

SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN FEBRUARY 2010

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. This report contains results for chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent (Consent Order), modified May 13, 2008. 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 2-10 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 are often similar to data gathered before June 14, 2007. Over time, the data that exceed the reference data have decreased substantially.

This table includes additional comments on the significance of the results for those that appear to be exceptional or are first-time occurrences of results based on considering monitoring data acquired before June 14, 2007 (using statistics described below).

The table contains supplemental information summarizing monitoring results obtained before June 14, 2007.

The table includes sampling date, the name of the well or spring, the location of the well or spring, the depth of the screened interval, the 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. The definitions for abbreviations in the table may be found at <http://www.lanl.gov/environment/all/racer.shtml>.

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). In the table, the EPA Regional Screening Levels for tap water are identified as being for cancer (10^{-5} excess) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values, 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: these are labeled (in the first column) C1 through C6 for the numbered criteria and CA for cases where the concentration of a constituent in a well screen or spring has not previously exceeded either the New Mexico Water Quality Control Commission (NMWQCC) standard or the federal MCLs.

Some data meet more than one criterion and appear in the table multiple times. 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 over a longer time frame than samples collected after June 14, 2007. The columns provide summary statistics on 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 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

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

Start Date—sample date

Fld QC Type Code—identifies samples that are field duplicates (definitions for these and other abbreviations may be found at <http://www.lanl.gov/environment/all/racer.shtml>)

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—gives 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—the analytical result in standard measurement units

Result/Median—the ratio of the Std Result to the median of all detections since 2000

LVL Type/Risk Code—the type of regulatory standard, screening level, or background value (indicating groundwater zone) used for comparison

Screen Level—the value of the LVL Type/Risk Code

Exceedance Ratio—the ratio of Std Result to LVL Type/Risk Code, divided by the basis for comparison in the criterion. For example, for a criterion (such as C3) that compares the value to 1/2 the standard, a value equal to a standard has an exceedance ratio of 2.

- C1, C2, and CA refer to a screening value so the exceedance ratio compares the result directly to the screening value.
- C3, C4, and C6 refer to 1/2 of a screening value so the exceedance ratio compares the result to 1/2 the screening value.
- C5 refers to 2 times a screening value so the exceedance ratio compares the result to 2 times the screening value.

Std Mdl—the method detection limit in standard measurement units

Std UOM—the standard units of measurement

Dilution Factor—amount by which the sample was diluted to measure the concentration

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

Concat Flag Code—concatenated secondary validation qualifiers produced by an independent contractor who reviews data packages, verifying, for example, that holding times were met, that all documentation is present, and that analytical laboratory quality control measures were applied, documented, and kept within contract requirements

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

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—a comment on the analytical result

Table 1: NMED 2-10 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C1	4	4	07/13/09	0.00000257	0.00000257	0.00000257	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	929.3	12/18/09		UF	CS	DIOX/FUR	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	39001-02-0	0.00000257	1.00				0.00000257	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	7	07/13/09	20.9	21.5	21.2	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	929.3	12/18/09	FD	UF	CS	VOA	Acetone	67-64-1	21.5	1.01	EPA TAP SCRNLVL N	22000	0.0	3.5	ug/L	1				SW-846:8260B	GELC	
C1	4	7	07/13/09	20.9	21.5	21.2	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	929.3	12/18/09		UF	CS	VOA	Acetone	67-64-1	20.9	0.99	EPA TAP SCRNLVL N	22000	0.0	3.5	ug/L	1				SW-846:8260B	GELC	
C1	3	5	06/22/09	2.19	2.29	2.24	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	12/18/09	FD	UF	CS	SVOA	Dioxane[1,4-]	123-91-1	2.19	0.98	EPA TAP SCRNLVL C-5	61	0.0	2.2	ug/L	1	J	J	SV7c	SW-846:8270C	GELC	this is first detect in deeper port- also third in shallow port this round
C1	3	5	06/22/09	2.19	2.29	2.24	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	12/18/09		UF	CS	SVOA	Dioxane[1,4-]	123-91-1	2.29	1.02	EPA TAP SCRNLVL C-5	61	0.0	2.2	ug/L	1	J	J	SV7c	SW-846:8270C	GELC	this is first detect in deeper port- also third in shallow port this round
C1	1	1	11/19/09	17.6	17.6	17.6	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	11/19/09		UF	CS	VOA	Acetone	67-64-1	17.6	1.00	EPA TAP SCRNLVL N	22000	0.0	3.5	ug/L	1		J	V7c	SW-846:8260B	GELC	
C1	1	1	11/19/09	0.375	0.375	0.375	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/19/09		UF	CS	VOA	Trichloroethene	79-01-6	0.375	1.00	EPA MCL	5	0.1	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	first sample since rehab
C1	3	4	06/09/09	0.00000193	0.00000193	0.00000193	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		UF	CS	DIOX/FUR	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	39001-02-0	0.00000193	1.00				0.00000193	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	
C1	2	2	04/21/09	0.011	0.011	0.011	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	12/04/09		UF	CS	PEST/PCB	Chlordane[gamma-]	5103-74-2	0.011	1.00				0.0058	ug/L	1	JP	J	J_LAB	SW-846:8081A	GELC	possible analytical cross-contamination
C1	2	2	04/21/09	0.0196	0.0196	0.0196	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	12/04/09		UF	CS	PEST/PCB	Heptachlor	76-44-8	0.0196	1.00	EPA MCL	0.4	0.1	0.0058	ug/L	1	J	J	J_LAB	SW-846:8081A	GELC	possible analytical cross-contamination
C1	10	11	08/16/06	0.32	0.32	0.32	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1412.9	12/02/09		UF	CS	VOA	Diethyl Ether	60-29-7	0.32	1.00	EPA TAP SCRNLVL N	7300	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	20	32	10/17/02	0.27	0.27	0.27	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-23	816	12/09/09		UF	CS	VOA	Trimethylbenzene[1,2,4-]	95-63-6	0.27	1.00	EPA TAP SCRNLVL N	15	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	13	13	01/11/07	2	8.56	2.2	5	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Arsenic	As	8.56	3.89	LANL Int BG LVL	4.32	2.0	1.5	ug/L	1				SW-846:6020	GELC	previous results estimated or nondetect
C2	13	15	01/11/07	3.7	8.13	4.3	3	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Copper	Cu	8.13	1.89	LANL Int BG LVL	5.32	1.5	3	ug/L	1				SW-846:6010B	GELC	
C2	6	10	10/21/08	2.4	4.62	3.2	3	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	METALS	Arsenic	As	4.62	1.44	LANL Int BG LVL	4.32	1.1	1.5	ug/L	1				SW-846:6020	GELC	previous results estimated or nondetect
C2	4	9	11/10/08	1.8	5.79	2.45	4	Sandia Canyon	Regional	R-43	969.1	11/19/09		F	CS	METALS	Chromium	Cr	5.79	2.36	LANL Reg BG LVL	5.75	1.0	2.5	ug/L	1				SW-846:6020	GELC	
C2	4	6	11/10/08	0.77	3.71	1.15	6	Sandia Canyon	Regional	R-43	969.1	11/19/09		F	CS	METALS	Nickel	Ni	3.71	3.23	LANL Reg BG LVL	3.09	1.2	0.5	ug/L	1				SW-846:6020	GELC	
C2	3	3	06/22/09	3.58	7.86	5.94	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	12/18/09		F	CS	GENINORG	Sulfate	SO4(-2)	7.86	1.32	LANL Reg BG LVL	7.2	1.1	0.1	mg/L	1				EPA:300.0	GELC	
C2	1	1	11/19/09	2.88	2.88	2.88	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	11/19/09		F	CS	GENINORG	Potassium	K	2.88	1.00	LANL Reg BG LVL	2.63	1.1	0.05	mg/L	1				SW-846:6010B	GELC	
C2	1	1	11/19/09	0.542	0.542	0.542	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	11/19/09		UF	CS	GENINORG	Total Organic Carbon	TOC	0.542	1.00	LANL Reg BG LVL	0.33	1.6	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	1	1	11/19/09	14.1	14.1	14.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	11/19/09		F	CS	METALS	Vanadium	V	14.1	1.00	LANL Reg BG LVL	13.41	1.1	1	ug/L	1				SW-846:6010B	GELC	
C2	1	1	11/19/09	14.6	14.6	14.6	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	11/19/09		F	CS	METALS	Zinc	Zn	14.6	1.00	LANL Reg BG LVL	3.89	3.8	3.3	ug/L	1				SW-846:6010B	GELC	
C2	6	7	06/23/08	0.102	0.105	0.104	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	3MAO-2	14.7	12/16/09		F	CS	GENINORG	Bromide	Br(-1)	0.105	1.01	LANL Avl BG LVL	0.07	1.5	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	6	7	06/23/08	0.102	0.105	0.104	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	3MAO-2	14.7	12/16/09	FD	F	CS	GENINORG	Bromide	Br(-1)	0.102	0.98	LANL Avl BG LVL	0.07	1.5	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Flt QC Type Code	Flt 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	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C2	6	7	06/23/08	0.145	0.284	0.17	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	3MAO-2	14.7	12/16/09		F	CS	GENINORG	Fluoride	F(-1)	0.284	1.67	LANL Avl BG LVL	0.27	1.1	0.033	mg/L	1				EPA:300.0	GELC	Highest ever detected - lab error
C2	7	7	06/22/08	0.102	0.102	0.102	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7c	9.7	12/10/09		F	CS	GENINORG	Bromide	Br(-1)	0.102	1.00	LANL Avl BG LVL	0.07	1.5	0.066	mg/L	1	HJ	J-	I9	EPA:300.0	GELC	
C2	7	7	06/22/08	32	57.1	38.4	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7c	9.7	12/10/09		F	CS	METALS	Boron	B	57.1	1.49	LANL Avl BG LVL	51.89	1.1	15	ug/L	1				SW-846:6010B	GELC	
C2	2	2	04/21/09	5.84	6.77	6.31	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	12/04/09		F	CS	GENINORG	Magnesium	Mg	6.77	1.07	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C2	2	2	04/21/09	2.69	2.69	2.69	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	12/04/09		F	CS	METALS	Cobalt	Co	2.69	1.00	LANL Int BG LVL	0.5	5.4	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	17	17	04/09/01	2.08	23	4.3	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1412.9	12/02/09		F	CS	METALS	Manganese	Mn	6.44	1.50	LANL Reg BG LVL	2.94	2.2	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	4	01/15/09	1.01	1.01	1.01	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-40	849.3	12/03/09		F	CS	METALS	Cobalt	Co	1.01	1.00	LANL Reg BG LVL	0.5	2.0	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	3	06/18/09	1.02	1.02	1.02	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-49	905.6	12/09/09		F	CS	METALS	Cobalt	Co	1.02	1.00	LANL Reg BG LVL	0.5	2.0	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	12/11/09	0.124	0.124	0.124	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	12/11/09		F	CS	GENINORG	Perchlorate	ClO4	0.124	1.00	LANL Int BG LVL	0.05	2.5	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C2	1	1	12/11/09	134	134	134	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	12/11/09		F	CS	GENINORG	Total Dissolved Solids	TDS	134	1.00	LANL Int BG LVL	127	1.1	2.4	mg/L	1				EPA:160.1	GELC	
C2	1	1	12/11/09	10.6	10.6	10.6	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	12/11/09		F	CS	METALS	Manganese	Mn	10.6	1.00	LANL Int BG LVL	2	5.3	2	ug/L	1				SW-846:6010B	GELC	
C2	1	1	12/11/09	70.7	70.7	70.7	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	12/11/09		F	CS	METALS	Silicon Dioxide	SiO2	70.7	1.00	LANL Int BG LVL	50.72	1.4	0.053	mg/L	1				SW-846:6010B	GELC	
C2	1	1	12/11/09	7.68	7.68	7.68	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	12/11/09		F	CS	METALS	Zinc	Zn	7.68	1.00	LANL Int BG LVL	2	3.8	3.3	ug/L	1				SW-846:6010B	GELC	
C3	13	13	01/11/07	1.9	6.68	2.58	5	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		UF	CS	METALS	Arsenic	As	6.68	2.59	EPA MCL	10	1.3	1.5	ug/L	1				SW-846:6020	GELC	previous results estimated or nondetect
C3	13	13	01/11/07	2	8.56	2.2	5	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Arsenic	As	8.56	3.89	EPA MCL	10	1.7	1.5	ug/L	1				SW-846:6020	GELC	previous results estimated or nondetect
C3	3	4	10/21/08	0.00797	0.304	0.00893	4	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		UF	CS	GENINORG	Cyanide (Total)	CN(TOTAL)	0.304	34.04	EPA MCL	0.2	3.0	0.0083	mg/L	5				EPA:335.4	GELC	3 prior results of about 0.008
C3	18	24	05/17/05	1.6	7.41	1.9	3	Sandia Canyon	Regional	R-11	855	11/18/09		UF	CS	METALS	Arsenic	As	7.41	3.90	EPA MCL	10	1.5	1.5	ug/L	1				SW-846:6020	GELC	previous external lab results estimated or nondetect
C3	18	24	05/17/05	2	5.14	3.57	2	Sandia Canyon	Regional	R-11	855	11/18/09		F	CS	METALS	Arsenic	As	5.14	1.44	EPA MCL	10	1.0	1.5	ug/L	1				SW-846:6020	GELC	previous results estimated or nondetect
C3	6	9	06/09/08	9.6	26.5	20.2	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Cobalt	Co	26.1	1.29	NM GW STD	50	1.0	1	ug/L	1				SW-846:6010B	GELC	highest 2009 groundwater values, may behave similar to manganese- well located in wetland, reducing conditions, high TOC, organic-metal colloids
C3	6	9	06/09/08	9.6	26.5	20.2	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Cobalt	Co	26.5	1.31	NM GW STD	50	1.1	1	ug/L	1				SW-846:6010B	GELC	highest 2009 groundwater values, may behave similar to manganese- well located in wetland, reducing conditions, high TOC, organic-metal colloids
C3	2	2	04/21/09	45.7	400	222.9	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	12/04/09		F	CS	METALS	Manganese	Mn	400	1.79	NM GW STD	200	4.0	2	ug/L	1				SW-846:6010B	GELC	
C3	3	3	06/23/09	0.994	8.85	2.22	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-49	845	12/07/09		UF	CS	METALS	Lead	Pb	8.85	3.99	EPA MCL	15	1.2	0.5	ug/L	1				SW-846:6020	GELC	filtered sample was nondetect
C5	13	13	01/11/07	1.06	1.53	1.26	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Bromide	Br(-1)	1.11	0.88	LANL Int BG LVL	0.03	18.5	0.066	mg/L	1				EPA:300.0	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Flt QC Type Code	Flt 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	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	13	15	01/11/07	69.4	87.6	79	14	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Calcium	Ca	71.8	0.91	LANL Int BG LVL	17.31	2.1	0.05	mg/L	1				SW-846:6010B	GELC	
C5	13	13	01/11/07	82	98.7	89.8	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Chloride	Cl(-1)	86.9	0.97	LANL Int BG LVL	7.78	5.6	0.66	mg/L	10				EPA:300.0	GELC	
C5	13	13	01/11/07	0.932	1.58	1.41	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Perchlorate	ClO4	0.932	0.66	LANL Int BG LVL	0.05	9.3	0.05	ug/L	1				SW-846:6850	GELC	
C5	13	15	01/11/07	50.7	62.1	54.2	14	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Sodium	Na	55.9	1.03	LANL Int BG LVL	12.19	2.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	13	13	01/11/07	0.404	1.01	0.801	12	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.404	0.50	LANL Int BG LVL	0.08	2.5	0.015	mg/L	1		J	I4a	EPA:365.4	GELC	
C5	13	13	01/11/07	100	112	105	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Sulfate	SO4(-2)	102	0.97	LANL Int BG LVL	40.03	1.3	1	mg/L	10				EPA:300.0	GELC	
C5	13	13	01/11/07	455	536	497	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	GENINORG	Total Dissolved Solids	TDS	465	0.94	LANL Int BG LVL	127	1.8	2.4	mg/L	1				EPA:160.1	GELC	
C5	13	15	01/11/07	79.8	98	93.9	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Boron	B	81.4	0.87	LANL Int BG LVL	15.12	2.7	15	ug/L	1				SW-846:6010B	GELC	
C5	13	16	01/11/07	11	22.1	14.4	16	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Chromium	Cr	16.4	1.14	LANL Int BG LVL	1	8.2	2.5	ug/L	1				SW-846:6020	GELC	
C5	13	14	01/11/07	43.9	93.9	63	14	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Molybdenum	Mo	93.9	1.49	LANL Int BG LVL	2	23.5	0.1	ug/L	1				SW-846:6020	GELC	
C5	13	13	01/11/07	4.3	8.1	5.8	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Nickel	Ni	6.62	1.14	LANL Int BG LVL	1	3.3	0.5	ug/L	1				SW-846:6020	GELC	
C5	13	13	01/11/07	1.8	3.05	2.5	13	Sandia Canyon	Intermediate	SCI-1	358.4	11/18/09		F	CS	METALS	Uranium	U	1.94	0.78	LANL Int BG LVL	0.72	1.4	0.05	ug/L	1				SW-846:6020	GELC	
C5	6	8	10/21/08	0.194	0.498	0.42	8	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	GENINORG	Bromide	Br(-1)	0.468	1.11	LANL Int BG LVL	0.03	7.8	0.066	mg/L	1				EPA:300.0	GELC	
C5	6	10	10/21/08	59.5	66.2	62.8	10	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	GENINORG	Calcium	Ca	66.2	1.05	LANL Int BG LVL	17.31	1.9	0.05	mg/L	1				SW-846:6010B	GELC	
C5	6	8	10/21/08	53.4	62.1	56.2	8	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	GENINORG	Chloride	Cl(-1)	54.7	0.97	LANL Int BG LVL	7.78	3.5	0.66	mg/L	10				EPA:300.0	GELC	
C5	6	8	10/21/08	0.936	1.12	0.985	8	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	GENINORG	Perchlorate	ClO4	1.12	1.14	LANL Int BG LVL	0.05	11.2	0.1	ug/L	2				SW-846:6850	GELC	
C5	6	8	10/21/08	85	101	87	8	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	GENINORG	Sulfate	SO4(-2)	85	0.98	LANL Int BG LVL	40.03	1.1	1	mg/L	10				EPA:300.0	GELC	
C5	6	8	10/21/08	354	425	392	8	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	GENINORG	Total Dissolved Solids	TDS	425	1.08	LANL Int BG LVL	127	1.7	2.4	mg/L	1				EPA:160.1	GELC	
C5	6	15	10/21/08	471	658	562	15	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	METALS	Chromium	Cr	630	1.12	LANL Int BG LVL	1	315.0	25	ug/L	10				SW-846:6020	GELC	
C5	6	15	10/21/08	471	658	562	15	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	METALS	Chromium	Cr	637	1.13	LANL Int BG LVL	1	318.5	2.5	ug/L	1				SW-846:6020	GELC	
C5	6	10	10/21/08	14.5	19	16.2	10	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		F	CS	METALS	Nickel	Ni	19	1.17	LANL Int BG LVL	1	9.5	0.5	ug/L	1				SW-846:6020	GELC	
C5	4	4	11/05/08	0.699	1.52	1.065	4	Sandia Canyon	Regional	R-43	903.9	11/19/09		UF	CS	GENINORG	Total Organic Carbon	TOC	0.699	0.66	LANL Reg BG LVL	0.33	1.1	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	18	24	05/17/05	3.41	7.43	5	24	Sandia Canyon	Regional	R-11	855	11/18/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.98	1.00	LANL Reg BG LVL	0.89	2.8	0.1	mg/L	10				EPA:353.2	GELC	
C5	19	28	05/17/05	13.5	34.9	21	28	Sandia Canyon	Regional	R-11	855	11/18/09		F	CS	METALS	Chromium	Cr	20	0.95	LANL Reg BG LVL	5.75	1.7	2.5	ug/L	1				SW-846:6020	GELC	
C5	11	12	10/12/06	7.9	37.6	11.2	12	Sandia Canyon	Regional	R-10	874	11/10/09		F	CS	METALS	Zinc	Zn	14.1	1.26	LANL Reg BG LVL	3.89	1.8	3.3	ug/L	1				SW-846:6010B	GELC	
C5	13	13	06/29/06	6.6	48.7	10.4	13	Sandia Canyon	Regional	R-10	1042	11/10/09		F	CS	METALS	Zinc	Zn	16	1.54	LANL Reg BG LVL	3.89	2.1	3.3	ug/L	1				SW-846:6010B	GELC	
C5	10	11	11/14/06	0.298	0.411	0.333	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	CDBO-6	34	12/16/09		F	CS	GENINORG	Perchlorate	ClO4	0.298	0.89	LANL Avl BG LVL	0.05	3.0	0.05	ug/L	1				SW-846:6850	GELC	
C5	8	8	07/07/06	112	260	213	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	11/09/09		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	214	1.00	LANL Int BG LVL	52	2.1	0.73	mg/L	1				EPA:310.1	GELC	
C5	8	8	07/07/06	0.343	0.449	0.386	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	11/09/09		F	CS	GENINORG	Bromide	Br(-1)	0.396	1.03	LANL Int BG LVL	0.03	6.6	0.066	mg/L	1				EPA:300.0	GELC	
C5	8	8	07/07/06	67.6	79	73	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	11/09/09		F	CS	GENINORG	Chloride	Cl(-1)	72	0.99	LANL Int BG LVL	7.78	4.6	0.66	mg/L	10				EPA:300.0	GELC	
C5	9	9	07/07/06	1.52	2.44	1.63	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	11/09/09		F	CS	GENINORG	Perchlorate	ClO4	1.89	1.16	LANL Int BG LVL	0.05	18.9	0.2	ug/L	4				SW-846:6850	GELC	
C5	8	8	07/07/06	0.855	1.41	0.96	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	11/09/09		F	CS	GENINORG	Fluoride	F(-1)	0.954	0.99	LANL Int BG LVL	0.23	2.1	0.033	mg/L	1				EPA:300.0	GELC	
C5	8	8	07/07/06	3.64	740	9.49	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	11/09/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.18	0.86	LANL Int BG LVL	2.41	1.7	0.25	mg/L	25				EPA:353.2	GELC	
C5	8	10	07/07/06	528	582	554	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	11/09/09		F	CS	GENINORG	Total Dissolved Solids	TDS	582	1.05	LANL Int BG LVL	127	2.3	2.4	mg/L	1				EPA:160.1	GELC	
C5	4	4	07/13/09	9.02	115	21.75	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	929.3	12/18/09		F	CS	METALS	Zinc	Zn	9.02	0.41	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	4	4	02/06/09	10.6	27.5	15	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	12/17/09		F	CS	METALS	Nickel	Ni	10.6	0.71	LANL Reg BG LVL	3.09	1.7	0.5	ug/L	1				SW-846:6020	GELC	
C5	4	4	02/06/09	19.3	69	32	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	12/17/09		F	CS	METALS	Zinc	Zn	19.3	0.60	LANL Reg BG LVL	3.89	2.5	3.3	ug/L	1				SW-846:6010B	GELC	
C5	6	9	06/09/08	197	444	337	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	274	0.81	LANL Avl BG LVL	76	1.8	0.73	mg/L	1				EPA:310.1	GELC	
C5	6	9	06/09/08	197	444	337	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	277	0.82	LANL Avl BG LVL	76	1.8	0.73	mg/L	1				EPA:310.1	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Flt QC Type Code	Flt 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	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	6	9	06/09/08	54.5	114	85.1	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	GENINORG	Calcium	Ca	73.4	0.86	LANL Avl BG LVL	26.36	1.4	0.05	mg/L	1				SW-846:6010B	GELC	
C5	6	9	06/09/08	54.5	114	85.1	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	GENINORG	Calcium	Ca	74.1	0.87	LANL Avl BG LVL	26.36	1.4	0.05	mg/L	1				SW-846:6010B	GELC	
C5	6	9	06/09/08	0.891	1.66	1.3	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.983	0.76	LANL Avl BG LVL	0.04	12.3	0.016	mg/L	1				EPA:350.1	GELC	
C5	6	9	06/09/08	0.891	1.66	1.3	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	1.12	0.86	LANL Avl BG LVL	0.04	14.0	0.016	mg/L	1				EPA:350.1	GELC	
C5	6	9	06/09/08	292	522	417	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	GENINORG	Total Dissolved Solids	TDS	359	0.86	LANL Avl BG LVL	139	1.3	2.4	mg/L	1				EPA:160.1	GELC	
C5	6	9	06/09/08	292	522	417	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	GENINORG	Total Dissolved Solids	TDS	367	0.88	LANL Avl BG LVL	139	1.3	2.4	mg/L	1				EPA:160.1	GELC	
C5	6	9	06/09/08	281	601	436	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Barium	Ba	508	1.17	LANL Avl BG LVL	68.57	3.7	1	ug/L	1				SW-846:6010B	GELC	280 to 601 ug/L since 6-08
C5	6	9	06/09/08	281	601	436	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Barium	Ba	505	1.16	LANL Avl BG LVL	68.57	3.7	1	ug/L	1				SW-846:6010B	GELC	280 to 601 ug/L since 6-08
C5	6	9	06/09/08	9.6	26.5	20.2	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Cobalt	Co	26.1	1.29	LANL Avl BG LVL	0.5	26.1	1	ug/L	1				SW-846:6010B	GELC	highest 2009 groundwater values, may behave similar to manganese- well located in wetland, reducing conditions, high TOC, organic-metal colloids
C5	6	9	06/09/08	9.6	26.5	20.2	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Cobalt	Co	26.5	1.31	LANL Avl BG LVL	0.5	26.5	1	ug/L	1				SW-846:6010B	GELC	highest 2009 groundwater values, may behave similar to manganese- well located in wetland, reducing conditions, high TOC, organic-metal colloids
C5	6	9	06/09/08	6040	17500	11900	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Manganese	Mn	13300	1.12	LANL Avl BG LVL	2	3325.0	20	ug/L	10				SW-846:6010B	GELC	highest 2009 groundwater values, also high Fe, turbidity below 2 NTU
C5	6	9	06/09/08	6040	17500	11900	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Manganese	Mn	14000	1.18	LANL Avl BG LVL	2	3500.0	40	ug/L	20				SW-846:6010B	GELC	highest 2009 groundwater values, also high Fe, turbidity below 2 NTU
C5	6	9	06/09/08	6.8	10.5	8.2	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Molybdenum	Mo	10	1.22	LANL Avl BG LVL	2	2.5	0.1	ug/L	1				SW-846:6020	GELC	
C5	6	9	06/09/08	6.8	10.5	8.2	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Molybdenum	Mo	10.5	1.28	LANL Avl BG LVL	2	2.6	0.1	ug/L	1				SW-846:6020	GELC	
C5	6	9	06/09/08	5.8	14.9	10.5	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Nickel	Ni	10.7	1.02	LANL Avl BG LVL	1	5.4	0.5	ug/L	1				SW-846:6020	GELC	
C5	6	9	06/09/08	5.8	14.9	10.5	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Nickel	Ni	11.2	1.07	LANL Avl BG LVL	1	5.6	0.5	ug/L	1				SW-846:6020	GELC	
C5	6	9	06/09/08	379	777	551	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Strontium	Sr	518	0.94	LANL Avl BG LVL	120	2.2	1	ug/L	1				SW-846:6010B	GELC	
C5	6	9	06/09/08	379	777	551	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Strontium	Sr	507	0.92	LANL Avl BG LVL	120	2.1	1	ug/L	1				SW-846:6010B	GELC	
C5	6	9	06/09/08	0.34	16.5	0.42	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Uranium	U	4	9.52	LANL Avl BG LVL	1.03	1.9	0.05	ug/L	1				SW-846:6020	GELC	
C5	6	9	06/09/08	0.34	16.5	0.42	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Uranium	U	3.84	9.14	LANL Avl BG LVL	1.03	1.9	0.05	ug/L	1				SW-846:6020	GELC	
C5	6	9	06/09/08	5.2	6.83	5.6	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09		F	CS	METALS	Zinc	Zn	5.84	1.04	LANL Avl BG LVL	2	1.5	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port 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	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	6	9	06/09/08	5.2	6.83	5.6	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/17/09	FD	F	CS	METALS	Zinc	Zn	6.83	1.22	LANL Avl BG LVL	2	1.7	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	7	7	06/22/08	0.251	0.322	0.3	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7a	9.7	12/11/09		F	CS	GENINORG	Perchlorate	CIO4	0.322	1.07	LANL Avl BG LVL	0.05	3.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	7	7	06/22/08	0.765	4.72	1.74	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7a	9.7	12/11/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.72	2.71	LANL Avl BG LVL	0.57	4.1	0.05	mg/L	5				EPA:353.2	GELC	similar to nearby PCAO-7b2
C5	7	7	06/22/08	21	48.3	27.5	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7a	9.7	12/11/09		F	CS	GENINORG	Sodium	Na	48.3	1.76	LANL Avl BG LVL	15.54	1.6	0.1	mg/L	1				SW-846:6010B	GELC	
C5	7	7	06/22/08	161	471	240	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7a	9.7	12/11/09		F	CS	GENINORG	Total Dissolved Solids	TDS	365	1.52	LANL Avl BG LVL	139	1.3	2.4	mg/L	1				EPA:160.1	GELC	
C5	7	7	06/22/08	88.9	286	164	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7a	9.7	12/11/09		F	CS	METALS	Barium	Ba	267	1.63	LANL Avl BG LVL	68.57	2.0	1	ug/L	1				SW-846:6010B	GELC	
C5	7	7	06/22/08	114	365	221	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7a	9.7	12/11/09		F	CS	METALS	Strontium	Sr	333	1.51	LANL Avl BG LVL	120	1.4	1	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	18.5	610	125	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	GENINORG	Chloride	Cl(-1)	18.6	0.15	LANL Int BG LVL	7.78	1.2	0.066	mg/L	1		J+	I6b	EPA:300.0	GELC	
C5	15	24	06/23/06	18.5	610	125	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	GENINORG	Chloride	Cl(-1)	18.5	0.15	LANL Int BG LVL	7.78	1.2	0.066	mg/L	1		J+	I6b	EPA:300.0	GELC	
C5	15	24	06/23/06	81.1	35600	3300	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	METALS	Aluminum	Al	3870	1.17	LANL Int BG LVL	1065.84	1.8	68	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	81.1	35600	3300	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	METALS	Aluminum	Al	4430	1.34	LANL Int BG LVL	1065.84	2.1	68	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	2.6	14.8	3.5	14	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	METALS	Chromium	Cr	3.33	0.95	LANL Int BG LVL	1	1.7	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	15	24	06/23/06	2.6	14.8	3.5	14	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	METALS	Chromium	Cr	2.69	0.77	LANL Int BG LVL	1	1.4	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	15	24	06/23/06	94.7	21300	2280	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	METALS	Iron	Fe	2280	1.00	LANL Int BG LVL	839.99	1.4	30	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	94.7	21300	2280	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	METALS	Iron	Fe	2550	1.12	LANL Int BG LVL	839.99	1.5	30	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	3.1	681	30.8	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	METALS	Manganese	Mn	12.2	0.40	LANL Int BG LVL	2	3.1	2	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	3.1	681	30.8	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	METALS	Manganese	Mn	14.3	0.46	LANL Int BG LVL	2	3.6	2	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	1.3	14.5	3	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	METALS	Nickel	Ni	3.09	1.03	LANL Int BG LVL	1	1.6	0.5	ug/L	1				SW-846:6020	GELC	
C5	15	24	06/23/06	1.3	14.5	3	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	METALS	Nickel	Ni	2.71	0.90	LANL Int BG LVL	1	1.4	0.5	ug/L	1				SW-846:6020	GELC	
C5	15	24	06/23/06	0.51	20	2.73	20	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	METALS	Lead	Pb	2.66	0.97	LANL Int BG LVL	0.5	2.7	0.5	ug/L	1				SW-846:6020	GELC	
C5	15	24	06/23/06	0.51	20	2.73	20	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	METALS	Lead	Pb	2.42	0.89	LANL Int BG LVL	0.5	2.4	0.5	ug/L	1				SW-846:6020	GELC	
C5	15	24	06/23/06	3.3	83.5	28.1	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09	FD	F	CS	METALS	Zinc	Zn	28.1	1.00	LANL Int BG LVL	2	7.0	3.3	ug/L	1				SW-846:6010B	GELC	
C5	15	24	06/23/06	3.3	83.5	28.1	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/14/09		F	CS	METALS	Zinc	Zn	24.7	0.88	LANL Int BG LVL	2	6.2	3.3	ug/L	1				SW-846:6010B	GELC	
C5	3	3	06/11/09	0.173	0.192	0.174	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	12/14/09		F	CS	GENINORG	Perchlorate	CIO4	0.173	0.99	LANL Int BG LVL	0.05	1.7	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	3	3	06/11/09	5.33	11.5	10.3	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	12/14/09		F	CS	METALS	Manganese	Mn	10.3	1.00	LANL Int BG LVL	2	2.6	2	ug/L	1				SW-846:6010B	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port 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	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	7	7	07/21/05	0.317	0.357	0.342	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	12/03/09		F	CS	GENINORG	Perchlorate	CIO4	0.35	1.02	LANL Int BG LVL	0.05	3.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	4	4	01/28/09	106	372	261	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	649.7	12/04/09		F	CS	METALS	Manganese	Mn	372	1.43	LANL Int BG LVL	2	93.0	2	ug/L	1				SW-846:6010B	GELC	
C5	4	4	01/28/09	9.7	20.2	17	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	649.7	12/04/09		F	CS	METALS	Molybdenum	Mo	20	1.18	LANL Int BG LVL	2	5.0	0.1	ug/L	1				SW-846:6020	GELC	
C5	9	11	09/06/07	6.93	36.7	29.8	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	12/03/09		F	CS	GENINORG	Chloride	Cl(-1)	26.3	0.88	LANL Int BG LVL	7.78	1.7	0.33	mg/L	5				EPA:300.0	GELC	
C5	9	11	09/06/07	0.11	0.236	0.179	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	12/03/09		F	CS	GENINORG	Perchlorate	CIO4	0.223	1.25	LANL Int BG LVL	0.05	2.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	9	11	09/06/07	3.6	21.2	6.4	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	12/03/09		F	CS	METALS	Zinc	Zn	4.27	0.67	LANL Int BG LVL	2	1.1	3.3	ug/L	1	J	J	J LAB	SW-846:6010B	GELC	
C5	13	15	10/03/06	0.146	0.281	0.212	15	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	470.2	12/02/09		F	CS	GENINORG	Perchlorate	CIO4	0.226	1.07	LANL Int BG LVL	0.05	2.3	0.05	ug/L	1		J+	PE12f	SW-846:6850	GELC	
C5	10	11	10/11/06	0.186	0.277	0.236	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	524	12/01/09		F	CS	GENINORG	Perchlorate	CIO4	0.266	1.13	LANL Int BG LVL	0.05	2.7	0.05	ug/L	1		J+	PE12f	SW-846:6850	GELC	
C5	7	7	06/21/08	11.9	27.5	16.8	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	904.6	12/01/09		F	CS	METALS	Manganese	Mn	12.3	0.73	LANL Reg BG LVL	2.94	2.1	2	ug/L	1				SW-846:6010B	GELC	
C5	7	7	06/23/08	113	180	136	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	12/02/09		F	CS	METALS	Barium	Ba	180	1.32	LANL Reg BG LVL	56.83	1.6	1	ug/L	1				SW-846:6010B	GELC	
C5	7	7	06/23/08	47.1	74.3	63.8	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	12/02/09		F	CS	METALS	Manganese	Mn	74.3	1.16	LANL Reg BG LVL	2.94	12.6	2	ug/L	1				SW-846:6010B	GELC	
C5	9	15	12/14/07	27.2	103	43.1	15	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-32	867.5	12/07/09		F	CS	METALS	Zinc	Zn	29.2	0.68	LANL Reg BG LVL	3.89	3.8	3.3	ug/L	1				SW-846:6010B	GELC	
C5	3	3	06/23/09	6.03	27.1	14.6	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-49	845	12/07/09		F	CS	METALS	Manganese	Mn	14.6	1.00	LANL Reg BG LVL	2.94	2.5	2	ug/L	1				SW-846:6010B	GELC	
C6	4	4	01/28/09	154	1410	1139	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	649.7	12/04/09		F	CS	METALS	Iron	Fe	1410	1.24	NM GW STD	1000	2.8	30	ug/L	1				SW-846:6010B	GELC	
C6	4	4	01/28/09	106	372	261	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	649.7	12/04/09		F	CS	METALS	Manganese	Mn	372	1.43	NM GW STD	200	3.7	2	ug/L	1				SW-846:6010B	GELC	
CA	3	4	10/21/08	0.00797	0.304	0.00893	4	Sandia Canyon	Intermediate	SCI-2	548	11/17/09		UF	CS	GENINORG	Cyanide (Total)	CN(TOTAL)	0.304	34.04	EPA MCL	0.2	1.5	0.0083	mg/L	5				EPA:335.4	GELC	3 prior results of about 0.008
CA	2	2	04/21/09	45.7	400	222.9	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	12/04/09		F	CS	METALS	Manganese	Mn	400	1.79	NM GW STD	200	2.0	2	ug/L	1				SW-846:6010B	GELC	