SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN SEPTEMBER 2012

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 9-12 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—identifies whether samples are filtered or unfiltered

Lab Sample Type Code—indicates whether result is a primary (customer) sample or reanalysis

Anyl Suite—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

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 9-12 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Std Result	Result/Median	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	12	16	06/27/05	14.7	14.7	14.7	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S1	995.5	08/21/12	REG	UF	INIT	SVOC	Benzoic Acid	14.7	1	EPA TAP SCRN LVL	58000	0	6.32	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	14	16	06/24/05	14.4	14.4	14.4	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S2	1112.4	08/21/12	REG	UF	INIT	SVOC	Benzoic Acid	14.4	1	EPA TAP SCRN LVL	58000	0	6.32	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	14	15	08/07/01	14.2	14.2	14.2	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	UF	INIT	SVOC	Benzoic Acid	14.2	1	EPA TAP SCRN LVL	58000	0	6	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	13	15	09/18/00	12.8	19.7	14.7	3	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	UF	INIT	SVOC	Benzoic Acid	14.7	1	EPA TAP SCRN LVL	58000	0	6.32	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	15	16	09/18/00	0.32	0.32	0.32	1	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	UF	INIT	VOC	Chloromethane	0.32	1	EPA TAP SCRN LVL	190	0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	11	13	09/19/00	14.7	14.7	14.7	1	Sandia Canyon	Intermediate	R-12 S2	504.5	08/20/12	REG	UF	INIT	SVOC	Benzoic Acid	14.7	1	EPA TAP SCRN LVL	58000	0	6.32	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C2	29	31	05/20/05	0.019	0.144	0.0815	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	GENINORG	Ammonia as Nitrogen	0.144	1.8	LANL Reg BG LVL	0.05	2.9	0.017	mg/L	1		J	I10a	EPA:350.1	GELC	
C2	11	14	03/06/10	0.0206	0.174	0.02575	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	08/15/12	REG	F	INIT	GENINORG	Ammonia as Nitrogen	0.174	6.8	LANL Reg BG LVL	0.05	3.5	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	11	13	03/11/10	0.17	0.975	0.55	13	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S2	1185	08/16/12	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	0.975	1.8	LANL Reg BG LVL	0.89	1.1	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C2	12	14	08/23/05	2.4	4.67	3.55	4	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-6	1205	08/27/12	REG	F	INIT	METALS	Zinc	4.67	1.3	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	25	35	12/19/05	2.6	69.5	2.9	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16r	600	08/09/12	REG	F	INIT	METALS	Tin	69.5	24	LANL Reg BG LVL	3.26	21.3	2.5	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C2	19	20	08/07/01	1.69	3.01	1.85	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	METALS	Copper	3.01	1.6	LANL Avl BG LVL	3	1	3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	19	20	08/07/01	3.93	5.3	4.615	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	METALS	Manganese	3.93	0.9	LANL Avl BG LVL	2	2	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	4	03/26/12	0.075	0.118	0.0965	2	Sandia Canyon	Regional	R-62	1158.4	08/08/12	REG	F	INIT	GENINORG	Bromide	0.118	1.2	LANL Reg BG LVL	0.1	1.2	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	15	17	11/05/08	0.855	8.24	1.67	16	Sandia Canyon	Regional	R-43 S1	903.9	08/14/12	REG	F	INIT	METALS	Nickel	8.24	4.9	LANL Reg BG LVL	3.09	2.7	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	15	19	08/24/05	15.7	18	16.8	19	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/27/12	FD	F	INIT	GENINORG	Chloride	17.2	1	LANL Int BG LVL	7.78	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	15	19	08/24/05	15.7	18	16.8	19	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/27/12	REG	F	INIT	GENINORG	Chloride	17.2	1	LANL Int BG LVL	7.78	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	15	19	08/24/05	0.575	0.899	0.658	19	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/27/12	FD	F	INIT	GENINORG	Fluoride	0.706	1.1	LANL Int BG LVL	0.23	3.1	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	15	19	08/24/05	0.575	0.899	0.658	19	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/27/12	REG	F	INIT	GENINORG	Fluoride	0.695	1.1	LANL Int BG LVL	0.23	3	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	11	15	07/26/06	5.98	8.32	6.87	15	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/27/12	FD	F	INIT	GENINORG	Perchlorate	6.09	0.9	LANL Int BG LVL	0.05	121.8	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	11	15	07/26/06	5.98	8.32	6.87	15	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/27/12	REG	F	INIT	GENINORG	Perchlorate	5.98	0.9	LANL Int BG LVL	0.05	119.6	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	7	10	05/21/09	0.894	1.8	1.49	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/27/12	REG	F	INIT	GENINORG	Bromide	1.8	1.2	LANL Int BG LVL	0.03	60	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	7	10	05/21/09	32.5	38.9	34.3	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/27/12	REG	F	INIT	GENINORG	Calcium	38.9	1.1	LANL Int BG LVL	17.31	2.2	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	7	10	05/21/09	25.3	31	27.85	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/27/12	REG	F	INIT	GENINORG	Chloride	30.7	1.1	LANL Int BG LVL	7.78	3.9	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	7	10	05/21/09	76.9	122	92.2	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/27/12	REG	F	INIT	METALS	Molybdenum	122	1.3	LANL Int BG LVL	2	61	0.825	ug/L	5		NQ	NQ	SW-846:6020	GELC	
C5	7	10	05/21/09	9.66	21.9	12.05	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/27/12	REG	F	INIT	METALS	Nickel	9.66	0.8	LANL Int BG LVL	1	9.7	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	7	10	05/21/09	0.582	0.68	0.642	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/27/12	REG	F	INIT	GENINORG	Perchlorate	0.631	1	LANL Int BG LVL	0.05	12.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	7	10	05/21/09	3.44	14.8	8.75	9	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/27/12	REG	F	INIT	METALS	Zinc	5.71	0.7	LANL Int BG LVL	2	2.9	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	17	18	10/09/08	0.102	0.244	0.201	17	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	GENINORG	Bromide	0.215	1.1	LANL Reg BG LVL	0.1	2.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	17	18	10/09/08	28.7	40.3	34	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	GENINORG	Chloride	37.8	1.1	LANL Reg BG LVL	3.57	10.6	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	17	27	10/09/08	744	1240	891	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	METALS	Chromium	1070	1.2	LANL Reg BG LVL	5.75	186.1	40	ug/L	20		NQ	NQ	SW-846:6020	GELC	
C5	17	18	10/09/08	11.1	15.7	13.55	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	GENINORG	Magnesium	13.8	1	LANL Reg BG LVL	4.15	3.3	0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	17	18	10/09/08	8.8	29.6	22.3	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	METALS	Nickel	24.4	1.1	LANL Reg BG LVL	3.09	7.9	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	18	10/09/08	0.057	7.03	6	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	5.55	0.9	LANL Reg BG LVL	0.89	6.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	17	18	10/09/08	1.18	1.46	1.31	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	GENINORG	Perchlorate	1.34	1	LANL Reg BG LVL	0.46	2.9	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	17	18	10/09/08	60.6	80.6	70.1	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	GENINORG	Sulfate	71.6	1	LANL Reg BG LVL	7.2	9.9	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	17	18	10/09/08	7.7	28.1	14.3	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	08/08/12	REG	F	INIT	METALS	Zinc	8.64	0.6	LANL Reg BG LVL	3.89	2.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	31	34	05/20/05	0.113	0.33	0.216	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	GENINORG	Bromide	0.295	1.4	LANL Reg BG LVL	0.1	2.9	0.067	mg/L	1		J	I10a	EPA:300.0	GELC	
C5	31	34	05/20/05	21.1	35.3	29.35	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	GENINORG	Chloride	32.9	1.1	LANL Reg BG LVL	3.57	9.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	32	36	05/20/05	310	472	390	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	METALS	Chromium	450	1.2	LANL Reg BG LVL	5.75	78.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	31	34	05/20/05	8.68	12.1	10.4	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	GENINORG	Magnesium	11.7	1.1	LANL Reg BG LVL	4.15	2.8	0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	31	34	05/20/05	6.1	34	13.7	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	METALS	Nickel	17.8	1.3	LANL Reg BG LVL	3.09	5.8	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	31	05/20/05	3.1	5.39	4.17	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	3.74	0.9	LANL Reg BG LVL	0.89	4.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	29	31	09/01/05	0.802	1.13	0.979	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	GENINORG	Perchlorate	1.02	1	LANL Reg BG LVL	0.46	2.2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	31	34	05/20/05	38.1	50.7	42.95	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	F	INIT	GENINORG	Sulfate	47.3	1.1	LANL Reg BG LVL	7.2	6.6	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	28	29	05/20/05	0.372	3.45	0.65	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	08/08/12	REG	UF	INIT	GENINORG	Total Organic Carbon	1.1	1.7	LANL Reg BG LVL	0.33	3.3	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	11	16	03/06/10	49.8	99.8	74.45	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	08/15/12	REG	F	INIT	METALS	Chromium	87.4	1.2	LANL Reg BG LVL	5.75	15.2	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	13	15	05/12/04	2.14	146	12.8	15	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16 S2	863.4	08/09/12	REG	F	INIT	METALS	Manganese	13.9	1.1	LANL Reg BG LVL	2.94	4.7	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	12	13	03/19/04	3.74	66.2	13	13	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16 S4	1237	08/09/12	REG	F	INIT	METALS	Manganese	66.2	5.1	LANL Reg BG LVL	2.94	22.5	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	steady increase since Baski conversion in 2009
C5	49	56	03/12/01	0.742	1.51	1.05	56	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	08/15/12	REG	F	INIT	GENINORG	Fluoride	0.875	0.8	LANL Avl BG LVL	0.27	3.2	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	33	38	04/27/05	3.23	31.7	19.2	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	08/15/12	REG	F	INIT	GENINORG	Perchlorate	4.39	0.2	LANL Avl BG LVL	0.05	87.8	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	19	20	08/07/01	154	211	190.5	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	METALS	Barium	202	1.1	LANL Avl BG LVL	68.57	2.9	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	51	58	03/12/01	0.78	1.79	1.29	57	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	GENINORG	Fluoride	0.981	0.8	LANL Avl BG LVL	0.27	3.6	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	19	20	08/07/01	34.6	92.1	64.45	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	METALS	Molybdenum	41.2	0.6	LANL Avl BG LVL	2	20.6	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	50	58	03/12/01	0.685	10.9	2.14	57	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	1.35	0.6	LANL Avl BG LVL	0.57	2.4	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	33	38	04/28/05	6.23	47.5	23.7	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	GENINORG	Perchlorate	6.23	0.3	LANL Avl BG LVL	0.05	124.6	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	19	20	08/07/01	11.5	19.4	16.55	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	GENINORG	Potassium	16.5	1	LANL Avl BG LVL	5.21	3.2	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	19	20	08/07/01	43.1	79.3	59.3	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	GENINORG	Sodium	54.5	0.9	LANL Avl BG LVL	15.54	3.5	0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Std Result	Result/Median	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	3	3	03/22/12	2.32	3.18	2.93	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	GENINORG	Total Organic Carbon	3.18	1.1	LANL Avl BG LVL	0.46	6.9	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	29	30	08/07/01	0.04	0.432	0.286	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	08/14/12	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	0.26	0.9	LANL Avl BG LVL	0.05	5.2	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	17	25	10/21/08	0.194	0.59	0.505	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	GENINORG	Bromide	0.581	1.2	LANL Int BG LVL	0.03	19.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	17	25	10/21/08	0.194	0.59	0.505	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	GENINORG	Bromide	0.59	1.2	LANL Int BG LVL	0.03	19.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	17	27	10/21/08	59.5	71.7	66.5	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	GENINORG	Calcium	70.3	1.1	LANL Int BG LVL	17.31	4.1	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	17	27	10/21/08	59.5	71.7	66.5	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	GENINORG	Calcium	69.4	1	LANL Int BG LVL	17.31	4	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	17	25	10/21/08	53.4	67.8	58.7	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	GENINORG	Chloride	61.5	1	LANL Int BG LVL	7.78	7.9	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	17	25	10/21/08	53.4	67.8	58.7	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	GENINORG	Chloride	59.8	1	LANL Int BG LVL	7.78	7.7	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	17	32	10/21/08	433	658	509	32	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	METALS	Chromium	453	0.9	LANL Int BG LVL	1	453	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	32	10/21/08	433	658	509	32	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	METALS	Chromium	491	1	LANL Int BG LVL	1	491	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	27	10/21/08	13.1	16.6	15.3	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	GENINORG	Magnesium	16.4	1.1	LANL Int BG LVL	6.12	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	17	27	10/21/08	13.1	16.6	15.3	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	GENINORG	Magnesium	16.2	1.1	LANL Int BG LVL	6.12	2.6	0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	17	27	10/21/08	14.5	19.3	16.9	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	METALS	Nickel	15.9	0.9	LANL Int BG LVL	1	15.9	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	27	10/21/08	14.5	19.3	16.9	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	METALS	Nickel	17.6	1	LANL Int BG LVL	1	17.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	25	10/21/08	0.936	1.12	1.02	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	GENINORG	Perchlorate	1.02	1	LANL Int BG LVL	0.05	20.4	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	17	25	10/21/08	0.936	1.12	1.02	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	GENINORG	Perchlorate	1.03	1	LANL Int BG LVL	0.05	20.6	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	17	27	10/21/08	278	350	320	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	METALS	Strontium	338	1.1	LANL Int BG LVL	154.8	2.2	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	17	27	10/21/08	278	350	320	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	METALS	Strontium	336	1.1	LANL Int BG LVL	154.8	2.2	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	17	25	10/21/08	83.3	101	87.1	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	GENINORG	Sulfate	88	1	LANL Int BG LVL	40.03	2.2	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	17	25	10/21/08	83.3	101	87.1	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	GENINORG	Sulfate	85.4	1	LANL Int BG LVL	40.03	2.1	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	17	25	10/21/08	354	451	412	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	GENINORG	Total Dissolved Solids	400	1	LANL Int BG LVL	127	3.1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	17	25	10/21/08	354	451	412	25	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	GENINORG	Total Dissolved Solids	396	1	LANL Int BG LVL	127	3.1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	17	27	10/21/08	1.2	1.96	1.43	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	FD	F	INIT	RAD	Uranium	1.63	1.1	LANL Int BG LVL	0.72	2.3	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	27	10/21/08	1.2	1.96	1.43	27	Sandia Canyon	Intermediate	SCI-2	548	08/13/12	REG	F	INIT	RAD	Uranium	1.83	1.3	LANL Int BG LVL	0.72	2.5	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	19	19	09/18/00	33	122	53.3	17	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	F	INIT	METALS	Boron	53.4	1	LANL Int BG LVL	15.12	3.5	15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	18	19	09/18/00	0.07	0.128	0.102	10	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	F	INIT	GENINORG	Bromide	0.121	1.2	LANL Int BG LVL	0.03	4	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	18	19	09/18/00	9.52	19.8	14.6	19	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	F	INIT	GENINORG	Chloride	19.8	1.4	LANL Int BG LVL	7.78	2.5	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	19	19	09/18/00	35.8	860	161	19	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	F	INIT	METALS	Manganese	138	0.9	LANL Int BG LVL	2	69	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	19	19	09/18/00	0.91	5.1	2.22	17	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	F	INIT	METALS	Nickel	2.87	1.3	LANL Int BG LVL	1	2.9	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	14	14	06/16/05	0.193	0.478	0.279	12	Sandia Canyon	Intermediate	R-12 S1	459	08/20/12	REG	F	INIT	GENINORG	Perchlorate	0.478	1.7	LANL Int BG LVL	0.05	9.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	18	19	09/19/00	23.6	180	38	19	Sandia Canyon	Intermediate	R-12 S2	504.5	08/20/12	REG	F	INIT	METALS	Manganese	31.6	0.8	LANL Int BG LVL	2	15.8	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	14	15	02/01/06	0.846	1.16	0.971	14	Sandia Canyon	Intermediate	R-12 S2	504.5	08/20/12	REG	F	INIT	GENINORG	Perchlorate	0.901	0.9	LANL Int BG LVL	0.05	18	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	3	4	03/26/12	129	198	155	4	Sandia Canyon	Regional	R-62	1158.4	08/08/12	REG	F	INIT	METALS	Chromium	175	1.1	LANL Reg BG LVL	5.75	30.4	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	3	4	03/26/12	14.1	37.5	15.85	4	Sandia Canyon	Regional	R-62	1158.4	08/08/12	REG	F	INIT	METALS	Zinc	16.8	1.1	LANL Reg BG LVL	3.89	4.3	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	15	21	11/05/08	2.35	42.2	8.55	18	Sandia Canyon	Regional	R-43 S1	903.9	08/14/12	REG	F	INIT	METALS	Chromium	42.2	4.9	LANL Reg BG LVL	5.75	7.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	results are increasing
C5	15	15	11/05/08	5.14	6.03	5.505	14	Sandia Canyon	Regional	R-43 S1	903.9	08/14/12	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	5.92	1.1	LANL Reg BG LVL	0.89	6.7	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	15	16	11/05/08	0.678	0.99	0.944	16	Sandia Canyon	Regional	R-43 S1	903.9	08/14/12	REG	F	INIT	GENINORG	Perchlorate	0.99	1	LANL Reg BG LVL	0.46	2.2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	30	38	05/17/05	13.5	34.9	20.5	38	Sandia Canyon	Regional	R-11	855	08/17/12	REG	F	INIT	METALS	Chromium	20.3	1	LANL Reg BG LVL	5.75	3.5	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	35	05/17/05	2.27	7.43	5.04	35	Sandia Canyon	Regional	R-11	855	08/17/12	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	5.26	1	LANL Reg BG LVL	0.89	5.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	28	41	06/15/05	25.4	51.3	35.1	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	METALS	Boron	50.8	1.4	LANL Int BG LVL	15.12	3.4	15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	28	41	06/15/05	0.212	0.692	0.603	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Bromide	0.633	1	LANL Int BG LVL	0.03	21.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	41	06/15/05	42.8	75.5	64.4	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Calcium	67	1	LANL Int BG LVL	17.31	3.9	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	28	41	06/15/05	21.2	64.8	44.7	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Chloride	54.8	1.2	LANL Int BG LVL	7.78	7	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	28	44	06/15/05	29.4	65.5	47.95	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	METALS	Chromium	64.6	1.3	LANL Int BG LVL	1	64.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	41	06/15/05	0.412	0.635	0.538	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Fluoride	0.503	0.9	LANL Int BG LVL	0.23	2.2	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	41	06/15/05	8.49	15.7	12.8	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Magnesium	13.5	1.1	LANL Int BG LVL	6.12	2.2	0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	28	41	06/15/05	2.9	40.8	8.8	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	METALS	Nickel	40.1	4.6	LANL Int BG LVL	1	40.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	41	06/15/05	7.67	20.4	13.6	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	7.96	0.6	LANL Int BG LVL	2.41	3.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	28	41	06/15/05	59.4	246	102	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Perchlorate	60.6	0.6	LANL Int BG LVL	0.05	1212	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	28	41	06/15/05	19.5	28.3	24	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Sodium	27.4	1.1	LANL Int BG LVL	12.19	2.2	0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	28	41	06/15/05	196	339	275	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	METALS	Strontium	322	1.2	LANL Int BG LVL	154.8	2.1	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	28	41	06/15/05	298	497	401	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	GENINORG	Total Dissolved Solids	419	1	LANL Int BG LVL	127	3.3	3.4	mg/L	1		J	I10a	EPA:160.1	GELC	
C5	28	41	06/15/05	23.7	288	36.7	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	08/17/12	REG	F	INIT	METALS	Zinc	30.2	0.8	LANL Int BG LVL	2	15.1	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	