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Date: JUL 25 2016

Refer To: ADESH-16-099

LAUR: 16-24985

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 July 2016

Dear Mr. Kieling:

This letter is Los Alamos National Laboratory's (LANL's) written submission that meets notification requirements presented in Section IV.A.3.g, Notification, of the Compliance Order on Consent (Consent Order). Members of LANL's Associate Directorate for Environmental Management met on July 13, 2016, to review new groundwater data received in June 2016. This report was prepared by comparing the data against groundwater cleanup levels, as defined in Section VIII.A.1 of the 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 November 2015 EPA regional screening levels.

1-Day Notification

There were no instances 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).

Notification was not required because there were no cases of a contaminant detected in a well screen interval or spring at a concentration that exceeded a water quality standard for the first time.

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.

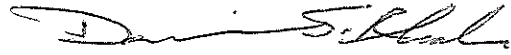
If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

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 July 2016 That Meet Notification Requirements (EP2016-0101)

Cy: (w/enc.)

Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)

Laurie King, EPA Region 6, Dallas, TX
Michelle Hunter, NMED-GWQB
Steve Huddleson, NMED-GWQB
Steve Yanicak, NMED-DOE-OB, MS M894
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Cy: (w/o enc./date-stamped letter emailed)

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Bruce Robinson, ADEM ER Program
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Leslie Dale, ADESH-EPC-CP
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John McCann, ADESH-EPC-DO
Michael Brandt, ADESH
William Mairson, PADOPS
Craig Leasure, PADOPS

SUMMARY OF GROUNDWATER DATA REVIEWED IN JULY 2016 THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides preliminary information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by the 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 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 06-16 Groundwater Report*. This table contains some values that are reported when they are detected for the first time since June 14, 2007, or are greater than other data collected since that time (as specified in the 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 or based on consideration of monitoring data acquired before the current result (using statistics described below)
- Supplemental information summarizing monitoring results obtained before the current result
- 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 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 Consent Order. This report was prepared using the November 2015 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, Revision 3," prepared under Section IV.A.3.d of the Consent Order.

DESCRIPTION OF TABLE

15-Day Notification Requirement

The table is divided into separate categories that correspond to the six screening criteria in the 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 prior to 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 to 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 06-16 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	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 Qual Code	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	2	2	12/03/15	3.47	3.47	3.47	1	Sandia Canyon	Regional	R-67	1242.6	05/10/16	REG	UF	INIT	VOC	Methylene Chloride	75-09-2	3.47	1	EPA MCL	5	0.7	1	ug/L	1	HJ	J-	V9	SW-846:8260B	GELC	The compound was nondetected in the field duplicated sample.
C2	20	24	03/09/06	10	10	10	1	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	05/26/16	REG	F	INIT	METALS	Tin	Sn	10	1	LANL Int BG LVL	3.26	3.1	2.5	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	21	29	03/15/06	7.91	7.91	7.91	1	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	05/26/16	REG	F	INIT	METALS	Tin	Sn	7.91	1	LANL Int BG LVL	3.26	2.4	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	18	26	03/15/06	77	135	117	26	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	05/26/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	130	1.1	LANL Int BG LVL	127	1	3.4	mg/L	1		J	i10b	EPA:160.1	GELC	
C2	16	20	08/31/10	8.06	8.06	8.06	1	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	05/26/16	REG	F	INIT	METALS	Tin	Sn	8.06	1	LANL Int BG LVL	3.26	2.5	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	37	41	06/09/05	3.38	3.38	3.38	1	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	05/06/16	REG	F	INIT	METALS	Tin	Sn	3.38	1	LANL Int BG LVL	3.26	1	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	12	12	08/08/06	3.67	3.67	3.67	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	METALS	Tin	Sn	3.67	1	LANL Int BG LVL	3.26	1.1	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	13	14	08/10/06	18.1	18.1	18.1	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	METALS	Tin	Sn	18.1	1	LANL Int BG LVL	3.26	5.6	2.5	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	40	47	04/18/02	10.7	75.8	14.45	16	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	05/18/16	REG	F	INIT	METALS	Boron	B	75.8	5.2	LANL Reg BG LVL	38.77	2	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	40	47	04/18/02	1.6	1.87	1.735	2	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	05/18/16	REG	F	INIT	METALS	Cobalt	Co	1.87	1.1	LANL Reg BG LVL	0.5	3.7	1	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	38	45	04/18/02	29.3	29.3	29.3	1	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	05/18/16	REG	F	INIT	METALS	Copper	Cu	29.3	1	LANL Reg BG LVL	3	9.8	3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	40	47	04/18/02	2.06	44.4	3.86	7	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	05/18/16	REG	F	INIT	METALS	Manganese	Mn	44.4	11.5	LANL Reg BG LVL	2.94	15.1	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	40	47	04/18/02	1.16	21	1.34	47	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	05/18/16	REG	F	INIT	GENINORG	Potassium	K	21	15.7	LANL Reg BG LVL	2.63	8	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	40	47	04/18/02	9.09	77.7	10.1	47	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-13	958.33	05/18/16	REG	F	INIT	GENINORG	Sodium	Na	77.7	7.7	LANL Reg BG LVL	24.5	3.2	0.1	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	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 Qual Code	Validation Flag	Validation Reason Code	AnyI Meth Code	Lab Code	Comment
C2	28	28	06/24/05	92.9	210	146	28	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-33 S2	1112.4	05/11/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	210	1.4	LANL Reg BG LVL	191.7	1.1	3.4	mg/L	1		J	i10b	EPA:160.1	GELC	Reanalysis result is 170 mg/L, within prior concentrations range.
C2	16	22	04/27/05	3.17	22.1	12.635	2	Pueblo Canyon (includes Acid Canyon)	Regional	R-4	792.9	05/31/16	REG	F	INIT	METALS	Manganese	Mn	3.17	0.3	LANL Reg BG LVL	2.94	1.1	2	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	25	25	02/17/09	0.375	0.461	0.418	25	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-44 S1	895	05/03/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.461	1.1	LANL Reg BG LVL	0.46	1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C3	2	2	12/03/15	3.47	3.47	3.47	1	Sandia Canyon	Regional	R-67	1242.6	05/10/16	REG	UF	INIT	VOC	Methylene Chloride	75-09-2	3.47	1	EPA MCL	5	0.7	1	ug/L	1	HJ	J-	V9	SW-846:8260B	GELC	The compound was nondetected in the field duplicated sample.
C5	56	64	03/12/01	0.11	1.51	1.005	64	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	05/13/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.995	1	LANL Avl BG LVL	0.27	3.7	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	40	46	04/27/05	3.23	31.7	10.025	46	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	05/13/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	3.85	0.4	LANL Avl BG LVL	0.05	77	0.25	ug/L	5		NQ	NQ	SW-846:6850	GELC	
C5	57	65	03/12/01	241	601	312	65	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	05/13/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	281	0.9	LANL Avl BG LVL	139	2	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	62	69	03/12/01	0.726	1.79	1.245	68	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-7	39	05/13/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.94	0.8	LANL Avl BG LVL	0.27	3.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	44	49	04/28/05	6.23	47.5	11.7	49	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-7	39	05/13/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	6.67	0.6	LANL Avl BG LVL	0.05	133.4	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	62	69	03/12/01	220	556	308	69	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-7	39	05/13/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	323	1	LANL Avl BG LVL	139	2.3	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	23	28	06/01/05	51	75.9	60.4	28	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	05/26/16	REG	F	INIT	METALS	Boron	B	70.6	1.2	LANL Int BG LVL	15.12	4.7	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	20	25	06/01/05	0.075	0.117	0.0958	15	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	05/26/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.0958	1	LANL Int BG LVL	0.03	3.2	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	23	28	06/01/05	3.4	24.8	8.735	26	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	05/26/16	REG	F	INIT	METALS	Copper	Cu	10.8	1.2	LANL Int BG LVL	5.32	2	3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	23	28	06/01/05	2.36	12.2	4.675	28	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	05/26/16	REG	F	INIT	METALS	Nickel	Ni	2.42	0.5	LANL Int BG LVL	1	2.4	0.5	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	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 Qual Code	Validation Flag	Validation Reason Code	AnyI Meth Code	Lab Code	Comment
C5	16	20	05/21/07	0.449	0.589	0.523	20	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	05/26/16	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.536	1	LANL Int BG LVL	0.05	10.7	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	23	28	06/01/05	4.9	70.7	12.25	24	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	05/26/16	REG	F	INIT	METALS	Zinc	Zn	31.9	2.6	LANL Int BG LVL	2	15.9	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	22	30	12/15/05	15.4	32.2	22.6	28	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	05/26/16	REG	F	INIT	METALS	Boron	B	32.2	1.4	LANL Int BG LVL	15.12	2.1	15	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	16	24	02/05/07	0.242	0.333	0.2945	24	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	05/26/16	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.301	1	LANL Int BG LVL	0.05	6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	22	30	12/15/05	5.6	29.8	13.5	27	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	05/26/16	REG	F	INIT	METALS	Zinc	Zn	13.5	1	LANL Int BG LVL	2	6.8	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	16	20	08/31/10	60.3	115	66.2	20	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	05/26/16	REG	F	INIT	METALS	Boron	B	60.3	0.9	LANL Int BG LVL	15.12	4	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	15	19	08/31/10	0.331	0.397	0.363	19	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	05/26/16	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.331	0.9	LANL Int BG LVL	0.05	6.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	37	41	06/09/05	0.083	0.163	0.134	35	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	05/06/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.163	1.2	LANL Int BG LVL	0.03	5.4	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	37	46	06/09/05	1.1	13	4.19	40	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	05/06/16	REG	F	INIT	METALS	Chromium	Cr	13	3.1	LANL Int BG LVL	1	13	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	37	41	06/09/05	3.17	6.4	4.53	41	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	05/06/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.4	1.4	LANL Int BG LVL	2.41	2.7	1.7	mg/L	100		NQ	NQ	EPA:353.2	GELC	
C5	37	41	06/09/05	68.7	132	88.3	41	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-5	689.04	05/06/16	REG	F	INIT	GENINORG	Perchlorate	CIO4	98.2	1.1	LANL Int BG LVL	0.05	1964	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	43	62	06/15/05	25.4	56	43.4	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	METALS	Boron	B	55.6	1.3	LANL Int BG LVL	15.12	3.7	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	25.4	56	43.4	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	METALS	Boron	B	54	1.2	LANL Int BG LVL	15.12	3.6	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	0.212	0.703	0.575	59	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.54	0.9	LANL Int BG LVL	0.03	18	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	43	62	06/15/05	0.212	0.703	0.575	59	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.542	0.9	LANL Int BG LVL	0.03	18.1	0.067	mg/L	1		NQ	NQ	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	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 Qual Code	Validation Flag	Validation Reason Code	AnyI Meth Code	Lab Code	Comment
C5	43	62	06/15/05	42.8	75.5	63.9	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Calcium	Ca	62.9	1	LANL Int BG LVL	17.31	3.6	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	42.8	75.5	63.9	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Calcium	Ca	62.5	1	LANL Int BG LVL	17.31	3.6	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	21.2	64.8	54.2	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Chloride	Cl(-1)	56.6	1	LANL Int BG LVL	7.78	7.3	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	43	62	06/15/05	21.2	64.8	54.2	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	55.8	1	LANL Int BG LVL	7.78	7.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	43	65	06/15/05	29.4	81.3	54.2	65	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	METALS	Chromium	Cr	73.5	1.4	LANL Int BG LVL	1	73.5	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	43	65	06/15/05	29.4	81.3	54.2	65	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	METALS	Chromium	Cr	76.5	1.4	LANL Int BG LVL	1	76.5	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	43	62	06/15/05	0.412	0.635	0.528	59	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Fluoride	F(-1)	0.472	0.9	LANL Int BG LVL	0.23	2.1	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	43	62	06/15/05	0.412	0.635	0.528	59	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.466	0.9	LANL Int BG LVL	0.23	2	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	43	62	06/15/05	8.49	15.7	13	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Magnesium	Mg	12.9	1	LANL Int BG LVL	6.12	2.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	8.49	15.7	13	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Magnesium	Mg	12.8	1	LANL Int BG LVL	6.12	2.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	2.9	41.8	24.35	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	METALS	Nickel	Ni	28.2	1.2	LANL Int BG LVL	1	28.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	43	62	06/15/05	2.9	41.8	24.35	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	METALS	Nickel	Ni	29.5	1.2	LANL Int BG LVL	1	29.5	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	43	62	06/15/05	7.62	20.4	9.975	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.75	0.9	LANL Int BG LVL	2.41	3.6	1.7	mg/L	100		NQ	NQ	EPA:353.2	GELC	
C5	43	62	06/15/05	7.62	20.4	9.975	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.79	0.9	LANL Int BG LVL	2.41	3.6	1.7	mg/L	100		NQ	NQ	EPA:353.2	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	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 Qual Code	Validation Flag	Validation Reason Code	AnyI Meth Code	Lab Code	Comment
C5	43	62	06/15/05	56.3	246	77.2	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Perchlorate	CIO4	66.9	0.9	LANL Int BG LVL	0.05	1338	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	43	62	06/15/05	56.3	246	77.2	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Perchlorate	CIO4	68.7	0.9	LANL Int BG LVL	0.05	1374	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	43	62	06/15/05	19.5	29.4	25.6	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Sodium	Na	26.3	1	LANL Int BG LVL	12.19	2.2	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	19.5	29.4	25.6	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Sodium	Na	24.2	0.9	LANL Int BG LVL	12.19	2	0.1	mg/L	1		J+	I6b	SW-846:6010C	GELC	
C5	43	62	06/15/05	298	497	404	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	426	1.1	LANL Int BG LVL	127	3.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	43	62	06/15/05	298	497	404	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	430	1.1	LANL Int BG LVL	127	3.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	43	62	06/15/05	15.9	288	30.15	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	FD	F	INIT	METALS	Zinc	Zn	24.3	0.8	LANL Int BG LVL	2	12.2	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	62	06/15/05	15.9	288	30.15	62	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Intermediate	MCOI-6	686	05/05/16	REG	F	INIT	METALS	Zinc	Zn	24.7	0.8	LANL Int BG LVL	2	12.3	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	13	08/08/06	141	296	168	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	154	0.9	LANL Int BG LVL	52	3	0.33	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C5	12	12	08/08/06	213	250	234.5	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	METALS	Boron	B	213	0.9	LANL Int BG LVL	15.12	14.1	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	13	08/08/06	0.0905	0.179	0.119	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.12	1	LANL Int BG LVL	0.03	4	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	12	12	08/08/06	39.2	53	48.3	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Calcium	Ca	42.3	0.9	LANL Int BG LVL	17.31	2.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	13	08/08/06	42.5	49.9	46.8	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	46.8	1	LANL Int BG LVL	7.78	6	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	12	12	08/08/06	8.46	11.4	10	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	METALS	Nickel	Ni	9.05	0.9	LANL Int BG LVL	1	9.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	13	13	08/08/06	0.234	0.372	0.306	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.29	0.9	LANL Int BG LVL	0.05	5.8	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	12	12	08/08/06	42.6	53	45.6	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Sodium	Na	43.3	0.9	LANL Int BG LVL	12.19	3.6	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	13	08/08/06	331	393	369	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	371	1	LANL Int BG LVL	127	2.9	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	14	14	05/07/05	0.032	1.69	1.17	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	05/31/16	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	1.28	1.1	LANL Int BG LVL	0.08	16	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	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 Qual Code	Validation Flag	Validation Reason Code	AnyI Meth Code	Lab Code	Comment
C5	14	16	08/10/06	150	162	156	16	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	152	1	LANL Int BG LVL	52	2.9	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C5	13	14	08/10/06	84.6	122	101	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	METALS	Boron	B	122	1.2	LANL Int BG LVL	15.12	8.1	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	14	16	08/10/06	0.148	0.279	0.16	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.149	0.9	LANL Int BG LVL	0.03	5	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	13	14	08/10/06	54.8	60	57.9	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Calcium	Ca	59	1	LANL Int BG LVL	17.31	3.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	14	16	08/10/06	34.4	44.9	37.85	16	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	43.9	1.2	LANL Int BG LVL	7.78	5.6	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	13	14	08/10/06	15.1	16.8	15.95	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Magnesium	Mg	16.1	1	LANL Int BG LVL	6.12	2.6	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	14	08/10/06	6.69	9.7	8.63	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	METALS	Nickel	Ni	7.5	0.9	LANL Int BG LVL	1	7.5	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	14	16	08/10/06	0.104	3.45	2.355	16	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.67	0.7	LANL Int BG LVL	0.05	33.4	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	14	16	08/10/06	251	437	321	16	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	349	1.1	LANL Int BG LVL	127	2.7	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	13	14	08/10/06	7.72	10.2	9.315	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	06/02/16	REG	F	INIT	GENINORG	Uranium	U	8.85	1	LANL Int BG LVL	0.72	12.3	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	29	01/11/07	72.2	99.4	85.35	28	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	METALS	Boron	B	72.2	0.8	LANL Int BG LVL	15.12	4.8	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	29	01/11/07	54.5	87.6	70.4	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	GENINORG	Calcium	Ca	59.7	0.8	LANL Int BG LVL	17.31	3.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	29	01/11/07	80.5	124	91.9	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	110	1.2	LANL Int BG LVL	7.78	14.1	1.34	mg/L	20	J	I4a	EPA:300.0	GELC		
C5	28	29	01/11/07	44.9	97	77.3	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	METALS	Molybdenum	Mo	85.7	1.1	LANL Int BG LVL	2	42.9	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	29	01/11/07	3.87	8.1	5.38	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	METALS	Nickel	Ni	3.87	0.7	LANL Int BG LVL	1	3.9	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	29	01/11/07	0.613	1.58	0.969	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.659	0.7	LANL Int BG LVL	0.05	13.2	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	28	29	01/11/07	50.7	65.1	55.5	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	GENINORG	Sodium	Na	58.1	1	LANL Int BG LVL	12.19	4.8	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	29	01/11/07	357	536	485	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	493	1	LANL Int BG LVL	127	3.9	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	28	29	01/11/07	0.404	1.45	0.8685	28	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.994	1.1	LANL Int BG LVL	0.08	12.4	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	28	29	01/11/07	1.7	3.09	2.38	29	Sandia Canyon	Intermediate	SCI-1	358.4	05/13/16	REG	F	INIT	GENINORG	Uranium	U	1.72	0.7	LANL Int BG LVL	0.72	2.4	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	30	40	10/21/08	0.194	0.683	0.55	39	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.643	1.2	LANL Int BG LVL	0.03	21.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	30	42	10/21/08	59.5	73.6	66.9	42	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Calcium	Ca	68	1	LANL Int BG LVL	17.31	3.9	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	30	40	10/21/08	53.4	71.9	61.8	40	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	67.7	1.1	LANL Int BG LVL	7.78	8.7	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	30	47	10/21/08	355	658	489	47	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	METALS	Chromium	Cr	371	0.8	LANL Int BG LVL	1	371	2	ug/L	1	E	NQ	NQ	SW-846:6020	GELC	
C5	29	40	10/21/08	13.1	17.3	15.55	40	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Magnesium	Mg	15.1	1	LANL Int BG LVL	6.12	2.5	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	

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C5	30	42	10/21/08	14.5	19.6	17	42	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	METALS	Nickel	Ni	19.2	1.1	LANL Int BG LVL	1	19.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	30	40	10/21/08	0.899	1.12	0.981	40	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.938	1	LANL Int BG LVL	0.05	18.8	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	30	40	10/21/08	77.9	103	89.5	40	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	88.7	1	LANL Int BG LVL	40.03	2.2	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	30	41	10/21/08	354	796	420	41	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	500	1.2	LANL Int BG LVL	127	3.9	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	30	42	10/21/08	1.2	2.15	1.615	42	Sandia Canyon	Intermediate	SCI-2	548	05/18/16	REG	F	INIT	GENINORG	Uranium	U	2.13	1.3	LANL Int BG LVL	0.72	3	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	45	55	05/17/05	13.5	34.9	21.4	55	Sandia Canyon	Regional	R-11	855	05/17/16	REG	F	INIT	METALS	Chromium	Cr	23.8	1.1	LANL Reg BG LVL	5.75	4.1	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	44	52	05/17/05	2.27	7.43	5.175	52	Sandia Canyon	Regional	R-11	855	05/17/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6	1.2	LANL Reg BG LVL	0.89	6.7	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C5	41	49	02/24/00	2.6	18.2	9.75	48	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-15	958.6	05/04/16	REG	F	INIT	METALS	Chromium	Cr	15.9	1.6	LANL Reg BG LVL	5.75	2.8	2	ug/L	1	J	I4a	SW-846:6020	GELC		
C5	41	48	02/24/00	1.35	3.31	2.215	48	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-15	958.6	05/04/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.31	1	LANL Reg BG LVL	0.89	2.6	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	37	43	05/25/05	5.34	9.05	7.03	43	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-15	958.6	05/04/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	8.68	1.2	LANL Reg BG LVL	0.46	18.9	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	16	17	04/26/05	0.044	0.476	0.2185	4	Pueblo Canyon (includes Acid Canyon)	Regional	R-2	906.4	05/31/16	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.261	1.2	LANL Reg BG LVL	0.05	5.2	0.017	mg/L	1	J	I4a	EPA:350.1	GELC		
C5	16	17	04/26/05	2.3	35.2	11.7	17	Pueblo Canyon (includes Acid Canyon)	Regional	R-2	906.4	05/31/16	REG	F	INIT	METALS	Manganese	Mn	9.84	0.8	LANL Reg BG LVL	2.94	3.3	2	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	42	45	05/20/05	0.113	0.33	0.23	42	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.29	1.3	LANL Reg BG LVL	0.1	2.9	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	42	45	05/20/05	21.1	39.3	30.1	45	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	33.8	1.1	LANL Reg BG LVL	3.57	9.5	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	43	47	05/20/05	310	472	402	47	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	METALS	Chromium	Cr	368	0.9	LANL Reg BG LVL	5.75	64	20	ug/L	10		NQ	NQ	SW-846:6020	GELC	
C5	42	45	05/20/05	8.68	12.5	11	45	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	GENINORG	Magnesium	Mg	11.2	1	LANL Reg BG LVL	4.15	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	42	45	05/20/05	6.1	34	14.6	43	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	METALS	Nickel	Ni	16.2	1.1	LANL Reg BG LVL	3.09	5.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	

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C5	40	42	05/20/05	3.1	5.39	4.02	42	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.03	1	LANL Reg BG LVL	0.89	4.5	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	40	42	09/01/05	0.802	1.13	0.978	42	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.959	1	LANL Reg BG LVL	0.46	2.1	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	42	45	05/20/05	38.1	56.4	45.6	45	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-28	934.3	05/11/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	48.6	1.1	LANL Reg BG LVL	7.2	6.8	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	29	33	03/12/08	1.25	6.8	2.33	33	Sandia Canyon	Regional	R-36	766.9	05/17/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.54	1.1	LANL Reg BG LVL	0.89	2.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	28	31	03/12/08	0.845	1.74	1.58	31	Sandia Canyon	Regional	R-36	766.9	05/17/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.45	0.9	LANL Reg BG LVL	0.46	3.2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	29	32	03/12/08	31.5	91.1	55.45	32	Sandia Canyon	Regional	R-36	766.9	05/17/16	REG	F	INIT	METALS	Zinc	Zn	31.5	0.6	LANL Reg BG LVL	3.89	8.1	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	19	07/25/06	2	5.17	4.49	19	Pueblo Canyon (includes Acid Canyon)	Regional	R-4	792.9	05/31/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	3.99	0.9	LANL Reg BG LVL	0.46	8.7	0.25	ug/L	5		NQ	NQ	SW-846:6850	GELC	
C5	29	31	10/09/08	0.102	0.364	0.217	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.293	1.4	LANL Reg BG LVL	0.1	2.9	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	29	31	10/09/08	40.6	56.9	51.3	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	GENINORG	Calcium	Ca	54.3	1.1	LANL Reg BG LVL	24.88	2.2	0.05	mg/L	1		J+	I6b	SW-846:6010C	GELC	
C5	29	31	10/09/08	28.7	48.3	38.7	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	47.6	1.2	LANL Reg BG LVL	3.57	13.3	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	29	40	10/09/08	718	1240	892.5	40	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	METALS	Chromium	Cr	718	0.8	LANL Reg BG LVL	5.75	124.9	2	ug/L	1		J-	I6a	SW-846:6020	GELC	
C5	29	31	10/09/08	11.1	16.1	14.3	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	GENINORG	Magnesium	Mg	14.5	1	LANL Reg BG LVL	4.15	3.5	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	29	31	10/09/08	8.8	34	24.3	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	METALS	Nickel	Ni	25.9	1.1	LANL Reg BG LVL	3.09	8.4	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	31	10/09/08	0.057	7.03	5.9	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.3	1.1	LANL Reg BG LVL	0.89	7.1	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	

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C5	29	31	10/09/08	1.08	1.46	1.27	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.15	0.9	LANL Reg BG LVL	0.46	2.5	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	29	31	10/09/08	60.6	83.2	75	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	78.9	1.1	LANL Reg BG LVL	7.2	11	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	29	31	10/09/08	0.631	2.84	1.065	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-42	931.8	05/04/16	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.669	0.6	LANL Reg BG LVL	0.33	2	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	30	34	11/05/08	3.6	8.84	6.22	34	Sandia Canyon	Regional	R-43 S1	903.9	05/12/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.84	1.4	LANL Reg BG LVL	3.57	2.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	30	39	11/05/08	2.35	156	42.65	36	Sandia Canyon	Regional	R-43 S1	903.9	05/12/16	REG	F	INIT	METALS	Chromium	Cr	156	3.7	LANL Reg BG LVL	5.75	27.1	2	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	30	33	11/05/08	5.01	6.15	5.44	32	Sandia Canyon	Regional	R-43 S1	903.9	05/12/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.46	1	LANL Reg BG LVL	0.89	6.1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	30	34	11/05/08	0.678	1.03	0.9395	34	Sandia Canyon	Regional	R-43 S1	903.9	05/12/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.924	1	LANL Reg BG LVL	0.46	2	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	30	34	11/05/08	8.77	21	12.05	34	Sandia Canyon	Regional	R-43 S1	903.9	05/12/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	17.3	1.4	LANL Reg BG LVL	7.2	2.4	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	29	31	11/10/08	0.389	5.4	1.34	31	Sandia Canyon	Regional	R-43 S2	969.1	05/12/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.45	2.6	LANL Reg BG LVL	0.89	3.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	26	30	02/17/09	7.34	21.8	14.35	30	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-44 S1	895	05/03/16	REG	F	INIT	METALS	Chromium	Cr	21.8	1.5	LANL Reg BG LVL	5.75	3.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	28	02/28/09	8.4	40	18.45	28	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S1	880	05/10/16	REG	F	INIT	METALS	Chromium	Cr	40	2.2	LANL Reg BG LVL	5.75	7	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	24	02/28/09	0.256	3.47	2.465	24	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S1	880	05/10/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.2	1.3	LANL Reg BG LVL	0.89	3.6	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	24	29	03/05/09	6.1	18.4	9.965	28	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S2	974.9	05/10/16	REG	F	INIT	METALS	Chromium	Cr	17.3	1.7	LANL Reg BG LVL	5.75	3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	19	22	03/11/09	2.05	5.29	3.47	18	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-46	1340	05/05/16	FD	F	INIT	METALS	Antimony	Sb	2.32	0.7	LANL Reg BG LVL	1	2.3	1	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	19	22	03/11/09	2.05	5.29	3.47	18	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-46	1340	05/05/16	REG	F	INIT	METALS	Antimony	Sb	2.05	0.6	LANL Reg BG LVL	1	2	1	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	

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C5	22	25	03/11/09	0.705	7.67	1.37	25	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-46	1340	05/05/16	FD	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.762	0.6	LANL Reg BG LVL	0.33	2.3	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	22	25	03/11/09	0.705	7.67	1.37	25	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-46	1340	05/05/16	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.705	0.5	LANL Reg BG LVL	0.33	2.1	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	26	31	03/06/10	4.68	10.1	7.33	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	05/12/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	10.1	1.4	LANL Reg BG LVL	3.57	2.8	0.134	mg/L	2		J	I4a	EPA:300.0	GELC	
C5	26	33	03/06/10	49.8	146	93.9	33	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	05/12/16	REG	F	INIT	METALS	Chromium	Cr	146	1.6	LANL Reg BG LVL	5.75	25.4	2	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	26	31	03/06/10	1.51	9.85	6.35	31	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	05/12/16	REG	F	INIT	METALS	Nickel	Ni	6.83	1.1	LANL Reg BG LVL	3.09	2.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	26	32	03/06/10	0.398	2.72	1.53	32	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-50 S1	1077	05/12/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.04	1.3	LANL Reg BG LVL	0.89	2.3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	16	22	03/26/12	1.64	11.7	8.26	22	Sandia Canyon	Regional	R-62	1158.4	05/09/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	10.3	1.2	LANL Reg BG LVL	3.57	2.9	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	16	22	03/26/12	104	240	135.5	22	Sandia Canyon	Regional	R-62	1158.4	05/09/16	REG	F	INIT	METALS	Chromium	Cr	187	1.4	LANL Reg BG LVL	5.75	32.5	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	16	22	03/26/12	2.56	20.2	13.95	22	Sandia Canyon	Regional	R-62	1158.4	05/09/16	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	
C5	3	3	12/03/15	11.8	93.2	33.5	3	Sandia Canyon	Regional	R-67	1242.6	05/10/16	REG	F	INIT	METALS	Manganese	Mn	11.8	0.4	LANL Reg BG LVL	2.94	4	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C6	56	64	03/12/01	0.11	1.51	1.005	64	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Alluvial	MCO-6	27	05/13/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.995	1	NM GW STD	1.6	0.6	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C6	24	28	02/28/09	8.4	40	18.45	28	Mortandad Canyon (includes Ten Site Canyon and Cañada del Buey)	Regional	R-45 S1	880	05/10/16	REG	F	INIT	METALS	Chromium	Cr	40	2.2	NM GW STD	50	0.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C6	16	22	03/26/12	104	240	135.5	22	Sandia Canyon	Regional	R-62	1158.4	05/09/16	REG	F	INIT	METALS	Chromium	Cr	187	1.4	NM GW STD	50	3.7	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	