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RECEIVED

AUG 28 2015

**NMED
Hazardous Waste Bureau**



Environmental Management
Los Alamos Field Office, MS A316
3747 West Jemez Road
Los Alamos, New Mexico 87544
(505) 665-5658/FAX (505) 606-2132

Date: **AUG 28 2015**

Refer To: ADESH-15-123

LAUR: 15-26307

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 August 2015

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 Environmental Programs met on August 13, 2015, to review new groundwater data received in July 2015. 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 tap water standards, the carcinogenic risk was adjusted to 1×10^{-5} , as specified in the Consent Order.

1-Day Notification

There were no instances of a contaminant detected at a concentration that exceeded the New Mexico Water Quality Control Commission or federal water quality standards for the first time (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.

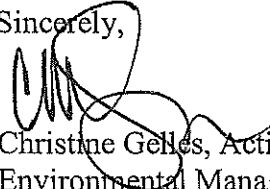
If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,



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

Sincerely,



Christine Gelles, Acting Manager
Environmental Management
Los Alamos Field Office

BR/CG/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in August 2015 That Meet Notification Requirements (EP2015-0147)

Cy: (w/enc.)

Steve Paris, ADEP ER Program, MS M992
Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)

Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
Jake Meadows, ADESH-ENV-CP, MS K490
PRS Database

Cy: (w/o enc./date-stamped letter emailed)

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David Rhodes, DOE-EM-LA
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Stanislaw Marczak, ADEP ER Program
Bruce Robinson, ADEP ER Program
Randy Erickson, ADEP
Jocelyn Buckley, ADESH-ENV-CP
Mike Saladen, ADESH-ENV-CP
Tony Grieggs, ADESH-ENV-CP
Alison Dorries, ADESH-ENV-DO
Michael Brandt, ADESH
Amy De Palma, PADOPS
Craig Leasure, PADOPS

SUMMARY OF GROUNDWATER DATA REVIEWED IN AUGUST 2015 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 7-15 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.

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

DESCRIPTION OF TABLE

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 7-15 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 OC 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	2	2	37418	3.29	3.29	3.29	1	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	UF	INIT	VOC	Methylene Chloride	75-09-2	3.29	1	EPA MCL	5	0.7	3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	15	21	38469	152	152	152	1	Pueblo Canyon (includes Acid Canyon)	Regional	R-4	792.9	42157	REG	F	INIT	METALS	Aluminum	Al	152	1	LANL Reg BG LVL	68	2.2	68	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	15	21	38469	0.0353	0.0756	0.048	3	Pueblo Canyon (includes Acid Canyon)	Regional	R-4	792.9	42157	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.0756	1.6	LANL Reg BG LVL	0.05	1.5	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	1	1	42159	0.215	0.215	0.215	1	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.215	1	LANL Avl BG LVL	0.04	5.4	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	2	2	36696	293	293	293	1	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	METALS	Boron	B	293	1	LANL Avl BG LVL	51.89	5.6	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	2	2	37418	0.111	0.111	0.111	1	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.111	1	LANL Avl BG LVL	0.07	1.6	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	6	7	36696	1	10	8.15	4	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	METALS	Cobalt	Co	1	0.1	LANL Avl BG LVL	0.5	2	1	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	6	7	36696	3.2	5.5	4.35	2	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	METALS	Copper	Cu	5.5	1.3	LANL Avl BG LVL	3	1.8	3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	3	3	36696	0.379	0.56	0.41	3	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.379	0.9	LANL Avl BG LVL	0.27	1.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C2	2	2	37418	2.18	2.49	2.335	2	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	METALS	Molybdenum	Mo	2.49	1.1	LANL Avl BG LVL	2	1.2	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C2	6	7	36696	7.45	10.7	7.55	3	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	METALS	Nickel	Ni	7.45	1	LANL Avl BG LVL	1	7.5	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C2	3	3	36696	0.55	7.3	0.73	3	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	7.3	10	LANL Avl BG LVL	0.57	12.8	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C2	1	1	42159	0.153	0.153	0.153	1	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.153	1	LANL Avl BG LVL	0.05	3.1	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C2	5	6	36696	12.1	16	14.8	6	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Potassium	K	14.6	1	LANL Avl BG LVL	5.21	2.8	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	6	7	36696	60	76.6	63	7	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Sodium	Na	64.7	1	LANL Avl BG LVL	15.54	4.2	0.1	mg/L	1		J-	I6a	SW-846:6010C	GELC	
C2	6	7	36696	7.3	58.3	17	7	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	58.3	3.4	LANL Avl BG LVL	24.83	2.3	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C2	2	2	36696	340	349	344.5	2	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	349	1	LANL Avl BG LVL	139	2.5	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C2	2	2	37418	0.987	4.35	2.6685	2	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.987	0.4	LANL Avl BG LVL	0.05	19.7	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C2	6	7	36696	6.31	6.31	6.31	1	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	METALS	Vanadium	V	6.31	1	LANL Avl BG LVL	1	6.3	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	6	7	36696	5.34	10.2	7.77	2	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	METALS	Zinc	Zn	10.2	1.3	LANL Avl BG LVL	2	5.1	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C3	2	2	37418	3.29	3.29	3.29	1	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	UF	INIT	VOC	Methylene Chloride	75-09-2	3.29	1	EPA MCL	5	0.7	3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	J-flag value
C3	3	3	36696	0.55	7.3	0.73	3	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-5n	7.43	42159	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	7.3	10	EPA MCL	10	0.7	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	highest result so far
C3	25	29	39519	1.25	6.8	2.3	29	Sandia Canyon	Regional	R-36	766.9	42129	REG	F	RE	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.8	3	EPA MCL	10	0.7	0.425	mg/L	25	H	J-	I9a	EPA:353.2	GELC	highest result so far
C5	15	16	38468	2.3	35.2	11.75	16	Pueblo Canyon (includes Acid Canyon)	Regional	R-2	906.4	42166	REG	F	INIT	METALS	Manganese	Mn	6.83	0.6	LANL Reg BG LVL	2.94	2.3	2	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	12	18	38923	2	5.17	4.495	18	Pueblo Canyon (includes Acid Canyon)	Regional	R-4	792.9	42157	REG	F	INIT	GENINORG	Perchlorate	CIO4	2	0.4	LANL Reg BG LVL	0.46	4.3	0.2	ug/L	4		NQ	NQ	SW-846:6850	GELC	lowest result so far
C5	37	44	36580	1.35	3.31	2.225	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	42128	REG	F	RE	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.22	1.4	LANL Reg BG LVL	0.89	3.6	0.17	mg/L	10	H	J-	I9a	EPA:353.2	GELC	
C5	15	19	38671	6.96	8.31	7.51	19	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Regional	R-24	825	42157	FD	F	INIT	GENINORG	Chloride	Cl(-1)	7.87	1	LANL Reg BG LVL	3.57	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	15	19	38671	6.96	8.31	7.51	19	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Regional	R-24	825	42157	REG	F	INIT	GENINORG	Chloride	Cl(-1)	7.87	1	LANL Reg BG LVL	3.57	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	14	18	38671	10.1	33.1	14.1	17	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Regional	R-24	825	42157	FD	F	INIT	METALS	Zinc	Zn	12.2	0.9	LANL Reg BG LVL	3.89	3.1	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	14	18	38671	10.1	33.1	14.1	17	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Regional	R-24	825	42157	REG	F	INIT	METALS	Zinc	Zn	12.3	0.9	LANL Reg BG LVL	3.89	3.2	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	25	29	39519	1.25	6.8	2.3	29	Sandia Canyon	Regional	R-36	766.9	42129	REG	F	RE	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.8	3	LANL Reg BG LVL	0.89	7.6	0.425	mg/L	25	H	J-	I9a	EPA:353.2	GELC	highest result so far
C5	11	16	38930	0.215	2.57	0.817	16	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.275	0.3	LANL Avl BG LVL	0.07	3.9	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	13	19	36978	2	5.42	2.8	13	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	METALS	Chromium	Cr	2.86	1	LANL Avl BG LVL	1	2.9	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	16	24	36978	0.227	0.961	0.6385	24	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.647	1	LANL Avl BG LVL	0.27	2.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	13	19	36978	134	2470	240	19	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	METALS	Molybdenum	Mo	134	0.6	LANL Avl BG LVL	2	67	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	11	16	38930	0.229	0.614	0.418	16	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.239	0.6	LANL Avl BG LVL	0.05	4.8	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	14	20	36978	32.8	75.4	46	20	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	GENINORG	Sodium	Na	42.1	0.9	LANL Avl BG LVL	15.54	2.7	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	16	23	36978	0.11	0.296	0.1645	16	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.149	0.9	LANL Avl BG LVL	0.05	3	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	13	19	36978	2.06	4.14	3.09	17	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	42163	REG	F	INIT	METALS	Vanadium	V	3.09	1	LANL Avl BG LVL	1	3.1	1	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	10	14	40297	156	195	175	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	42156	REG	F	INIT	METALS	Boron	B	159	0.9	LANL Int BG LVL	15.12	10.5	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	10	14	40297	36.3	43.3	37.75	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	42156	REG	F	INIT	GENINORG	Calcium	Ca	37.4	1	LANL Int BG LVL	17.31	2.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	10	14	40297	40.2	50.8	45.95	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	42156	REG	F	INIT	GENINORG	Chloride	Cl(-1)	45.9	1	LANL Int BG LVL	7.78	5.9	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	10	14	40297	2.17	20.1	3.605	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	42156	REG	F	INIT	METALS	Nickel	Ni	2.17	0.6	LANL Int BG LVL	1	2.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	10	14	40297	0.469	0.565	0.493	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	42156	REG	F	INIT	GENINORG	Perchlorate	CIO4	0.483	1	LANL Int BG LVL	0.05	9.7	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	10	14	40297	249	299	286.5	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	42156	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	283	1	LANL Int BG LVL	127	2.2	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld OC 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	13	15	38939	150	162	156	15	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	155	1	LANL Int BG LVL	52	3	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C5	12	13	38939	84.6	122	101	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	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	13	15	38939	0.148	0.279	0.1675	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	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	12	13	38939	54.8	60	57.8	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	GENINORG	Calcium	Ca	56.9	1	LANL Int BG LVL	17.31	3.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	15	38939	34.4	44.9	37.7	15	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	GENINORG	Chloride	Cl(-1)	44.8	1.2	LANL Int BG LVL	7.78	5.8	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	12	13	38939	15.1	16.8	15.8	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	GENINORG	Magnesium	Mg	16.3	1	LANL Int BG LVL	6.12	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	12	13	38939	6.69	9.7	8.7	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	METALS	Nickel	Ni	6.69	0.8	LANL Int BG LVL	1	6.7	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	13	15	38939	0.104	3.45	2.41	15	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.91	0.8	LANL Int BG LVL	0.05	38.2	0.2	ug/L	4		NQ	NQ	SW-846:6850	GELC	
C5	13	15	38939	251	437	319	15	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	319	1	LANL Int BG LVL	127	2.5	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	12	13	38939	7.72	10.2	9.38	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-3i	215.2	42156	REG	F	INIT	GENINORG	Uranium	U	7.72	0.8	LANL Int BG LVL	0.72	10.7	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	12	12	38937	141	296	169.5	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	141	0.8	LANL Int BG LVL	52	2.7	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C5	11	11	38937	223	250	235	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	METALS	Boron	B	223	0.9	LANL Int BG LVL	15.12	14.7	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	12	12	38937	0.0905	0.179	0.118	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.114	1	LANL Int BG LVL	0.03	3.8	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	11	11	38937	39.2	53	48.4	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Calcium	Ca	39.2	0.8	LANL Int BG LVL	17.31	2.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	12	12	38937	42.5	49.9	46.05	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Chloride	Cl(-1)	48	1	LANL Int BG LVL	7.78	6.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	11	11	38937	1.1	2.1	1.645	10	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	METALS	Cobalt	Co	1.47	0.9	LANL Int BG LVL	0.5	2.9	1	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	11	11	38937	8.46	11.4	10.1	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	METALS	Nickel	Ni	8.46	0.8	LANL Int BG LVL	1	8.5	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	12	12	38937	0.234	0.372	0.3065	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.327	1.1	LANL Int BG LVL	0.05	6.5	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	11	11	38937	42.6	53	45.9	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Sodium	Na	47.4	1	LANL Int BG LVL	12.19	3.9	0.1	mg/L	1		J+	16b	SW-846:6010C	GELC	
C5	12	12	38937	331	393	368	12	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	339	0.9	LANL Int BG LVL	127	2.7	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	13	13	38479	0.032	1.69	1.14	13	Pueblo Canyon (includes Acid Canyon)	Intermediate	POI-4	159	42156	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	1.47	1.3	LANL Int BG LVL	0.08	18.4	0.017	mg/L	1		J	14a	EPA:365.4	GELC	