quality standard or the federal maximum contaminant level (MCL) if that contaminant has not previously exceeded such water quality standard or

MCL in the well screen interval or spring. The Laboratory 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

The table is divided into separate categories that correspond to the six screening criteria in the March 2005 Consent Order. Some data meet more than one of the criteria and appear in the table multiple times. The table also presents only the instances where the results exceed criteria; therefore, all six criteria may not appear in the table.

The criteria 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 exceeds either one-half the New Mexico water quality standard or one-half the federal maximum contaminant level, or if there is no such standard for the contaminant, one-half the EPA Region 6 human health medium-specific screening level for tap water (now the EPA regional screening levels 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 perchlorate in a spring or screened interval of a well at a concentration of 2 µg/L or greater if perchlorate at such concentration has not previously been detected in the spring or screened interval.

C5. 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.

C6. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal MCL and that has increased for the third consecutive sampling of that spring or screened interval.

The next seven columns of the table give information on monitoring results obtained before the current result. The columns provide summary statistics for the samples collected since January 1, 2000, for the same analyte and field preparation (for example, filtered samples). The information includes the date of the first sampling event included in the statistics; the numbers 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:

Hdr 1—canyon where monitoring location is found

Zone—groundwater zone sampled by monitoring location (such as alluvial spring)

Location—monitoring location name

Screen Depth—depth of top of well screen in feet (0 for springs, –1 if unknown)

Start Date—sample date

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

Fld Prep Code—identifies whether samples are filtered or unfiltered

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 Qual Code—analytical laboratory qualifiers indicating analytical quality of the sample

Validation Flag—secondary validation qualifier

Validation Reason Code—concatenated secondary validation codes explaining assignment of qualifiers

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—comment on the analytical result

Table 1: NMED 12-16 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	18	25	2/19/2009	3.53	9.8	6.665	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-39	859	10/26/2016	REG	UF	RE	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	3.53	0.5	EPA MCL	6	0.6	3.33	ug/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	2	2	12/3/2015	0.0987	0.0987	0.0987	1	Sandia Canyon	Regional	R-67	1242.6	11/16/2016	REG	UF	INIT	HEXP	RDX	121-82-4	0.0987	1	EPA TAP SCRN LVL	7	0	0.0879	ug/L	2	J	J-	HE9	SW-846:8321A_MOD	GELC	The result is J-flagged, and from diluted sample.
C2	39	44	6/9/2005	0.088	0.088	0.088	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	FD	F	INIT	METALS	Mercury	Hg	0.088	1	LANL Int BG LVL	0.06	1.5	0.067	ug/L	1	J	J	J_LAB	EPA:245.2	GELC	The constituent in primary both unfiltered and filtered samples from the same sampling event were nondetected.
C2	29	30	1/11/2007	2.84	3.33	3.085	2	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	METALS	Tin	Sn	3.33	1.1	LANL Int BG LVL	3.26	1	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	31	39	9/12/2005	99	196	140	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-1	1031.12	11/15/2016	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	196	1.4	LANL Reg BG LVL	191.7	1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C2	39	45	5/25/2005	106	216	154	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/15/2016	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	216	1.4	LANL Reg BG LVL	191.7	1.1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C2	34	42	8/29/2007	0.731	3.29	1.65	34	Sandia Canyon	Regional	R-35b	825.4	11/9/2016	REG	F	INIT	METALS	Nickel	Ni	3.29	2	LANL Reg BG LVL	3.09	1.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C2	31	34	11/10/2008	0.0672	0.101	0.0756	14	Sandia Canyon	Regional	R-43 S2	969.1	11/14/2016	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.101	1.3	LANL Reg BG LVL	0.1	1	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C2	26	27	3/5/2009	120	194	156	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	11/17/2016	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	194	1.2	LANL Reg BG LVL	191.7	1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C3	18	25	2/19/2009	3.53	9.8	6.665	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-39	859	10/26/2016	REG	UF	RE	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	3.53	0.5	EPA MCL	6	0.6	3.33	ug/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C5	64	73	3/12/2001	0.726	1.79	1.23	72	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/2016	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.976	0.8	LANL Avl BG LVL	0.27	3.6	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	64	73	3/12/2001	0.726	1.79	1.23	72	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/2016	REG	F	INIT	GENINORG	Fluoride	F(-1)	1.05	0.9	LANL Avl BG LVL	0.27	3.9	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	46	53	4/28/2005	6.2	47.5	11.1	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/2016	REG	F	INIT	GENINORG	Perchlorate	ClO4	6.2	0.6	LANL Avl BG LVL	0.05	124	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	46	53	4/28/2005	6.2	47.5	11.1	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/2016	REG	F	INIT	GENINORG	Perchlorate	ClO4	6.29	0.6	LANL Avl BG LVL	0.05	125.8	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	33	34	8/7/2001	0.04	0.432	0.2775	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/2016	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.247	0.9	LANL Avl BG LVL	0.05	4.9	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	39	44	6/9/2005	0.083	0.214	0.1355	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.198	1.5	LANL Int BG LVL	0.03	6.6	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	39	44	6/9/2005	0.083	0.214	0.1355	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.212	1.6	LANL Int BG LVL	0.03	7.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	39	49	6/9/2005	1.1	13	4.32	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	FD	F	INIT	METALS	Chromium	Cr	9.59	2.2	LANL Int BG LVL	1	9.6	3	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	39	49	6/9/2005	1.1	13	4.32	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	REG	F	INIT	METALS	Chromium	Cr	9.6	2.2	LANL Int BG LVL	1	9.6	3	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	39	44	6/9/2005	3.17	10.2	4.675	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.2	2.2	LANL Int BG LVL	2.41	4.2	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	Nitrate-Nitrite as Nitrogen concentration in this well has increased for third consecutive time. Current result is the maximium value detected.

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	39	44	6/9/2005	3.17	10.2	4.675	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10	2.1	LANL Int BG LVL	2.41	4.1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	39	44	6/9/2005	68.7	170	90.4	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	FD	F	INIT	GENINORG	Perchlorate	ClO4	170	1.9	LANL Int BG LVL	0.05	3400	12.5	ug/L	250		NQ	NQ	SW-846:6850	GELC	The result is the highest value so far.
C5	39	44	6/9/2005	68.7	170	90.4	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/8/2016	REG	F	INIT	GENINORG	Perchlorate	ClO4	164	1.8	LANL Int BG LVL	0.05	3280	10	ug/L	200		NQ	NQ	SW-846:6850	GELC	
C5	45	64	6/15/2005	25.4	56	44.3	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	METALS	Boron	B	53.9	1.2	LANL Int BG LVL	15.12	3.6	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	45	64	6/15/2005	0.212	0.703	0.575	61	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.525	0.9	LANL Int BG LVL	0.03	17.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	45	64	6/15/2005	42.8	75.5	63.9	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Calcium	Ca	66.2	1	LANL Int BG LVL	17.31	3.8	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	45	64	6/15/2005	21.2	64.8	55.15	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Chloride	Cl(-1)	56.7	1	LANL Int BG LVL	7.78	7.3	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	45	67	6/15/2005	29.4	86.6	55.1	67	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	METALS	Chromium	Cr	86.6	1.6	LANL Int BG LVL	1	86.6	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	The result is the highest value so far.
C5	45	64	6/15/2005	8.49	15.7	13	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Magnesium	Mg	13.2	1	LANL Int BG LVL	6.12	2.2	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	45	64	6/15/2005	2.9	41.8	26.75	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	METALS	Nickel	Ni	27.8	1	LANL Int BG LVL	1	27.8	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	45	64	6/15/2005	7.62	20.4	9.84	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	9.34	0.9	LANL Int BG LVL	2.41	3.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	45	64	6/15/2005	56.3	246	75.75	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Perchlorate	ClO4	74.7	1	LANL Int BG LVL	0.05	1494	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	45	64	6/15/2005	19.5	29.4	25.6	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Sodium	Na	25.1	1	LANL Int BG LVL	12.19	2.1	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	45	64	6/15/2005	298	497	406.5	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	427	1.1	LANL Int BG LVL	127	3.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	45	64	6/15/2005	15.9	288	30.15	64	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/8/2016	REG	F	INIT	METALS	Zinc	Zn	31.1	1	LANL Int BG LVL	2	15.6	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	30	1/11/2007	72.2	99.4	84.9	29	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	METALS	Boron	B	77.7	0.9	LANL Int BG LVL	15.12	5.1	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	30	1/11/2007	54.5	87.6	69.9	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	GENINORG	Calcium	Ca	56.7	0.8	LANL Int BG LVL	17.31	3.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	30	1/11/2007	80.5	124	91.95	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	GENINORG	Chloride	Cl(-1)	118	1.3	LANL Int BG LVL	7.78	15.2	1.34	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C5	29	30	1/11/2007	44.9	97	76.65	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	METALS	Molybdenum	Mo	76	1	LANL Int BG LVL	2	38	0.3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	30	1/11/2007	2.96	8.1	5.34	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	METALS	Nickel	Ni	2.96	0.6	LANL Int BG LVL	1	3	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	30	1/11/2007	0.613	1.58	0.958	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.807	0.8	LANL Int BG LVL	0.05	16.1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	29	30	1/11/2007	50.7	65.1	55.65	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	GENINORG	Sodium	Na	61.8	1.1	LANL Int BG LVL	12.19	5.1	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	30	1/11/2007	357	536	486	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	504	1	LANL Int BG LVL	127	4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	29	30	1/11/2007	0.404	1.45	0.879	29	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	1.32	1.5	LANL Int BG LVL	0.08	16.5	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	29	30	1/11/2007	1.53	3.09	2.35	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/15/2016	REG	F	INIT	GENINORG	Uranium	U	1.53	0.7	LANL Int BG LVL	0.72	2.1	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	32	42	10/21/2008	0.194	0.683	0.572	41	Sandia Canyon	Intermediate	SCI-2	548	11/18/2016	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.651	1.1	LANL Int BG LVL	0.03	21.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	

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C5	32	44	10/21/2008	59.5	73.6	67.25	44	Sandia Canyon	Intermediate	SCI-2	548	11/18/2016	REG	F	INIT	GENINORG	Calcium	Ca	71.1	1.1	LANL Int BG LVL	17.31	4.1	0.05	mg/L	1		J-	I6a	SW-846:6010C	GELC	
C5	32	42	10/21/2008	53.4	93	62.65	42	Sandia Canyon	Intermediate	SCI-2	548	11/18/2016	REG	F	INIT	GENINORG	Chloride	Cl(-1)	93	1.5	LANL Int BG LVL	7.78	12	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	32	49	10/21/2008	354	658	471	49	Sandia Canyon	Intermediate	SCI-2	548	11/18/2016	REG	F	INIT	METALS	Chromium	Cr	354	0.8	LANL Int BG LVL	1	354	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	31	42	10/21/2008	13.1	17.3	15.6	42	Sandia Canyon	Intermediate	SCI-2	548	11/18/2016	REG	F	INIT	GENINORG	Magnesium	Mg	16.5	1.1	LANL Int BG LVL	6.12	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	32	44	10/21/2008	14.5	19.6	16.95	44	Sandia Canyon	Intermediate	SCI-2	548	11/18/2016	REG	F	INIT	METALS	Nickel	Ni	15.6	0.9	LANL Int BG LVL	1	15.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	32	42	10/21/2008	0.899	1.12	0.977	42	Sandia Canyon	Intermediate	SCI-2	548	11/18/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.972	1	LANL Int BG LVL	0.05	19.4	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	32	44	10/21/2008	264	353	323.5	44	Sandia Canyon	Intermediate	SCI-2	548	11/18/16	REG	F	INIT	METALS	Strontium	Sr	353	1.1	LANL Int BG LVL	154.8	2.3	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	32	42	10/21/2008	77.9	103	88.7	42	Sandia Canyon	Intermediate	SCI-2	548	11/18/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	88.2	1	LANL Int BG LVL	40.03	2.2	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	32	43	10/21/2008	354	796	421	43	Sandia Canyon	Intermediate	SCI-2	548	11/18/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	467	1.1	LANL Int BG LVL	127	3.7	3.4	mg/L	1		J	I10b	EPA:160.1	GELC	
C5	32	44	10/21/2008	1.2	2.15	1.685	44	Sandia Canyon	Intermediate	SCI-2	548	11/18/16	REG	F	INIT	GENINORG	Uranium	U	1.95	1.2	LANL Int BG LVL	0.72	2.7	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	47	57	5/17/2005	13.5	34.9	21.2	57	Sandia Canyon	Regional	R-11	855	11/16/16	REG	F	INIT	METALS	Chromium	Cr	16.1	0.8	LANL Reg BG LVL	5.75	2.8	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	46	54	5/17/2005	2.27	7.43	5.185	54	Sandia Canyon	Regional	R-11	855	11/16/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.19	1	LANL Reg BG LVL	0.89	5.8	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	43	51	2/24/2000	2.6	18.2	10.05	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/15/16	REG	F	INIT	METALS	Chromium	Cr	14.2	1.4	LANL Reg BG LVL	5.75	2.5	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	43	50	2/24/2000	1.35	3.31	2.205	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/15/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.09	0.9	LANL Reg BG LVL	0.89	2.3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	

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C5	39	45	5/25/2005	5.34	10.8	7.06	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/15/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	10.8	1.5	LANL Reg BG LVL	0.46	23.5	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	The result is the highest value. Perchlorate concentration has steadily increased.
C5	25	28	3/10/2004	113	253	181	28	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S2	1147.1	11/02/16	REG	F	INIT	METALS	Barium	Ba	223	1.2	LANL Reg BG LVL	56.83	3.9	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	25	28	3/10/2004	38.5	382	72.45	28	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S2	1147.1	11/02/16	REG	F	INIT	METALS	Manganese	Mn	80.9	1.1	LANL Reg BG LVL	2.94	27.5	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	23	28	3/10/2004	1.18	51.7	2.505	26	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S2	1147.1	11/02/16	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	2.37	0.9	LANL Reg BG LVL	0.33	7.2	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	34	35	8/30/2007	68	389	346	35	Sandia Canyon	Regional	R-35a	1013.1	11/09/16	REG	F	INIT	METALS	Barium	Ba	340	1	LANL Reg BG LVL	56.83	6	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	34	42	8/29/2007	10.8	62.3	28.75	42	Sandia Canyon	Regional	R-35b	825.4	11/09/16	REG	F	INIT	METALS	Zinc	Zn	10.9	0.4	LANL Reg BG LVL	3.89	2.8	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	31	36	3/12/2008	1.25	6.8	2.375	36	Sandia Canyon	Regional	R-36	766.9	11/10/16	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.42	1	LANL Reg BG LVL	0.89	2.7	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	31	36	3/12/2008	1.25	6.8	2.375	36	Sandia Canyon	Regional	R-36	766.9	11/10/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.42	1	LANL Reg BG LVL	0.89	2.7	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	30	34	3/12/2008	0.845	1.74	1.55	34	Sandia Canyon	Regional	R-36	766.9	11/10/16	FD	F	INIT	GENINORG	Perchlorate	ClO4	1.51	1	LANL Reg BG LVL	0.46	3.3	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	30	34	3/12/2008	0.845	1.74	1.55	34	Sandia Canyon	Regional	R-36	766.9	11/10/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.49	1	LANL Reg BG LVL	0.46	3.2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	31	35	3/12/2008	23.7	91.1	53.5	35	Sandia Canyon	Regional	R-36	766.9	11/10/16	FD	F	INIT	METALS	Zinc	Zn	23.7	0.4	LANL Reg BG LVL	3.89	6.1	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	31	35	3/12/2008	23.7	91.1	53.5	35	Sandia Canyon	Regional	R-36	766.9	11/10/16	REG	F	INIT	METALS	Zinc	Zn	23.7	0.4	LANL Reg BG LVL	3.89	6.1	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	

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C5	32	36	11/5/2008	3.6	8.84	6.535	36	Sandia Canyon	Regional	R-43 S1	903.9	11/14/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.35	1.3	LANL Reg BG LVL	3.57	2.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	32	41	11/5/2008	2.35	167	46.35	38	Sandia Canyon	Regional	R-43 S1	903.9	11/14/16	REG	F	INIT	METALS	Chromium	Cr	167	3.6	LANL Reg BG LVL	5.75	29	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	The result is the highest value. Chromium concentration has steadily increased.
C5	32	35	11/5/2008	5.01	6.15	5.42	34	Sandia Canyon	Regional	R-43 S1	903.9	11/14/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.19	1	LANL Reg BG LVL	0.89	5.8	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	32	36	11/5/2008	8.77	21	12.55	36	Sandia Canyon	Regional	R-43 S1	903.9	11/14/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	16.6	1.3	LANL Reg BG LVL	7.2	2.3	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	31	33	11/10/2008	0.389	5.4	1.34	33	Sandia Canyon	Regional	R-43 S2	969.1	11/14/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.48	2.6	LANL Reg BG LVL	0.89	3.9	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	28	32	2/17/2009	7.34	21.8	14.15	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44 S1	895	11/07/16	REG	F	INIT	METALS	Chromium	Cr	14.1	1	LANL Reg BG LVL	5.75	2.5	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	26	31	2/28/2009	8.4	42.3	20.9	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/17/16	REG	F	INIT	METALS	Chromium	Cr	42.3	2	LANL Reg BG LVL	5.75	7.4	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	The result is the highest value. Chromium concentration has steadily increased.
C5	26	27	2/28/2009	0.256	3.47	2.61	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/17/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.88	1.1	LANL Reg BG LVL	0.89	3.2	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	26	31	3/5/2009	6.1	20.1	10.445	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	11/17/16	REG	F	INIT	METALS	Chromium	Cr	20	1.9	LANL Reg BG LVL	5.75	3.5	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	20	23	3/11/2009	2.05	5.29	3.48	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/08/16	REG	F	INIT	METALS	Antimony	Sb	5.06	1.5	LANL Reg BG LVL	1	5.1	1	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	23	26	3/11/2009	0.705	7.67	1.36	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/08/16	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.781	0.6	LANL Reg BG LVL	0.33	2.4	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	28	33	3/6/2010	4.68	10.1	7.53	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/18/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.41	1.1	LANL Reg BG LVL	3.57	2.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	35	3/6/2010	49.8	146	95.4	35	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/18/16	REG	F	INIT	METALS	Chromium	Cr	117	1.2	LANL Reg BG LVL	5.75	20.3	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	34	3/6/2010	0.398	2.72	1.53	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/18/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.79	1.2	LANL Reg BG LVL	0.89	2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	18	24	3/26/2012	1.64	11.7	8.39	24	Sandia Canyon	Regional	R-62	1158.4	11/16/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	10.6	1.3	LANL Reg BG LVL	3.57	3	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	18	24	3/26/2012	104	240	136	24	Sandia Canyon	Regional	R-62	1158.4	11/16/16	REG	F	INIT	METALS	Chromium	Cr	200	1.5	LANL Reg BG LVL	5.75	34.8	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	18	24	3/26/2012	2.56	20.2	14.3	24	Sandia Canyon	Regional	R-62	1158.4	11/16/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	19.6	1.4	LANL Reg BG LVL	7.2	2.7	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	

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C6	39	44	6/9/2005	3.17	10.2	4.675	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/08/16	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.2	2.2	EPA MCL	10	1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	Nitrate-Nitrite as Nitrogen concentration in this well has increased for third consecutive time. Current result is the maximium value detected.
C6	39	45	5/25/2005	5.34	10.8	7.06	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/15/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	10.8	1.5	Consent Order	4	2.7	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	Result is the highest value. Concentration has steadily increased.
C6	32	41	11/5/2008	2.35	167	46.35	38	Sandia Canyon	Regional	R-43 S1	903.9	11/14/16	REG	F	INIT	METALS	Chromium	Cr	167	3.6	NM GW STD	50	3.3	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	The result is the highest value. Chromium concentration has steadily increased.
C6	26	31	2/28/2009	8.4	42.3	20.9	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/17/16	REG	F	INIT	METALS	Chromium	Cr	42.3	2	NM GW STD	50	0.8	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	The result is the highest value. Chromium concentration has steadily increased.
C6	18	24	3/26/2012	104	240	136	24	Sandia Canyon	Regional	R-62	1158.4	11/16/16	REG	F	INIT	METALS	Chromium	Cr	200	1.5	NM GW STD	50	4	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	Was 240 ug/L in 6/26/2014.
CA	39	44	6/9/2005	3.17	10.2	4.675	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/08/16	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.2	2.2	EPA MCL	10	1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	Nitrate-Nitrite as Nitrogen concentration in this well has increased for third consecutive time. Current result is the maximium value detected.