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Date: February 27, 2009
Refer To: EP2009-0075

James P. Bearzi, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

RECEIVED
FEB 2009
NMED Hazardous Waste Bureau

Subject: Review of January 2009 Groundwater Data

Dear Mr. Bearzi:

The Los Alamos National Laboratory (LANL) Water Stewardship Project (LWSP) met on February 12, 2009, to review new groundwater data received in January 2009. At that time, several groundwater samples were identified with contaminant concentrations above the New Mexico or federal water quality standards.

The LWSP program manager notified the New Mexico Environment Department (NMED) Hazardous Waste Bureau about these findings by telephone on February 12, 2009, and followed up with an email on the same day.

The three instances of a contaminant above a standard for the first time (based on samples collected since June 14, 2007) are tabulated in the attached report. Samples collected at these locations before June 14, 2007, also contained the same contaminants at concentrations above a standard, with the following exceptions:

- Antimony was detected in filtered and unfiltered samples at 24.8 µg/L and 7.7 µg/L, respectively, collected from a Pajarito Canyon alluvial groundwater monitoring location named TW-1.72 Spring; the U.S. Environmental Protection Agency maximum contaminant level is 6 µg/L.

This letter is our written submission that indicates in the accompanying report and tables the chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent, modified on May 13, 2008. The report identifies data collected since June 14, 2007, that meet these criteria.

In our December 26, 2008, letter (EP2008-0650) we notified NMED that we had not correctly identified data that meet the criteria 5 and 6 of the Consent Order, modified on May 13, 2008. We have corrected this error and the current report (for data received in January 2009) includes new data that meet these criteria. We are preparing an additional report that includes results meeting these criteria for data received between September 2007 and December 2008.

If you have questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or David Gregory at (505) 667-5808 (dgregory@doeal.gov).

Sincerely,

B. G. Schwell for
Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

MG/DG/PH/AS/DR:sm

Enclosure: Report and accompanying tables: "Summary of New Los Alamos National Laboratory Groundwater Data Loaded in January 2009" (LA-UR-09-0678)

Cy: (w/enc.)
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Keyana DeAguero, DOE-LASO (date-stamped letter emailed)
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Florie Caporuscio, EES-6, MS J514
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SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN J ANUARY 2009

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 1-09 Groundwater Report*. This table contains numerous values, often because new data 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 are expected to be reduced 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, 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 Region 6 tap water screening levels (for compounds having no other regulatory standard). In the table, the EPA Region 6 tap water screening levels 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.

Criteria 5 and 6 involve conclusions based on four consecutive samples. No results are included for these criteria in the table because few locations have been sampled a sufficient number of times since June 14, 2007, to meet the criteria.

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, 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

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 1-09 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	1	1	11/05/08	13.5	13.5	13.5	1	Sandia Canyon	Regional	R-43	903.9	11/05/08	FD	F	CS	VOA	Toluene	108-88-3	13.5	1.00				0.25	ug/L	1				SW-846:8260B	GELC	Sample taken following aquifer test, prior to sampling system installation
C1	1	1	11/10/08	0.819	0.819	0.819	1	Sandia Canyon	Regional	R-43	969.1	11/10/08	FD	F	CS	VOA	Toluene	108-88-3	0.819	1.00				0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	Sample taken following aquifer test, prior to sampling system installation
C1	7	8	08/30/05	0.309	0.309	0.309	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCO-2	1.5	12/10/08		UF	CS	VOA	Toluene	108-88-3	0.309	1.00	NM GW STD	750	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	16	24	10/17/02	1.99	1.99	1.99	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-23	816	12/03/08		UF	CS	SVOA	Phenol	108-95-2	1.99	1.00	NM GW STD	5	0.4	1	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C2	8	9	10/24/01	0.3	0.54	0.39	9	Guaje Canyon (includes Barrancas and Rendija Canyons)	Water Supply	G-5A	746.6	09/10/08		UF	CS	GENINORG	Perchlorate	ClO4	0.406	1.04	LANL Reg BG LVL	0.05	8.1	0.05	ug/L	1		J	PE12e	SW-846:6850	GELC	
C2	1	2	11/10/08	3.99	4	4	2	Sandia Canyon	Regional	R-43	969.1	11/10/08	FD	F	CS	GENINORG	Chloride	Cl(-1)	3.99	1.00	LANL Reg BG LVL	3.57	1.1	0.066	mg/L	1				EPA:300.0	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	1	2	11/10/08	3.99	4	4	2	Sandia Canyon	Regional	R-43	969.1	11/10/08		F	CS	GENINORG	Chloride	Cl(-1)	4	1.00	LANL Reg BG LVL	3.57	1.1	0.066	mg/L	1				EPA:300.0	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	1	3	11/10/08	4.65	4.87	4.73	3	Sandia Canyon	Regional	R-43	969.1	11/10/08		F	CS	GENINORG	Magnesium	Mg	4.87	1.03	LANL Reg BG LVL	4.15	1.2	0.085	mg/L	1				SW-846:6010B	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	1	1	11/10/08	0.398	0.398	0.398	1	Sandia Canyon	Regional	R-43	969.1	11/10/08		UF	CS	GENINORG	Total Organic Carbon	TOC	0.398	1.00	LANL Reg BG LVL	0.33	1.2	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	1	3	11/10/08	98.1	255	235	3	Sandia Canyon	Regional	R-43	969.1	11/10/08		F	CS	METALS	Iron	Fe	98.1	0.42	LANL Reg BG LVL	21	4.7	25	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	1	3	11/10/08	14.3	14.9	14.9	3	Sandia Canyon	Regional	R-43	969.1	11/10/08		F	CS	METALS	Manganese	Mn	14.3	0.96	LANL Reg BG LVL	2.94	4.9	2	ug/L	1				SW-846:6010B	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	1	3	11/10/08	2.1	2.3	2.3	3	Sandia Canyon	Regional	R-43	969.1	11/10/08		F	CS	METALS	Molybdenum	Mo	2.1	0.91	LANL Reg BG LVL	2	1.1	0.1	ug/L	1				SW-846:6020	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	1	3	11/10/08	3.3	8.2	6.3	3	Sandia Canyon	Regional	R-43	969.1	11/10/08		F	CS	METALS	Zinc	Zn	6.3	1.00	LANL Reg BG LVL	3.89	1.6	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	Sample taken following aquifer test, prior to sampling system installation
C2	12	14	01/19/06	3.2	15.6	5.4	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Water Supply	PM-5	1440	09/10/08		F	CS	METALS	Chromium	Cr	6.4	1.19	LANL Reg BG LVL	5.75	1.1	1.5	ug/L	1				SW-846:6020	GELC	
C2	3	3	06/28/05	27.8	111	93.5	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	GENINORG	Chloride	Cl(-1)	111	1.19	LANL Avl BG LVL	69.76	1.6	0.66	mg/L	10				EPA:300.0	GELC	road salt? Na ~ Cl, in Twomile

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
C2	3	3	06/28/05	0.0694	0.109	0.0892	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	GENINORG	Perchlorate	ClO4	0.109	1.22	LANL Avl BG LVL	0.05	2.2	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	in Twomile
C2	3	3	06/28/05	3.35	10.8	3.98	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	GENINORG	Potassium	K	10.8	2.71	LANL Avl BG LVL	5.21	2.1	0.05	mg/L	1				SW-846:6010B	GELC	in Twomile
C2	3	3	06/28/05	37.2	79.8	68.1	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	GENINORG	Sodium	Na	68.1	1.00	LANL Avl BG LVL	15.54	4.4	0.045	mg/L	1				SW-846:6010B	GELC	road salt? Na ~ Cl, in Twomile
C2	3	3	06/28/05	0.092	0.092	0.092	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.092	1.00	LANL Avl BG LVL	0.05	1.8	0.024	mg/L	1				EPA:365.4	GELC	in Twomile
C2	3	4	06/28/05	164	314	245	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	GENINORG	Total Dissolved Solids	TDS	272	1.11	LANL Avl BG LVL	139	2.0	2.4	mg/L	1				EPA:160.1	GELC	road salt? Na ~ Cl, in Twomile
C2	3	3	06/28/05	50.4	84.9	55.6	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Barium	Ba	84.9	1.53	LANL Avl BG LVL	68.57	1.2	1	ug/L	1				SW-846:6010B	GELC	Turb = 124 NTU, in Twomile
C2	3	3	06/28/05	4.2	8.1	6.2	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Copper	Cu	8.1	1.31	LANL Avl BG LVL	3	2.7	3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	Turb = 124 NTU, in Twomile
C2	3	3	06/28/05	12.4	107	17.5	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Manganese	Mn	12.4	0.71	LANL Avl BG LVL	2	6.2	2	ug/L	1				SW-846:6010B	GELC	Turb = 124 NTU, in Twomile
C2	3	3	06/28/05	1.4	2.6	2.2	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Nickel	Ni	2.6	1.18	LANL Avl BG LVL	1	2.6	0.5	ug/L	1				SW-846:6020	GELC	Turb = 124 NTU, in Twomile
C2	3	3	06/28/05	0.73	1.8	0.86	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Lead	Pb	0.86	1.00	LANL Avl BG LVL	0.5	1.7	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	Turb = 124 NTU, in Twomile
C2	3	3	06/28/05	4.9	24.8	14.9	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Antimony	Sb	24.8	1.66	LANL Avl BG LVL	0.5	49.6	0.5	ug/L	1		J	l4a	SW-846:6020	GELC	Turb = 124 NTU, in Twomile
C2	3	3	06/28/05	15.9	374	195	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Zinc	Zn	374	1.92	LANL Avl BG LVL	2	187.0	2	ug/L	1				SW-846:6010B	GELC	Turb = 124 NTU, in Twomile
C2	10	12	08/31/06	0.02	0.073	0.047	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-9	6	12/10/08		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.073	1.55	LANL Avl BG LVL	0.05	1.5	0.024	mg/L	1				EPA:365.4	GELC	
C2	10	13	08/28/06	0.038	0.103	0.077	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-18	12.5	12/11/08		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.077	1.00	LANL Avl BG LVL	0.05	1.5	0.024	mg/L	1				EPA:365.4	GELC	
C2	10	13	08/28/06	0.038	0.103	0.077	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-18	12.5	12/11/08	FD	F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.103	1.34	LANL Avl BG LVL	0.05	2.1	0.024	mg/L	1				EPA:365.4	GELC	
C2	3	5	06/09/08	4.8	6.9	6.8	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Arsenic	As	6.8	1.00	LANL Avl BG LVL	6	1.1	1.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content

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
C2	3	5	06/09/08	4.8	6.9	6.8	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Arsenic	As	6.9	1.01	LANL Avl BG LVL	6	1.2	1.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C2	3	3	06/22/08	1.6	1.6	1.6	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7c	9.7	12/03/08		F	CS	METALS	Chromium	Cr	1.6	1.00	LANL Avl BG LVL	1	1.6	1.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	10	10	08/22/06	0.097	0.097	0.097	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Anderson Spring	0	12/09/08		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.097	1.00	LANL Int BG LVL	0.08	1.2	0.024	mg/L	1				EPA:365.4	GELC	
C2	10	11	08/31/06	9.18	19.6	14	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Charlie's Spring	0	12/04/08	FD	F	CS	GENINORG	Calcium	Ca	19.6	1.40	LANL Int BG LVL	17.31	1.1	0.03	mg/L	1				SW-846:6010B	GELC	
C2	10	11	08/31/06	9.18	19.6	14	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Charlie's Spring	0	12/04/08		F	CS	GENINORG	Calcium	Ca	19	1.36	LANL Int BG LVL	17.31	1.1	0.03	mg/L	1				SW-846:6010B	GELC	
C2	10	11	08/31/06	3.05	6.42	4.93	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Charlie's Spring	0	12/04/08	FD	F	CS	GENINORG	Magnesium	Mg	6.42	1.30	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C2	10	11	08/31/06	35.1	71.9	62.8	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Charlie's Spring	0	12/04/08	FD	F	CS	METALS	Barium	Ba	71.9	1.14	LANL Int BG LVL	71.83	1.0	1	ug/L	1	E			SW-846:6010B	GELC	
C2	11	11	06/22/05	0.098	0.221	0.16	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Bulldog Spring	0	12/10/08		F	CS	GENINORG	Bromide	Br(-1)	0.098	0.61	LANL Int BG LVL	0.03	3.3	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	8	8	09/22/00	14.9	21.1	16.8	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	12/03/08		F	CS	GENINORG	Calcium	Ca	17.6	1.05	LANL Int BG LVL	17.31	1.0	0.03	mg/L	1				SW-846:6010B	GELC	
C2	8	8	09/22/00	12.7	21	19.5	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	12/03/08		F	CS	METALS	Boron	B	19.5	1.00	LANL Int BG LVL	15.12	1.3	10	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	3	07/05/05	0.073	0.227	0.15	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	1448.2	12/19/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.073	0.49	LANL Reg BG LVL	0.05	1.5	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	
C2	5	6	01/26/07	0.081	0.081	0.081	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	10/08/08		F	CS	GENINORG	Bromide	Br(-1)	0.081	1.00	LANL Avl BG LVL	0.07	1.2	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	31	37	03/28/00	13.9	23	17	37	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	10/08/08		F	CS	GENINORG	Sodium	Na	16.9	0.99	LANL Avl BG LVL	15.54	1.1	0.045	mg/L	1				SW-846:6010B	GELC	
C2	26	27	03/28/00	35.4	73.7	46.4	14	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	10/08/08		F	CS	METALS	Boron	B	61.8	1.33	LANL Avl BG LVL	51.89	1.2	10	ug/L	1				SW-846:6010B	GELC	
C2	31	37	03/28/00	1.62	57.9	13.05	12	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	10/08/08		F	CS	METALS	Zinc	Zn	11	0.84	LANL Avl BG LVL	2	5.5	2	ug/L	1				SW-846:6010B	GELC	
C2	26	26	01/10/00	14	23	17	26	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	SWSC Spring	0	10/08/08		F	CS	GENINORG	Calcium	Ca	18.4	1.08	LANL Int BG LVL	17.31	1.1	0.03	mg/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	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
C2	26	26	01/10/00	2.6	8.52	3.35	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	SWSC Spring	0	10/08/08		F	CS	METALS	Zinc	Zn	2.9	0.87	LANL Int BG LVL	2	1.5	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	5	6	01/30/07	1.69	3.04	2.33	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	10/08/08		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.04	1.30	LANL Int BG LVL	2.41	1.3	0.05	mg/L	5		J	I4a	EPA:353.2	GELC	
C2	11	13	03/29/04	0.31	1.7	0.95	13	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	10/08/08		F	CS	METALS	Uranium	U	1.5	1.58	LANL Int BG LVL	0.72	2.1	0.05	ug/L	1				SW-846:6020	GELC	
C2	2	2	10/31/01	0.388	0.388	0.388	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 6	291	09/24/08		UF	CS	GENINORG	Perchlorate	ClO4	0.388	1.00	LANL Reg BG LVL	0.05	7.8	0.05	ug/L	1				SW-846:6850	GELC	
C2	1	1	09/24/08	466	466	466	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 6	291	09/24/08		UF	CS	GENINORG	Specific Conductance	SPEC_CONDC	466	1.00	LANL Reg BG LVL	287.21	1.6	1	uS/cm	1				EPA:120.1	GELC	
C3	3	3	06/28/05	1200	3610	1240	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Iron	Fe	1240	1.00	NM GW STD	1000	2.5	25	ug/L	1	*	J	I4a	SW-846:6010B	GELC	Turb = 124 NTU, in Twomile
C3	3	3	06/28/05	1.8	9.7	2.7	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		UF	CS	METALS	Lead	Pb	9.7	3.59	EPA PRIM DW STD	15	1.3	0.5	ug/L	1				SW-846:6020	GELC	Turb = 124 NTU, in Twomile
C3	3	3	06/28/05	4.5	7.7	6.1	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		UF	CS	METALS	Antimony	Sb	7.7	1.26	EPA PRIM DW STD	6	2.6	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	Turb = 124 NTU, in Twomile
C3	3	3	06/28/05	4.9	24.8	14.9	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Antimony	Sb	24.8	1.66	EPA PRIM DW STD	6	8.3	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	Turb = 124 NTU, in Twomile
C3	3	5	06/09/08	331	522	423	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	GENINORG	Total Dissolved Solids	TDS	519	1.23	NM GW STD	1000	1.0	2.4	mg/L	1				EPA:160.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C3	3	5	06/09/08	331	522	423	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	GENINORG	Total Dissolved Solids	TDS	522	1.23	NM GW STD	1000	1.0	2.4	mg/L	1				EPA:160.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C3	3	5	06/09/08	4.8	6.9	6.8	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Arsenic	As	6.9	1.01	EPA PRIM DW STD	10	1.4	1.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C3	3	5	06/09/08	4.8	6.9	6.8	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Arsenic	As	6.8	1.00	EPA PRIM DW STD	10	1.4	1.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C3	3	5	06/09/08	3.2	5.7	5.3	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	UF	CS	METALS	Arsenic	As	5.7	1.08	EPA PRIM DW STD	10	1.1	1.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C3	3	5	06/09/08	3.2	5.7	5.3	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		UF	CS	METALS	Arsenic	As	5.3	1.00	EPA PRIM DW STD	10	1.1	1.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C3	3	5	06/09/08	281	601	436	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Barium	Ba	570	1.31	NM GW STD	1000	1.1	5	ug/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C3	3	5	06/09/08	281	601	436	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Barium	Ba	601	1.38	NM GW STD	1000	1.2	5	ug/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content

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
C3	1	1	09/24/08	7	7	7	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 6	291	09/24/08		UF	CS	METALS	Arsenic	As	7	1.00	EPA PRIM DW STD	10	1.4	1.5	ug/L	1				SW-846:6020	GELC	Similar to nearby wells
C5	25	28	10/24/01	1.22	2.97	2.05	28	Pueblo Canyon (includes Acid Canyon)	Water Supply	O-1	1017	09/10/08		UF	CS	GENINORG	Perchlorate	ClO4	1.96	0.96	LANL Reg BG LVL	0.05	19.6	0.2	ug/L	4		J	PE12e	SW-846:6850	GELC	
C5	23	25	10/24/01	0.354	0.55	0.381	24	Upper Los Alamos Canyon (includes DP Canyon)	Water Supply	O-4	1115	09/10/08		UF	CS	GENINORG	Perchlorate	ClO4	0.415	1.09	LANL Reg BG LVL	0.05	4.2	0.05	ug/L	1		J	PE12e	SW-846:6850	GELC	
C5	23	25	10/24/01	0.354	0.55	0.381	24	Upper Los Alamos Canyon (includes DP Canyon)	Water Supply	O-4	1115	09/10/08	FD	UF	CS	GENINORG	Perchlorate	ClO4	0.434	1.14	LANL Reg BG LVL	0.05	4.3	0.05	ug/L	1		J	PE12e	SW-846:6850	GELC	
C5	21	23	10/24/01	0.401	0.52	0.444	21	Sandia Canyon	Water Supply	PM-1	945	09/10/08		UF	CS	GENINORG	Perchlorate	ClO4	0.472	1.06	LANL Reg BG LVL	0.05	4.7	0.05	ug/L	1		J	PE12e	SW-846:6850	GELC	
C5	11	11	11/28/01	0.3	0.354	0.337	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Water Supply	PM-4	1260	09/10/08		UF	CS	GENINORG	Perchlorate	ClO4	0.35	1.04	LANL Reg BG LVL	0.05	3.5	0.05	ug/L	1		J	PE12e	SW-846:6850	GELC	
C5	25	31	10/24/01	0.296	0.444	0.338	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Water Supply	PM-5	1440	09/10/08		UF	CS	GENINORG	Perchlorate	ClO4	0.34	1.01	LANL Reg BG LVL	0.05	3.4	0.05	ug/L	1		J	PE12e	SW-846:6850	GELC	
C5	10	11	08/29/06	0.268	0.388	0.309	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-BG-1	10	12/08/08		F	CS	GENINORG	Perchlorate	ClO4	0.268	0.87	LANL Avl BG LVL	0.05	2.7	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	12	08/31/06	0.247	0.568	0.32	12	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-9	6	12/10/08		F	CS	GENINORG	Perchlorate	ClO4	0.28	0.88	LANL Avl BG LVL	0.05	2.8	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	12	08/31/06	0.266	0.417	0.34	12	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-11	27	12/09/08		F	CS	GENINORG	Perchlorate	ClO4	0.266	0.78	LANL Avl BG LVL	0.05	2.7	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	13	08/28/06	0.0972	0.242	0.162	13	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-18	12.5	12/11/08	FD	F	CS	GENINORG	Perchlorate	ClO4	0.115	0.71	LANL Avl BG LVL	0.05	1.2	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	10	13	08/28/06	45.1	96.3	56.2	13	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-18	12.5	12/11/08	FD	F	CS	GENINORG	Sodium	Na	56.3	1.00	LANL Avl BG LVL	15.54	1.8	0.045	mg/L	1				SW-846:6010B	GELC	
C5	10	13	08/28/06	45.1	96.3	56.2	13	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	18-MW-18	12.5	12/11/08		F	CS	GENINORG	Sodium	Na	56.2	1.00	LANL Avl BG LVL	15.54	1.8	0.045	mg/L	1				SW-846:6010B	GELC	
C5	3	5	06/09/08	241	444	350	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	441	1.26	LANL Avl BG LVL	76	2.9	0.73	mg/L	1				EPA:310.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	241	444	350	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	444	1.27	LANL Avl BG LVL	76	2.9	0.73	mg/L	1				EPA:310.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	61.9	114	85.7	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	GENINORG	Calcium	Ca	106	1.24	LANL Avl BG LVL	26.36	2.0	0.15	mg/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	61.9	114	85.7	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	GENINORG	Calcium	Ca	114	1.33	LANL Avl BG LVL	26.36	2.2	0.15	mg/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content

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C5	3	5	06/09/08	0.932	1.48	1.3	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	1.48	1.14	LANL Avl BG LVL	0.04	18.5	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	0.932	1.48	1.3	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	1.37	1.05	LANL Avl BG LVL	0.04	17.1	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	331	522	423	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	GENINORG	Total Dissolved Solids	TDS	522	1.23	LANL Avl BG LVL	139	1.9	2.4	mg/L	1				EPA:160.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	331	522	423	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	GENINORG	Total Dissolved Solids	TDS	519	1.23	LANL Avl BG LVL	139	1.9	2.4	mg/L	1				EPA:160.1	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	281	601	436	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Barium	Ba	601	1.38	LANL Avl BG LVL	68.57	4.4	5	ug/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	281	601	436	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Barium	Ba	570	1.31	LANL Avl BG LVL	68.57	4.2	5	ug/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	9.6	23.6	17.1	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Cobalt	Co	22.1	1.29	LANL Avl BG LVL	0.5	22.1	5	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	9.6	23.6	17.1	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Cobalt	Co	23.6	1.38	LANL Avl BG LVL	0.5	23.6	5	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	6040	17500	11900	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Manganese	Mn	16900	1.42	LANL Avl BG LVL	2	4225.0	10	ug/L	5				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	6040	17500	11900	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Manganese	Mn	17500	1.47	LANL Avl BG LVL	2	4375.0	10	ug/L	5				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	6.8	8.2	7.3	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Molybdenum	Mo	7.1	0.97	LANL Avl BG LVL	2	1.8	0.1	ug/L	1		J	I4a	SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	6.8	8.2	7.3	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Molybdenum	Mo	6.8	0.93	LANL Avl BG LVL	2	1.7	0.1	ug/L	1		J	I4a	SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	5.8	10.7	7.1	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Nickel	Ni	10.5	1.48	LANL Avl BG LVL	1	5.3	0.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	5.8	10.7	7.1	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Nickel	Ni	10.7	1.51	LANL Avl BG LVL	1	5.4	0.5	ug/L	1				SW-846:6020	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	383	777	583	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08	FD	F	CS	METALS	Strontium	Sr	777	1.33	LANL Avl BG LVL	120	3.2	5	ug/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content
C5	3	5	06/09/08	383	777	583	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-5	14.7	12/02/08		F	CS	METALS	Strontium	Sr	723	1.24	LANL Avl BG LVL	120	3.0	5	ug/L	1				SW-846:6010B	GELC	Well is in Cerro Grande fire ash deposits with high metals content

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
C5	11	20	06/20/05	0.161	0.405	0.253	20	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Homestead Spring	0	12/04/08		F	CS	GENINORG	Perchlorate	ClO4	0.163	0.64	LANL Int BG LVL	0.05	1.6	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	11	11	06/21/05	0.213	0.457	0.266	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Starmer Spring	0	12/04/08		F	CS	GENINORG	Perchlorate	ClO4	0.213	0.80	LANL Int BG LVL	0.05	2.1	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	10	08/22/06	0.324	0.633	0.413	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Anderson Spring	0	12/09/08		F	CS	GENINORG	Perchlorate	ClO4	0.329	0.80	LANL Int BG LVL	0.05	3.3	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	10	08/22/06	1.5	9.3	4.9	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Anderson Spring	0	12/09/08		F	CS	METALS	Chromium	Cr	4.5	0.92	LANL Int BG LVL	1	2.3	1.5	ug/L	1				SW-846:6020	GELC	
C5	11	11	06/20/05	0.377	0.804	0.472	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Kieling Spring	0	12/10/08		F	CS	GENINORG	Perchlorate	ClO4	0.804	1.70	LANL Int BG LVL	0.05	8.0	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	11	08/31/06	0.213	0.447	0.31	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Charlie's Spring	0	12/04/08		F	CS	GENINORG	Perchlorate	ClO4	0.31	1.00	LANL Int BG LVL	0.05	3.1	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	11	08/31/06	0.213	0.447	0.31	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Charlie's Spring	0	12/04/08	FD	F	CS	GENINORG	Perchlorate	ClO4	0.312	1.01	LANL Int BG LVL	0.05	3.1	0.05	ug/L	1				SW-846:6850	GELC	
C5	11	11	06/22/05	0.606	0.947	0.698	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Bulldog Spring	0	12/10/08		F	CS	GENINORG	Perchlorate	ClO4	0.947	1.36	LANL Int BG LVL	0.05	9.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	8	8	09/22/00	0.409	0.71	0.54	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	12/03/08		F	CS	GENINORG	Fluoride	F(-1)	0.622	1.15	LANL Int BG LVL	0.23	1.4	0.033	mg/L	1				EPA:300.0	GELC	
C5	9	10	10/03/06	0.146	0.281	0.204	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	470.2	12/02/08		F	CS	GENINORG	Perchlorate	ClO4	0.228	1.12	LANL Int BG LVL	0.05	2.3	0.05	ug/L	1				SW-846:6850	GELC	
C5	12	22	08/25/05	0.364	1.28	0.704	18	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-18	1358	12/11/08	FD	UF	CS	GENINORG	Total Organic Carbon	TOC	0.688	0.98	LANL Reg BG LVL	0.33	1.0	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	14	23	12/17/03	0.555	1.51	0.868	20	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-23	816	12/03/08		UF	CS	GENINORG	Total Organic Carbon	TOC	1.41	1.62	LANL Reg BG LVL	0.33	2.1	0.33	mg/L	1				SW-846:9060	GELC	
C5	31	37	03/28/00	4580	8440	6410	37	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	10/08/08		F	CS	METALS	Barium	Ba	6470	1.01	LANL Avl BG LVL	68.57	47.2	1	ug/L	1				SW-846:6010B	GELC	
C5	4	4	05/10/07	13.4	23	17.6	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	SWSC Spring	0	10/08/08		F	CS	GENINORG	Chloride	Cl(-1)	18.1	1.03	LANL Int BG LVL	7.78	1.2	0.066	mg/L	1				EPA:300.0	GELC	
C5	4	4	05/10/07	0.511	0.72	0.595	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	SWSC Spring	0	10/08/08		F	CS	GENINORG	Perchlorate	ClO4	0.72	1.21	LANL Int BG LVL	0.05	7.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	26	26	01/10/00	209	371	279	25	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	SWSC Spring	0	10/08/08		F	CS	METALS	Barium	Ba	268	0.96	LANL Int BG LVL	71.83	1.9	1	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	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
C5	26	26	01/10/00	5	85	10	15	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	SWSC Spring	0	10/08/08		F	CS	METALS	Manganese	Mn	11	1.10	LANL Int BG LVL	2	2.8	2	ug/L	1				SW-846:6010B	GELC	
C5	5	6	01/30/07	19.2	32.4	23.3	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	10/08/08		F	CS	GENINORG	Chloride	Cl(-1)	20.5	0.88	LANL Int BG LVL	7.78	1.3	0.13	mg/L	2				EPA:300.0	GELC	
C5	5	6	01/30/07	0.459	0.694	0.541	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	10/08/08		F	CS	GENINORG	Perchlorate	ClO4	0.694	1.28	LANL Int BG LVL	0.05	6.9	0.05	ug/L	1				SW-846:6850	GELC	
C5	41	44	01/10/00	570	2840	2020	44	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	10/08/08		F	CS	METALS	Boron	B	1230	0.61	LANL Int BG LVL	15.12	40.7	10	ug/L	1				SW-846:6010B	GELC	
C5	3	3	06/16/08	10.9	14.1	11.1	3			R-23i PIEZ	0	12/12/08		UF	CS	GENINORG	Magnesium	Mg	11.1	1.00		0.0636	87.3	0.085	mg/L	1				SW-846:6010B	GELC	
C5	3	3	06/16/08	10.9	13.7	11.4	3			R-23i PIEZ	0	12/12/08		F	CS	GENINORG	Magnesium	Mg	11.4	1.00		0.0636	89.6	0.085	mg/L	1				SW-846:6010B	GELC	
C5	3	3	06/16/08	10.9	14.1	11.1	3			R-23i PIEZ	0	12/12/08		UF	CS	GENINORG	Magnesium	Mg	11.1	1.00		0.0636	87.3	0.085	mg/L	1				SW-846:6010B	GELC	
C5	3	3	06/16/08	10.9	13.7	11.4	3			R-23i PIEZ	0	12/12/08		F	CS	GENINORG	Magnesium	Mg	11.4	1.00		0.0636	89.6	0.085	mg/L	1				SW-846:6010B	GELC	
CA	3	3	06/28/05	1200	3610	1240	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Iron	Fe	1240	1.00	NM GW STD	1000	1.2	25	ug/L	1	*	J	I4a	SW-846:6010B	GELC	Turb = 124 NTU, in Twomile
CA	3	3	06/28/05	4.5	7.7	6.1	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		UF	CS	METALS	Antimony	Sb	7.7	1.26	EPA PRIM DW STD	6	1.3	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	Turb = 124 NTU, in Twomile
CA	3	3	06/28/05	4.9	24.8	14.9	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial Spring	TW-1.72 Spring	0	12/11/08		F	CS	METALS	Antimony	Sb	24.8	1.66	EPA PRIM DW STD	6	4.1	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	Turb = 124 NTU, in Twomile