SUMMARY OF GROUNDWATER DATA REVIEWED IN JANUARY 2014 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 seven 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 12-13 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 seven 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, not all seven criteria may appear in the table.

The criteria are as follows:

CA. The Respondents shall notify the Department orally within one business day after review of the analytical data if such data show detection of a contaminant in a well screen interval or spring at a concentration that exceeds either the NMWQCC water quality standard or the federal MCL if that contaminant has not previously exceeded such water quality standard or maximum contaminant level in such well screen interval or spring.

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 (customer) sample or reanalysis

Anyl Suite Code—analytical suite (such as volatile organic compounds) for analyzed compound

Analyte Desc—name of analyte

Std Result—analytical result in standard measurement units

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 Uncert—uncertainty

Std Mda—minimum detectable activity

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

Concat Flag Code—secondary validation qualifier

Concat 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 12-13 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Well Class	Start Date	Fld QC Type Code	Fld Prep Code	Analysis Type Code	Anyl Suite Code	Analyte Desc	Std Result	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C1	9	12	02/28/09	3.96	3.96	3.96	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	MULTI	11/06/13	REG	UF	INIT	VOC	Methylene Chloride	3.96	EPA MCL	5	0.8	3	ug/L	1	HJ	J	J_LAB	SW-846:8260B	GELC	common analytical laboratory contaminant, not found in trip blank
C2	16	17	03/05/09	2.74	3.72	3.27	17	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	MULTI	11/06/13	REG	F	INIT	GENINORG	Chloride	3.72	LANL Reg BG LVL	3.57	1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C2	32	39	04/18/02	16.3	70.7	40.5	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-13	SINGLE	11/08/13	REG	F	INIT	METALS	Aluminum	70.7	LANL Reg BG LVL	68	1	68	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	8	13	03/26/12	0.0665	0.187	0.0743	5	Sandia Canyon	Regional	R-62	SINGLE	11/12/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	0.187	LANL Reg BG LVL	0.16	1.2	0.017	mg/L	1		J	I10a	EPA:365.4	GELC	
C3	16	20	02/28/09	8.4	27.7	16.6	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	MULTI	11/06/13	REG	F	INIT	METALS	Chromium	27.7	NM GW STD	50	0.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest and increasing
C3	9	12	02/28/09	3.96	3.96	3.96	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	MULTI	11/06/13	REG	UF	INIT	VOC	Methylene Chloride	3.96	EPA MCL	5	0.8	3	ug/L	1	HJ	J	J_LAB	SW-846:8260B	GELC	common analytical laboratory contaminant, not found in trip blank
C3	36	43	05/24/01	248	649	306	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	SINGLE	11/20/13	REG	F	INIT	GENINORG	Total Dissolved Solids	649	NM GW STD	1000	0.6	3.4	mg/L	1		J	I10a	EPA:160.1	GELC	supported by field EC, previous high 493 in 6/03 except for one higher outlier
C5	33	39	02/24/00	1.35	3.31	2.21	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	SINGLE	11/07/13	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	1.94	LANL Reg BG LVL	0.89	2.2	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	33	39	02/24/00	1.35	3.31	2.21	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	SINGLE	11/07/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	1.97	LANL Reg BG LVL	0.89	2.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	29	35	05/25/05	5.34	8.42	6.9	35	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	SINGLE	11/07/13	FD	F	INIT	GENINORG	Perchlorate	7.19	LANL Reg BG LVL	0.46	15.6	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	29	35	05/25/05	5.34	8.42	6.9	35	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	SINGLE	11/07/13	REG	F	INIT	GENINORG	Perchlorate	7.07	LANL Reg BG LVL	0.46	15.4	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	21	23	10/09/08	0.102	0.26	0.204	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	GENINORG	Bromide	0.24	LANL Reg BG LVL	0.1	2.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	21	23	10/09/08	40.6	56.5	49.2	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	GENINORG	Calcium	52.8	LANL Reg BG LVL	24.88	2.1	0.05	mg/L	1		J	I10a	SW-846:6010B	GELC	
C5	21	23	10/09/08	28.7	43.9	37.5	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	GENINORG	Chloride	43.9	LANL Reg BG LVL	3.57	12.3	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	21	32	10/09/08	744	1240	894	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	METALS	Chromium	890	LANL Reg BG LVL	5.75	154.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	21	23	10/09/08	11.1	15.7	13.8	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	GENINORG	Magnesium	14.7	LANL Reg BG LVL	4.15	3.5	0.11	mg/L	1		J	I10a	SW-846:6010B	GELC	
C5	21	23	10/09/08	8.8	29.6	23.1	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	METALS	Nickel	18.8	LANL Reg BG LVL	3.09	6.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	21	23	10/09/08	0.057	7.03	5.98	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	5.75	LANL Reg BG LVL	0.89	6.5	0.17	mg/L	10		J	I10a	EPA:353.2	GELC	
C5	21	23	10/09/08	1.15	1.46	1.28	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	GENINORG	Perchlorate	1.15	LANL Reg BG LVL	0.46	2.5	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	21	23	10/09/08	60.6	80.6	71.6	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	F	INIT	GENINORG	Sulfate	78.8	LANL Reg BG LVL	7.2	10.9	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	21	23	10/09/08	0.651	2.84	1.145	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	SINGLE	11/07/13	REG	UF	INIT	GENINORG	Total Organic Carbon	0.914	LANL Reg BG LVL	0.33	2.8	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	16	20	02/28/09	8.4	27.7	16.6	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	MULTI	11/06/13	REG	F	INIT	METALS	Chromium	27.7	LANL Reg BG LVL	5.75	4.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest and increasing
C5	16	16	02/28/09	0.256	2.65	2.1	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	MULTI	11/06/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	2.65	LANL Reg BG LVL	0.89	3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	16	21	03/05/09	6.1	13.2	8.96	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	MULTI	11/06/13	REG	F	INIT	METALS	Chromium	13.2	LANL Reg BG LVL	5.75	2.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest and increasing
C5	16	20	02/17/09	7.34	17.5	12.7	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44 S1	MULTI	11/06/13	REG	F	INIT	METALS	Chromium	14.8	LANL Reg BG LVL	5.75	2.6	2	ug/L	1		J	I10a	SW-846:6020	GELC	
C5	27	34	04/21/05	3.3	44.3	16.15	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	SINGLE	11/20/13	REG	F	INIT	GENINORG	Perchlorate	16.5	LANL Avl BG LVL	0.05	330	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	22	27	05/24/01	0.136	0.542	0.283	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	SINGLE	11/20/13	REG	F	INIT	GENINORG	Total Kjeldahl Nitrogen	0.214	LANL Avl BG LVL	0.04	5.3	0.033	mg/L	1		NQ	NQ	EPA:351.2	GELC	
C5	50	57	03/12/01	0.742	1.51	1.05	57	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	SINGLE	11/20/13	REG	F	INIT	GENINORG	Fluoride	0.798	LANL Avl BG LVL	0.27	3	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	34	39	04/27/05	3.23	31.7	19	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	SINGLE	11/20/13	REG	F	INIT	GENINORG	Perchlorate	8.63	LANL Avl BG LVL	0.05	172.6	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	52	59	03/12/01	0.78	1.79	1.285	58	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	SINGLE	11/21/13	REG	F	INIT	GENINORG	Fluoride	1.08	LANL Avl BG LVL	0.27	4	0.033	mg/L	1		J	I10a	EPA:300.0	GELC	
C5	51	59	03/12/01	0.685	10.9	2.3	58	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	SINGLE	11/21/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	2.96	LANL Avl BG LVL	0.57	5.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	34	39	04/28/05	6.23	47.5	23.5	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	SINGLE	11/21/13	REG	F	INIT	GENINORG	Perchlorate	9.38	LANL Avl BG LVL	0.05	187.6	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	25	26	01/11/07	72.8	99.4	85.8	25	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	METALS	Boron	78	LANL Int BG LVL	15.12	5.2	15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	25	26	01/11/07	0.781	1.53	1.05	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	GENINORG	Bromide	0.841	LANL Int BG LVL	0.03	28	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	25	26	01/11/07	54.5	87.6	71.55	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	GENINORG	Calcium	54.5	LANL Int BG LVL	17.31	3.1	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	25	26	01/11/07	80.5	124	91.4	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	GENINORG	Chloride	121	LANL Int BG LVL	7.78	15.6	1.34	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C5	25	28	01/11/07	8.68	22.1	13.35	28	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	METALS	Chromium	8.68	LANL Int BG LVL	1	8.7	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	25	26	01/11/07	44.9	97	75.8	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	METALS	Molybdenum	92.6	LANL Int BG LVL	2	46.3	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	25	26	01/11/07	4.02	8.1	5.455	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	METALS	Nickel	4.88	LANL Int BG LVL	1	4.9	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	25	26	01/11/07	0.68	1.58	0.9765	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	GENINORG	Perchlorate	0.68	LANL Int BG LVL	0.05	13.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	25	26	01/11/07	50.7	65.1	55.3	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	GENINORG	Sodium	55.1	LANL Int BG LVL	12.19	4.5	0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	25	26	01/11/07	357	536	484.5	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	GENINORG	Total Dissolved Solids	454	LANL Int BG LVL	127	3.6	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	25	26	01/11/07	0.404	1.45	0.842	25	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	1.08	LANL Int BG LVL	0.08	13.5	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	25	26	01/11/07	1.7	3.09	2.435	26	Sandia Canyon	Intermediate	SCI-1	SINGLE	11/19/13	REG	F	INIT	RAD	Uranium	2.18	LANL Int BG LVL	0.72	3	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	8	13	03/26/12	1.64	9.19	8.07	13	Sandia Canyon	Regional	R-62	SINGLE	11/12/13	FD	F	INIT	GENINORG	Chloride	9.18	LANL Reg BG LVL	3.57	2.6	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	8	13	03/26/12	1.64	9.19	8.07	13	Sandia Canyon	Regional	R-62	SINGLE	11/12/13	REG	F	INIT	GENINORG	Chloride	9.19	LANL Reg BG LVL	3.57	2.6	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	8	13	03/26/12	123	198	135	13	Sandia Canyon	Regional	R-62	SINGLE	11/12/13	FD	F	INIT	METALS	Chromium	147	LANL Reg BG LVL	5.75	25.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	8	13	03/26/12	123	198	135	13	Sandia Canyon	Regional	R-62	SINGLE	11/12/13	REG	F	INIT	METALS	Chromium	148	LANL Reg BG LVL	5.75	25.7	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	20	26	11/05/08	2.35	69.9	16	23	Sandia Canyon	Regional	R-43 S1	MULTI	11/19/13	REG	F	INIT	METALS	Chromium	69.9	LANL Reg BG LVL	5.75	12.2	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest and increasing
C5	20	20	11/05/08	5.05	6.03	5.5	19	Sandia Canyon	Regional	R-43 S1	MULTI	11/19/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	5.5	LANL Reg BG LVL	0.89	6.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	35	45	05/17/05	13.5	34.9	20.7	45	Sandia Canyon	Regional	R-11	SINGLE	11/05/13	REG	F	INIT	METALS	Chromium	18.6	LANL Reg BG LVL	5.75	3.2	2	ug/L	1		J	I10a	SW-846:6020	GELC	
C5	34	42	05/17/05	2.27	7.43	5.105	42	Sandia Canyon	Regional	R-11	SINGLE	11/05/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	6.09	LANL Reg BG LVL	0.89	6.8	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	34	42	05/17/05	5.95	15.4	8.615	42	Sandia Canyon	Regional	R-11	SINGLE	11/05/13	REG	F	INIT	GENINORG	Sulfate	14.5	LANL Reg BG LVL	7.2	2	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	34	42	05/17/05	5.94	52.9	10.5	35	Sandia Canyon	Regional	R-11	SINGLE	11/05/13	REG	F	INIT	METALS	Zinc	10.3	LANL Reg BG LVL	3.89	2.6	3.3	ug/L	1		J	I10a	SW-846:6010B	GELC	
C5	29	32	06/09/05	0.083	0.157	0.131	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	SINGLE	11/08/13	REG	F	INIT	GENINORG	Bromide	0.142	LANL Int BG LVL	0.03	4.7	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	29	37	06/09/05	1.1	8.06	3.74	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	SINGLE	11/08/13	REG	F	INIT	METALS	Chromium	6.14	LANL Int BG LVL	1	6.1	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	29	32	06/09/05	68.7	132	88.3	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	SINGLE	11/08/13	REG	F	INIT	GENINORG	Perchlorate	84.3	LANL Int BG LVL	0.05	1686	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	Well Class	Start Date	Fld QC Type Code	Fld Prep Code	Analysis Type Code	Anyl Suite Code	Analyte Desc	Std Result	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	33	46	06/15/05	25.4	51.9	37.3	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	METALS	Boron	42.3	LANL Int BG LVL	15.12	2.8	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	33	46	06/15/05	0.212	0.702	0.607	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Bromide	0.627	LANL Int BG LVL	0.03	20.9	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	33	46	06/15/05	42.8	75.5	64.45	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Calcium	64.4	LANL Int BG LVL	17.31	3.7	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	33	46	06/15/05	21.2	64.8	45.85	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Chloride	62.6	LANL Int BG LVL	7.78	8	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	33	49	06/15/05	29.4	81.3	49.6	49	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	METALS	Chromium	81.3	LANL Int BG LVL	1	81.3	10	ug/L	5		NQ	NQ	SW-846:6020	GELC	Steady increase since 2/07
C5	33	46	06/15/05	0.412	0.635	0.539	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Fluoride	0.575	LANL Int BG LVL	0.23	2.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	33	46	06/15/05	8.49	15.7	13.15	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Magnesium	13.3	LANL Int BG LVL	6.12	2.2	0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	33	46	06/15/05	2.9	41.8	11.95	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	METALS	Nickel	41.8	LANL Int BG LVL	1	41.8	2.5	ug/L	5		NQ	NQ	SW-846:6020	GELC	
C5	33	46	06/15/05	7.62	20.4	11.65	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	8.02	LANL Int BG LVL	2.41	3.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	33	46	06/15/05	56.3	246	93.05	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Perchlorate	56.8	LANL Int BG LVL	0.05	1136	5	ug/L	100		J+	PE12f	SW-846:6850	GELC	
C5	33	46	06/15/05	19.5	28.8	25.25	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Sodium	25.6	LANL Int BG LVL	12.19	2.1	0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	33	46	06/15/05	298	497	402.5	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	GENINORG	Total Dissolved Solids	397	LANL Int BG LVL	127	3.1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	33	46	06/15/05	15.9	288	33.9	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	SINGLE	11/07/13	REG	F	INIT	METALS	Zinc	27.6	LANL Int BG LVL	2	13.8	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C6	16	20	02/28/09	8.4	27.7	16.6	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	MULTI	11/06/13	REG	F	INIT	METALS	Chromium	27.7	NM GW STD	50	0.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest and increasing
C6	20	26	11/05/08	2.35	69.9	16	23	Sandia Canyon	Regional	R-43 S1	MULTI	11/19/13	REG	F	INIT	METALS	Chromium	69.9	NM GW STD	50	1.4	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest and increasing
C6	20	23	06/26/06	4.45	9.2	5.995	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	SINGLE	11/08/13	REG	UF	INIT	SVOC	Dioxane[1,4-]	7.16	EPA TAP SCRN LVL	6.7	1.1	3.16	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	almost all prior values are estimated
C6	29	32	06/09/05	3.17	5.49	4.235	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	SINGLE	11/08/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	5.49	EPA MCL	10	0.5	0.17	mg/L	10		J	I10a	EPA:353.2	GELC	
C6	29	32	06/09/05	68.7	132	88.3	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	SINGLE	11/08/13	REG	F	INIT	GENINORG	Perchlorate	84.3	Consent Order	4	21.1	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	