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Date: AUG 19 2010
Refer To: EP2010-0327

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

RECEIVED
AUG 2010
Hazardous Waste Bureau

Subject: Review of July 2010 Groundwater Data

Dear Mr. Bearzi:

Members of the Los Alamos National Laboratory Environmental Programs staff met on August 12, 2010, to review new groundwater data received in July 2010. At that time, several groundwater samples were identified with contaminant concentrations above the New Mexico or federal water quality standards.

An Environmental Programs staff member notified the New Mexico Environment Department Hazardous Waste Bureau about these findings by telephone on August 13, 2010, and followed up with an email on the same day.

The five 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. These instances are the following:

- Benzo(a)pyrene was found in an unfiltered field duplicate sample at Mortandad Canyon intermediate well MCOI-6 at 0.245 µg/L (but not detected in the primary sample); the U.S. Environmental Protection Agency (EPA) maximum contaminant level (MCL) is 0.2 µg/L.
- Chloride was found in a filtered sample at Pajarito Canyon alluvial well PCAO-9 at 590 mg/L; the New Mexico Groundwater Standard is 250 mg/L.
- A total dissolved solids concentration of 1740 mg/L was found in a filtered sample at Pajarito Canyon alluvial well PCAO-9; the New Mexico Groundwater Standard is 1000 mg/L.
- Antimony was found in filtered and unfiltered samples at Pajarito Canyon intermediate well R-40 at 8.64 µg/L and 8.27 µg/L, respectively; the EPA MCL is 6 µg/L.

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This letter is our written submission that meets notification requirements laid out in Section IV.A.3.g of the Compliance Order on Consent, modified on May 13, 2008. The required information for the chemical constituents that meet the seven screening criteria contained in that section is given in the accompanying report and tables.

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

Sincerely,

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

George J. Rael, Manager
Environmental Projects Office
Los Alamos Site Office

MG/GR/DM/SP/DR:sm

Enclosure: Two hard copies with electronic files – Summary of New Los Alamos National Laboratory Groundwater Data Loaded in July 2010 (LA-UR-10-4821)

Cy: (w/enc.)
Neil Weber, San Ildefonso Pueblo, NM
Hai Shen, DOE-LASO, MS A316
Ed Worth, DOE-LASO, MS A316
Steve Paris, EP-CAP, MS M992
Jake Meadows, ENV-RCRA, MS K490
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David Rogers, EP-ET-DO, MS M992
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SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN JULY 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 7-10 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 7-10 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	note
C1	5	5	02/20/09	0.073	0.073	0.073	1	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		UF	CS	PEST/PCB	Aroclor-1260	11096-82-5	0.073	1.00	EPA MCL	0.5	0.2	0.04	ug/L	1	J	J	J_LAB	SW-846:8082	GELC	detected twice in SCA-1
C1	12	14	01/11/07	3.24	3.24	3.24	1	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		UF	CS	VOA	Methylene Chloride	75-09-2	3.24	1.00	EPA MCL	5	0.7	3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	analytical lab contaminant- found in many trip blanks
C1	6	9	11/10/08	0.35	0.35	0.35	1	Sandia Canyon	Regional	R-43	969.1	05/10/10		UF	CS	VOA	Trichloroethene	79-01-6	0.35	1.00	EPA MCL	5	0.1	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	in Sandia Canyon
C1	16	27	06/15/05	0.239	0.239	0.239	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	UF	CS	SVOA	Benzo(b)fluoranthene	205-99-2	0.239	1.00	EPA TAP SCRN LVL C-5	0.29	0.8	0.21	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	not in primary sample
C1	16	27	06/15/05	0.26	0.26	0.26	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	UF	CS	SVOA	Benzo(k)fluoranthene	207-08-9	0.26	1.00	EPA TAP SCRN LVL C-5	2.9	0.1	0.21	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	not in primary sample
C1	16	27	06/15/05	0.245	0.245	0.245	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	UF	CS	SVOA	Benzo(a)pyrene	50-32-8	0.245	1.00	EPA MCL	0.2	1.2	0.21	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	not in primary sample
C1	2	5	03/06/10	13	13	13	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	05/27/10	FD	UF	CS	SVOA	Benzoic Acid	65-85-0	13	1.00	EPA TAP SCRN LVL N	150000	0.0	6.3	ug/L	1	J	J	SV88	SW-846:8270C	GELC	
C1	2	5	03/06/10	2.99	432	33.9	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	05/27/10		UF	RE	SVOA	Diethylphthalate	84-66-2	7.8	0.23	EPA TAP SCRN LVL N	29000	0.0	2.1	ug/L	1	J	J-	SV9	SW-846:8270C	GELC	other analysis of this sample better
C1	2	5	03/06/10	2.99	432	33.9	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	05/27/10		UF	CS	SVOA	Diethylphthalate	84-66-2	60	1.77	EPA TAP SCRN LVL N	29000	0.0	2.1	ug/L	1		J	SV88	SW-846:8270C	GELC	other analysis of this sample better
C1	2	5	03/06/10	2.99	432	33.9	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	05/27/10	FD	UF	DL	SVOA	Diethylphthalate	84-66-2	432	12.74	EPA TAP SCRN LVL N	29000	0.0	8.4	ug/L	4		J	SV88	SW-846:8270C	GELC	this diluted analysis is best result
C1	2	5	03/06/10	2.99	432	33.9	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	05/27/10	FD	UF	RE	SVOA	Diethylphthalate	84-66-2	2.99	0.09	EPA TAP SCRN LVL N	29000	0.0	2.2	ug/L	1	J	J-	SV9	SW-846:8270C	GELC	other analysis of this sample better
C1	2	5	03/11/10	14.2	14.2	14.2	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1185	05/27/10	FD	UF	CS	SVOA	Diethylphthalate	84-66-2	14.2	1.00	EPA TAP SCRN LVL N	29000	0.0	2.1	ug/L	1				SW-846:8270C	GELC	other analysis of this sample better
C1	1	2	05/02/10	0.33	0.33	0.33	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-52	1035.2	05/02/10	FD	UF	CS	VOA	Chloromethane	74-87-3	0.33	1.00	EPA TAP SCRN LVL N	190	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	3	5	09/12/08	0.31	0.31	0.31	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	06/02/10	FD	UF	CS	VOA	Styrene	100-42-5	0.31	1.00	EPA MCL	100	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	2	2	06/01/09	0.124	0.124	0.124	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-6	8	06/04/10		UF	CS	HEXP	HMX	2691-41-0	0.124	1.00	EPA TAP SCRN LVL N	1800	0.0	0.1	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	
C1	2	3	06/01/09	0.48	0.48	0.48	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-6	8	06/04/10	FD	UF	CS	VOA	Chloromethane	74-87-3	0.48	1.00	EPA TAP SCRN LVL N	190	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	4	6	03/03/09	0.00000857	0.00000857	0.00000857	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	3MAO-2	14.7	06/07/10	FD	UF	CS	DIOX/FUR	Heptachlorodibenzofurans (Total)	38998-75-3	0.00000857	1.00				0.00000565	ug/L	1	J	J	J_LAB	SW-846:8290	CFA	
C1	8	9	08/30/05	0.32	0.32	0.32	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCO-2	1.5	06/02/10		UF	CS	VOA	Chloromethane	74-87-3	0.32	1.00	EPA TAP SCRN LVL N	190	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	3	4	06/25/08	0.31	0.31	0.31	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10	FD	UF	CS	VOA	Chloromethane	74-87-3	0.31	1.00	EPA TAP SCRN LVL N	190	0.0	0.3	ug/L	1	J	J	V7c	SW-846:8260B	GELC	
C1	4	4	04/21/09	0.46	0.46	0.46	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		UF	CS	VOA	Trichloroethene	79-01-6	0.46	1.00	EPA MCL	5	0.1	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	intermediate zone, west of PM-2 and R-20
C1	2	3	03/08/10	22	22	22	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	06/18/10	FD	UF	CS	SVOA	Diethylphthalate	84-66-2	22	1.00	EPA TAP SCRN LVL N	29000	0.0	2.2	ug/L	1				SW-846:8270C	GELC	
C1	2	3	02/15/10	30	30	30	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	830	06/18/10		UF	CS	SVOA	Diethylphthalate	84-66-2	30	1.00	EPA TAP SCRN LVL N	29000	0.0	2.1	ug/L	1				SW-846:8270C	GELC	
C1	1	2	05/10/10	2.72	2.79	2.76	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10	FD	UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7	2.72	0.99	EPA MCL	6	0.5	2	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	more bis(2) in a new well
C1	1	2	05/10/10	2.72	2.79	2.76	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7	2.79	1.01	EPA MCL	6	0.5	2	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	more bis(2) in a new well
C1	1	2	05/10/10	0.51	0.54	0.53	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10	FD	UF	CS	VOA	Toluene	108-88-3	0.51	0.96	NM GW STD	750	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	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	note
C1	1	2	05/10/10	0.51	0.54	0.53	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		UF	CS	VOA	Toluene	108-88-3	0.54	1.02	NM GW STD	750	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	1	2	05/10/10	61.7	62.6	62.2	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10	FD	UF	CS	VOA	Acetone	67-64-1	62.6	1.01	EPA TAP SCRN LVL N	22000	0.0	3.5	ug/L	1				SW-846:8260B	GELC	
C1	1	2	05/10/10	61.7	62.6	62.2	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		UF	CS	VOA	Acetone	67-64-1	61.7	0.99	EPA TAP SCRN LVL N	22000	0.0	3.5	ug/L	1				SW-846:8260B	GELC	
C1	1	2	05/10/10	0.32	0.41	0.37	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10	FD	UF	CS	VOA	Isopropylbenzene	98-82-8	0.32	0.86	EPA TAP SCRN LVL N	680	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	1	2	05/10/10	0.32	0.41	0.37	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		UF	CS	VOA	Isopropylbenzene	98-82-8	0.41	1.11	EPA TAP SCRN LVL N	680	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	1	1	04/29/10	68.1	68.1	68.1	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	68.1	1.00	LANL Int BG LVL	52	1.3	0.73	mg/L	1				EPA:310.1	GELC	
C2	1	1	04/29/10	0.102	0.102	0.102	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Bromide	Br(-1)	0.102	1.00	LANL Int BG LVL	0.03	3.4	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	1	1	04/29/10	37	37	37	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Calcium	Ca	37	1.00	LANL Int BG LVL	17.31	2.1	0.05	mg/L	1				SW-846:6010B	GELC	
C2	1	1	04/29/10	46.5	46.5	46.5	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Chloride	Cl(-1)	46.5	1.00	LANL Int BG LVL	7.78	6.0	0.33	mg/L	5				EPA:300.0	GELC	
C2	1	1	04/29/10	0.521	0.521	0.521	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Perchlorate	ClO4	0.521	1.00	LANL Int BG LVL	0.05	10.4	0.05	ug/L	1				SW-846:6850	GELC	
C2	1	1	04/29/10	7.04	7.04	7.04	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Magnesium	Mg	7.04	1.00	LANL Int BG LVL	6.12	1.2	0.085	mg/L	1				SW-846:6010B	GELC	
C2	1	1	04/29/10	3.05	3.05	3.05	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.05	1.00	LANL Int BG LVL	2.41	1.3	0.1	mg/L	10		J	I4a	EPA:353.2	GELC	
C2	1	1	04/29/10	22.5	22.5	22.5	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Sodium	Na	22.5	1.00	LANL Int BG LVL	12.19	1.9	0.1	mg/L	1				SW-846:6010B	GELC	
C2	1	1	04/29/10	0.314	0.314	0.314	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.314	1.00	LANL Int BG LVL	0.08	3.9	0.015	mg/L	1		J	I4a	EPA:365.4	GELC	
C2	1	1	04/29/10	292	292	292	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	GENINORG	Total Dissolved Solids	TDS	292	1.00	LANL Int BG LVL	127	2.3	2.4	mg/L	1				EPA:160.1	GELC	
C2	1	1	04/29/10	182	182	182	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	METALS	Boron	B	182	1.00	LANL Int BG LVL	15.12	12.0	15	ug/L	1				SW-846:6010B	GELC	
C2	1	1	04/29/10	5.52	5.52	5.52	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	METALS	Chromium	Cr	5.52	1.00	LANL Int BG LVL	1	5.5	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	1	1	04/29/10	5.97	5.97	5.97	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	METALS	Manganese	Mn	5.97	1.00	LANL Int BG LVL	2	3.0	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	04/29/10	2.78	2.78	2.78	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	METALS	Nickel	Ni	2.78	1.00	LANL Int BG LVL	1	2.8	0.5	ug/L	1				SW-846:6020	GELC	
C2	1	1	04/29/10	69.2	69.2	69.2	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	METALS	Silicon Dioxide	SiO2	69.2	1.00	LANL Int BG LVL	50.72	1.4	0.053	mg/L	1				SW-846:6010B	GELC	
C2	1	1	04/29/10	202	202	202	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	METALS	Strontium	Sr	202	1.00	LANL Int BG LVL	154.76	1.3	1	ug/L	1				SW-846:6010B	GELC	
C2	1	1	04/29/10	4.22	4.22	4.22	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	04/29/10		F	CS	METALS	Zinc	Zn	4.22	1.00	LANL Int BG LVL	2	2.1	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	10	11	06/18/07	10.4	27.3	12.9	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Calcium	Ca	27.3	2.12	LANL Avl BG LVL	26.36	1.0	0.05	mg/L	1				SW-846:6010B	GELC	
C2	10	11	06/18/07	0.16	0.16	0.16	1	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.16	1.00	LANL Avl BG LVL	0.04	4.0	0.016	mg/L	1		J	I4a	EPA:350.1	GELC	
C2	6	12	11/05/08	2.35	7.71	3.73	9	Sandia Canyon	Regional	R-43	903.9	05/10/10		F	CS	METALS	Chromium	Cr	7.71	2.07	LANL Reg BG LVL	5.75	1.3	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	19	30	06/15/05	1.29	8	4.65	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	METALS	Cobalt	Co	1.29	0.28	LANL Int BG LVL	0.5	2.6	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	19	30	06/15/05	0.581	1.1	0.805	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	METALS	Antimony	Sb	0.581	0.72	LANL Int BG LVL	0.5	1.2	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	2	3	03/06/10	0.452	0.485	0.455	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	05/27/10		F	CS	GENINORG	Perchlorate	ClO4	0.485	1.07	LANL Reg BG LVL	0.46	1.1	0.05	ug/L	1				SW-846:6850	GELC	
C2	2	2	03/06/10	4.86	4.86	4.86	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	05/27/10		F	CS	METALS	Molybdenum	Mo	4.86	1.00	LANL Reg BG LVL	2	2.4	0.1	ug/L	1				SW-846:6020	GELC	
C2	2	2	03/11/10	818	818	818	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1185	05/27/10		F	CS	METALS	Aluminum	Al	818	1.00	LANL Reg BG LVL	68	12.0	68	ug/L	1	N	J+	I6b	SW-846:6010B	GELC	
C2	2	2	03/11/10	3.41	103	53.21	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1185	05/27/10		F	CS	METALS	Zinc	Zn	103	1.94	LANL Reg BG LVL	3.89	26.5	3.3	ug/L	1				SW-846:6010B	GELC	
C2	6	6	02/17/09	2.76	11.3	3.05	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	895	05/04/10		F	CS	GENINORG	Sulfate	SO4(-2)	11.3	3.70	LANL Reg BG LVL	7.2	1.6	0.1	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	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	note
C2	6	8	02/22/09	0.083	0.083	0.083	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	985.3	05/04/10	FD	F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.083	1.00	LANL Reg BG LVL	0.05	1.7	0.016	mg/L	1				EPA:350.1	GELC	
C2	1	1	05/02/10	0.435	0.435	0.435	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-52	1035.2	05/02/10		UF	CS	GENINORG	Total Organic Carbon	TOC	0.435	1.00	LANL Reg BG LVL	0.33	1.3	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	1	1	05/02/10	5.18	5.18	5.18	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-52	1035.2	05/02/10		F	CS	METALS	Manganese	Mn	5.18	1.00	LANL Reg BG LVL	2.94	1.8	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	05/02/10	4.58	4.58	4.58	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-52	1035.2	05/02/10		F	CS	METALS	Zinc	Zn	4.58	1.00	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	6	6	07/13/09	3.14	3.14	3.14	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-37	929.3	06/16/10		F	CS	METALS	Chromium	Cr	3.14	1.00	LANL Int BG LVL	1	3.1	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	6	7	02/06/09	1.53	1.53	1.53	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	06/02/10	FD	F	CS	METALS	Beryllium	Be	1.53	1.00	LANL Reg BG LVL	1	1.5	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	8	11	03/16/04	0.019	0.09	0.02	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	05/04/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.09	4.50	LANL Reg BG LVL	0.05	1.8	0.016	mg/L	1				EPA:350.1	GELC	
C2	7	9	05/12/04	0.571	5.97	4.005	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	05/04/10		F	CS	METALS	Chromium	Cr	5.97	1.49	LANL Reg BG LVL	5.75	1.0	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	6	9	03/19/04	3.01	5.26	4.88	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	05/07/10		F	CS	GENINORG	Potassium	K	3.01	0.62	LANL Reg BG LVL	2.63	1.1	0.05	mg/L	1				SW-846:6010B	GELC	
C2	6	9	03/19/04	1.41	1.41	1.41	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	05/07/10		F	CS	METALS	Cobalt	Co	1.41	1.00	LANL Reg BG LVL	0.5	2.8	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	6	9	03/19/04	3.74	18.2	10.7	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	05/07/10		F	CS	METALS	Manganese	Mn	3.74	0.35	LANL Reg BG LVL	2.94	1.3	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	6	9	03/19/04	14.8	14.8	14.8	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	05/07/10		F	CS	METALS	Vanadium	V	14.8	1.00	LANL Reg BG LVL	13.41	1.1	1	ug/L	1				SW-846:6010B	GELC	
C2	6	9	03/19/04	1.68	9.47	6.42	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	05/07/10		F	CS	METALS	Zinc	Zn	9.47	1.48	LANL Reg BG LVL	3.89	2.4	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	3	09/12/08	27	122	38	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	06/02/10		F	CS	GENINORG	Chloride	Cl(-1)	122	3.21	LANL Avl BG LVL	69.76	1.8	0.66	mg/L	10				EPA:300.0	GELC	in Twomile Canyon-road salt
C2	3	3	09/12/08	5.23	8.33	5.43	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	06/02/10		F	CS	GENINORG	Magnesium	Mg	8.33	1.53	LANL Avl BG LVL	7.78	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C2	3	3	09/12/08	1.15	1.15	1.15	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	06/02/10		F	CS	METALS	Cobalt	Co	1.15	1.00	LANL Avl BG LVL	0.5	2.3	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	2	2	06/01/09	0.204	0.283	0.244	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-6	8	06/04/10		F	CS	GENINORG	Fluoride	F(-1)	0.283	1.16	LANL Avl BG LVL	0.27	1.1	0.033	mg/L	1				EPA:300.0	GELC	
C2	2	2	06/01/09	0.849	3.83	2.34	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-6	8	06/04/10		F	CS	METALS	Molybdenum	Mo	3.83	1.64	LANL Avl BG LVL	2	1.9	0.1	ug/L	1				SW-846:6020	GELC	
C2	3	3	06/24/08	10.8	24.9	12.4	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	06/08/10		F	CS	GENINORG	Sulfate	SO4(-2)	24.9	2.01	LANL Avl BG LVL	24.83	1.0	0.1	mg/L	1				EPA:300.0	GELC	
C2	3	3	06/25/08	0.083	0.57	0.1	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	0.57	5.70	LANL Avl BG LVL	0.57	1.0	0.05	mg/L	5		J+	I6b	EPA:353.2	GELC	
C2	2	2	09/17/08	14.4	29.3	21.9	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	GENINORG	Sulfate	SO4(-2)	29.3	1.34	LANL Avl BG LVL	24.83	1.2	0.1	mg/L	1				EPA:300.0	GELC	
C2	5	6	06/11/09	1.02	1.99	1.51	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	06/07/10	FD	F	CS	METALS	Cobalt	Co	1.02	0.68	LANL Int BG LVL	0.5	2.0	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	5	6	06/11/09	1.02	1.99	1.51	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	06/07/10		F	CS	METALS	Cobalt	Co	1.99	1.32	LANL Int BG LVL	0.5	4.0	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	5	6	01/15/09	0.987	3.84	1.47	6	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-40	849.3	06/03/10		F	CS	METALS	Nickel	Ni	3.84	2.61	LANL Reg BG LVL	3.09	1.2	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	
C2	14	18	03/10/04	1	1.81	1.41	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10		F	CS	METALS	Cobalt	Co	1	0.71	LANL Reg BG LVL	0.5	2.0	1	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	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	note
C2	14	18	03/10/04	1.7	59.5	3.2	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10		F	CS	METALS	Zinc	Zn	8.1	2.53	LANL Reg BG LVL	3.89	2.1	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	2	2	02/15/10	1.46	1.46	1.46	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	830	06/18/10		F	CS	METALS	Cobalt	Co	1.46	1.00	LANL Reg BG LVL	0.5	2.9	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	11	17	12/14/07	2.17	2.17	2.17	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-32	867.5	06/07/10		F	CS	METALS	Cobalt	Co	2.17	1.00	LANL Reg BG LVL	0.5	4.3	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	05/10/10	11.7	11.7	11.7	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		F	CS	GENINORG	Sulfate	SO4(-2)	11.7	1.00	LANL Reg BG LVL	7.2	1.6	0.1	mg/L	1				EPA:300.0	GELC	
C2	1	1	05/10/10	3.54	3.54	3.54	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		UF	CS	GENINORG	Total Organic Carbon	TOC	3.54	1.00	LANL Reg BG LVL	0.33	10.7	0.33	mg/L	1				SW-846:9060	GELC	
C2	1	1	05/10/10	50.9	50.9	50.9	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		F	CS	METALS	Iron	Fe	50.9	1.00	LANL Reg BG LVL	21	2.4	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	05/10/10	121	121	121	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		F	CS	METALS	Manganese	Mn	121	1.00	LANL Reg BG LVL	2.94	41.2	2	ug/L	1				SW-846:6010B	GELC	
C2	1	1	05/10/10	7.04	7.04	7.04	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		F	CS	METALS	Molybdenum	Mo	7.04	1.00	LANL Reg BG LVL	2	3.5	0.1	ug/L	1		J	I4a	SW-846:6020	GELC	
C2	1	1	05/10/10	4.32	4.32	4.32	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		F	CS	METALS	Zinc	Zn	4.32	1.00	LANL Reg BG LVL	3.89	1.1	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	05/19/10	0.748	0.748	0.748	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-30	1140	05/19/10		UF	CS	GENINORG	Total Organic Carbon	TOC	0.748	1.00	LANL Reg BG LVL	0.33	2.3	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	1	1	05/19/10	9.06	9.06	9.06	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-30	1140	05/19/10		F	CS	METALS	Manganese	Mn	9.06	1.00	LANL Reg BG LVL	2.94	3.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	7	9	09/08/05	0.317	0.482	0.365	9	White Rock Canyon and Rio Grande	Regional Spring	Sandia Spring	0	03/23/10	FD	F	CS	GENINORG	Perchlorate	ClO4	0.469	1.28	LANL Reg BG LVL	0.46	1.0	0.05	ug/L	1				SW-846:6850	GELC	
C2	7	9	09/08/05	0.317	0.482	0.365	9	White Rock Canyon and Rio Grande	Regional Spring	Sandia Spring	0	03/23/10		F	CS	GENINORG	Perchlorate	ClO4	0.482	1.32	LANL Reg BG LVL	0.46	1.1	0.05	ug/L	1				SW-846:6850	GELC	
C2	13	16	09/25/00	2.63	22.7	7.03	16	White Rock Canyon and Rio Grande	Regional Spring	Sandia Spring	0	03/23/10		F	CS	GENINORG	Sulfate	SO4(-2)	7.41	1.05	LANL Reg BG LVL	7.2	1.0	0.1	mg/L	1				EPA:300.0	GELC	
C2	13	16	09/25/00	2.63	22.7	7.03	16	White Rock Canyon and Rio Grande	Regional Spring	Sandia Spring	0	03/23/10	FD	F	CS	GENINORG	Sulfate	SO4(-2)	22.7	3.23	LANL Reg BG LVL	7.2	3.2	0.1	mg/L	1				EPA:300.0	GELC	
C2	8	10	09/13/04	0.62	2.28	1.1	10	White Rock Canyon and Rio Grande	Regional Spring	Sandia Spring	0	03/23/10	FD	F	CS	METALS	Uranium	U	2.16	1.96	LANL Reg BG LVL	1.9	1.1	0.05	ug/L	1				SW-846:6020	GELC	1 to 1.6 ug/L for past 5 years
C2	8	10	09/13/04	0.62	2.28	1.1	10	White Rock Canyon and Rio Grande	Regional Spring	Sandia Spring	0	03/23/10		F	CS	METALS	Uranium	U	2.28	2.07	LANL Reg BG LVL	1.9	1.2	0.05	ug/L	1				SW-846:6020	GELC	1 to 1.6 ug/L for past 5 years
C3	10	11	06/18/07	5.87	132	52.4	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Chloride	Cl(-1)	132	2.52	NM GW STD	250	1.1	1.3	mg/L	20				EPA:300.0	GELC	road salt
C3	12	14	01/11/07	3.24	3.24	3.24	1	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		UF	CS	VOA	Methylene Chloride	75-09-2	3.24	1.00	EPA MCL	5	1.3	3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	analytical lab contaminant- found in many trip blanks
C3	16	27	06/15/05	0.239	0.239	0.239	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	UF	CS	SVOA	Benzo(b)fluoranthene	205-99-2	0.239	1.00	EPA TAP SCRN LVL C-5	0.29	1.7	0.21	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	not in primary sample
C3	16	27	06/15/05	0.245	0.245	0.245	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	UF	CS	SVOA	Benzo(a)pyrene	50-32-8	0.245	1.00	EPA MCL	0.2	2.5	0.21	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	not in primary sample
C3	8	9	08/30/05	34.3	137	70.3	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCO-2	1.5	06/02/10		F	CS	GENINORG	Chloride	Cl(-1)	137	1.95	NM GW STD	250	1.1	1.3	mg/L	20				EPA:300.0	GELC	road salt
C3	3	3	06/24/08	334	604	396	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	06/08/10		F	CS	GENINORG	Total Dissolved Solids	TDS	604	1.53	NM GW STD	1000	1.2	2.4	mg/L	1				EPA:160.1	GELC	road salt
C3	2	2	09/17/08	106	590	348	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	GENINORG	Chloride	Cl(-1)	590	1.70	NM GW STD	250	4.7	3.3	mg/L	50				EPA:300.0	GELC	road salt
C3	2	2	09/17/08	337	1740	1039	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	GENINORG	Total Dissolved Solids	TDS	1740	1.67	NM GW STD	1000	3.5	2.4	mg/L	1				EPA:160.1	GELC	road salt
C3	3	3	06/25/08	209	998	217	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	METALS	Barium	Ba	998	4.60	NM GW STD	1000	2.0	1	ug/L	1				SW-846:6010B	GELC	cation exchange due to road salt
C3	4	4	04/21/09	0.802	8.64	4.721	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		F	CS	METALS	Antimony	Sb	8.64	1.83	EPA MCL	6	2.9	0.5	ug/L	1				SW-846:6020	GELC	largest groundwater values of last two years

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	note
C3	5	5	04/21/09	0.672	8.27	4.471	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		UF	CS	METALS	Antimony	Sb	8.27	1.85	EPA MCL	6	2.8	0.5	ug/L	1				SW-846:6020	GELC	largest groundwater values of last two years
C3	14	19	03/10/04	0.169	10.8	0.224	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10	FD	UF	CS	METALS	Lead	Pb	10.8	48.21	EPA MCL	15	1.4	0.5	ug/L	1				SW-846:6020	GELC	primary sample was nondetect
C3	1	1	05/10/10	121	121	121	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	05/10/10		F	CS	METALS	Manganese	Mn	121	1.00	NM GW STD	200	1.2	2	ug/L	1				SW-846:6010B	GELC	
C5	30	34	10/24/01	1.22	2.97	1.97	34	Pueblo Canyon (includes Acid Canyon)	Water Supply	O-1	1017	03/02/10		UF	CS	GENINORG	Perchlorate	ClO4	1.25	0.63	LANL Reg BG LVL	0.05	12.5	0.1	ug/L	2				SW-846:6850	GELC	
C5	28	30	10/24/01	0.354	0.55	0.381	29	Upper Los Alamos Canyon (includes DP Canyon)	Water Supply	O-4	1115	03/02/10		UF	CS	GENINORG	Perchlorate	ClO4	0.446	1.17	LANL Reg BG LVL	0.05	4.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	6	6	02/20/09	0.229	0.611	0.478	6	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	GENINORG	Bromide	Br(-1)	0.399	0.83	LANL Avl BG LVL	0.07	2.9	0.066	mg/L	1				EPA:300.0	GELC	
C5	6	6	02/20/09	12.1	30.1	15.6	6	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	GENINORG	Potassium	K	25.5	1.63	LANL Avl BG LVL	5.21	2.5	0.05	mg/L	1				SW-846:6010B	GELC	
C5	6	6	02/20/09	75.9	197	90.1	6	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	GENINORG	Sodium	Na	82	0.91	LANL Avl BG LVL	15.54	2.6	0.1	mg/L	1				SW-846:6010B	GELC	
C5	5	5	02/20/09	0.674	3.95	3	5	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	3.95	1.32	LANL Avl BG LVL	0.05	39.5	0.075	mg/L	5				EPA:365.4	GELC	
C5	6	6	02/20/09	396	798	458	6	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	GENINORG	Total Dissolved Solids	TDS	419	0.91	LANL Avl BG LVL	139	1.5	2.4	mg/L	1				EPA:160.1	GELC	
C5	6	8	02/20/09	2.69	18.5	7.06	7	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	METALS	Chromium	Cr	17.8	2.52	LANL Avl BG LVL	1	8.9	2.5	ug/L	1				SW-846:6020	GELC	
C5	6	6	02/20/09	410	870	697	6	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	METALS	Manganese	Mn	410	0.59	LANL Avl BG LVL	2	102.5	2	ug/L	1				SW-846:6010B	GELC	
C5	6	6	02/20/09	5.52	8.91	7.28	4	Sandia Canyon	Alluvial	SCA-1-DP	2.16	05/13/10		F	CS	METALS	Zinc	Zn	5.95	0.82	LANL Avl BG LVL	2	1.5	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	9	10	02/13/07	0.182	0.555	0.406	10	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	GENINORG	Bromide	Br(-1)	0.321	0.79	LANL Avl BG LVL	0.07	2.3	0.066	mg/L	1				EPA:300.0	GELC	
C5	9	10	02/13/07	0.128	2.68	0.404	10	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	GENINORG	Perchlorate	ClO4	0.355	0.88	LANL Avl BG LVL	0.05	3.6	0.05	ug/L	1				SW-846:6850	GELC	
C5	9	11	02/13/07	10.8	17.5	13.9	11	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	GENINORG	Potassium	K	17.5	1.26	LANL Avl BG LVL	5.21	1.7	0.05	mg/L	1				SW-846:6010B	GELC	
C5	9	11	02/13/07	46.1	157	109	11	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	GENINORG	Sodium	Na	89.1	0.82	LANL Avl BG LVL	15.54	2.9	0.1	mg/L	1				SW-846:6010B	GELC	
C5	8	9	02/13/07	0.294	3.04	2.49	9	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	3.04	1.22	LANL Avl BG LVL	0.05	30.4	0.075	mg/L	5				EPA:365.4	GELC	
C5	9	10	02/13/07	295	750	436	10	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	GENINORG	Total Dissolved Solids	TDS	435	1.00	LANL Avl BG LVL	139	1.6	2.4	mg/L	1				EPA:160.1	GELC	
C5	9	11	02/13/07	4.8	10	6.4	9	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	METALS	Chromium	Cr	7.69	1.20	LANL Avl BG LVL	1	3.9	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	9	11	02/13/07	5.19	14.7	12.3	9	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	METALS	Molybdenum	Mo	14.7	1.20	LANL Avl BG LVL	2	3.7	0.1	ug/L	1				SW-846:6020	GELC	
C5	9	11	02/13/07	4.6	19.1	9.2	9	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	METALS	Vanadium	V	14.1	1.53	LANL Avl BG LVL	1	7.1	1	ug/L	1				SW-846:6010B	GELC	
C5	9	11	02/13/07	7.73	195	25.1	11	Sandia Canyon	Alluvial	SCA-2	10.3	05/12/10		F	CS	METALS	Zinc	Zn	16.5	0.66	LANL Avl BG LVL	2	4.1	3.3	ug/L	1				SW-846:6010B	GELC	
C5	10	11	06/18/07	0.24	0.526	0.317	10	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Bromide	Br(-1)	0.323	1.02	LANL Avl BG LVL	0.07	2.3	0.066	mg/L	1				EPA:300.0	GELC	
C5	10	11	06/18/07	0.231	1.74	0.406	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Perchlorate	ClO4	1.74	4.29	LANL Avl BG LVL	0.05	17.4	0.2	ug/L	4				SW-846:6850	GELC	from Sandia Canyon effluent
C5	10	11	06/18/07	1.18	729	1.56	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.29	0.83	LANL Avl BG LVL	0.57	1.1	0.05	mg/L	5				EPA:353.2	GELC	
C5	10	11	06/18/07	68.7	103	90	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Sodium	Na	102	1.13	LANL Avl BG LVL	15.54	3.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	10	11	06/18/07	1.38	7.56	2.85	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	1.82	0.64	LANL Avl BG LVL	0.05	18.2	0.015	mg/L	1				EPA:365.4	GELC	
C5	10	11	06/18/07	284	449	328	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	GENINORG	Total Dissolved Solids	TDS	449	1.37	LANL Avl BG LVL	139	1.6	2.4	mg/L	1				EPA:160.1	GELC	
C5	10	11	06/18/07	5.2	16.2	11.5	10	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	METALS	Chromium	Cr	11.2	0.97	LANL Avl BG LVL	1	5.6	2.5	ug/L	1				SW-846:6020	GELC	
C5	10	11	06/18/07	14.5	67	32.9	11	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	METALS	Molybdenum	Mo	18.7	0.57	LANL Avl BG LVL	2	4.7	0.1	ug/L	1				SW-846:6020	GELC	
C5	10	11	06/18/07	7.6	13.7	9.5	10	Sandia Canyon	Alluvial	SCA-4	37	05/10/10		F	CS	METALS	Vanadium	V	8.3	0.87	LANL Avl BG LVL	1	4.2	1	ug/L	1				SW-846:6010B	GELC	
C5	15	15	01/11/07	1.02	1.53	1.25	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Bromide	Br(-1)	1.02	0.82	LANL Int BG LVL	0.03	17.0	0.066	mg/L	1				EPA:300.0	GELC	
C5	15	17	01/11/07	67.8	87.6	77.1	16	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Calcium	Ca	69.2	0.90	LANL Int BG LVL	17.31	2.0	0.05	mg/L	1				SW-846:6010B	GELC	
C5	15	15	01/11/07	82	98.7	88.9	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Chloride	Cl(-1)	84.6	0.95	LANL Int BG LVL	7.78	5.4	0.66	mg/L	10				EPA:300.0	GELC	
C5	15	15	01/11/07	0.868	1.58	1.27	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Perchlorate	ClO4	0.868	0.68	LANL Int BG LVL	0.05	8.7	0.05	ug/L	1		J	PE12e	SW-846:6850	GELC	
C5	15	17	01/11/07	50.7	62.1	54	16	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Sodium	Na	52.6	0.97	LANL Int BG LVL	12.19	2.2	0.1	mg/L	1				SW-846:6010B	GELC	
C5	15	15	01/11/07	0.404	1.01	0.826	14	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.842	1.02	LANL Int BG LVL	0.08	5.3	0.015	mg/L	1				EPA:365.4	GELC	
C5	15	15	01/11/07	92.9	112	104	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Sulfate	SO4(-2)	92.9	0.89	LANL Int BG LVL	40.03	1.2	1	mg/L	10				EPA:300.0	GELC	
C5	15	15	01/11/07	455	536	494	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	GENINORG	Total Dissolved Solids	TDS	488	0.99	LANL Int BG LVL	127	1.9	2.4	mg/L	1				EPA:160.1	GELC	
C5	15	17	01/11/07	79.8	98	93.1	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	METALS	Boron	B	86.2	0.93	LANL Int BG LVL	15.12	2.9	15	ug/L	1				SW-846:6010B	GELC	
C5	15	18	01/11/07	11	22.1	13.7	18	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	METALS	Chromium	Cr	13.5	0.99	LANL Int BG LVL	1	6.8	2.5	ug/L	1				SW-846:6020	GELC	
C5	15	16	01/11/07	43.9	93.9	66.4	16	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	METALS	Molybdenum	Mo	92.5	1.39	LANL Int BG LVL	2	23.1	0.1	ug/L	1				SW-846:6020	GELC	
C5	15	15	01/11/07	4.3	8.1	5.7	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	METALS	Nickel	Ni	4.43	0.78	LANL Int BG LVL	1	2.2	0.5	ug/L	1				SW-846:6020	GELC	
C5	15	15	01/11/07	1.8	3.05	2.5	15	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	METALS	Uranium	U	2.61	1.04	LANL Int BG LVL	0.72	1.8	0.05	ug/L	1				SW-846:6020	GELC	
C5	15	17	01/11/07	2.4	8.78	5.3	9	Sandia Canyon	Intermediate	SCI-1	358.4	05/07/10		F	CS	METALS	Zinc	Zn	8.78	1.66	LANL Int BG LVL	2	2.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	8	10	10/21/08	0.194	0.498	0.43	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	GENINORG	Bromide	Br(-1)	0.475	1.10	LANL Int BG LVL	0.03	7.9	0.066	mg/L	1		J+	I6b	EPA:300.0	GELC	
C5	8	12	10/21/08	59.5	66.7	62.8	12	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	GENINORG	Calcium	Ca	61.7	0.98	LANL Int BG LVL	17.31	1.8	0.05	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	note
C5	8	10	10/21/08	53.4	62.1	55.6	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	GENINORG	Chloride	Cl(-1)	54	0.97	LANL Int BG LVL	7.78	3.5	0.66	mg/L	10				EPA:300.0	GELC	
C5	8	10	10/21/08	0.936	1.12	0.985	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	GENINORG	Perchlorate	ClO4	0.979	0.99	LANL Int BG LVL	0.05	9.8	0.05	ug/L	1				SW-846:6850	GELC	
C5	8	12	10/21/08	13.1	15.4	13.9	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	GENINORG	Magnesium	Mg	14	1.01	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C5	8	10	10/21/08	83.3	101	86.8	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	GENINORG	Sulfate	SO4(-2)	83.3	0.96	LANL Int BG LVL	40.03	1.0	1	mg/L	10				EPA:300.0	GELC	
C5	8	10	10/21/08	354	451	409	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	GENINORG	Total Dissolved Solids	TDS	415	1.01	LANL Int BG LVL	127	1.6	2.4	mg/L	1				EPA:160.1	GELC	
C5	8	18	10/21/08	471	658	562	18	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	METALS	Chromium	Cr	526	0.94	LANL Int BG LVL	1	263.0	2.5	ug/L	1				SW-846:6020	GELC	
C5	8	12	10/21/08	14.5	19	16.2	12	Sandia Canyon	Intermediate	SCI-2	548	05/06/10		F	CS	METALS	Nickel	Ni	15.8	0.98	LANL Int BG LVL	1	7.9	0.5	ug/L	1				SW-846:6020	GELC	
C5	14	15	09/18/00	0.07	0.128	0.101	6	Sandia Canyon	Intermediate	R-12	459	02/09/10		F	CS	GENINORG	Bromide	Br(-1)	0.102	1.01	LANL Int BG LVL	0.03	1.7	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	15	16	09/18/00	0.07	0.128	0.1	7	Sandia Canyon	Intermediate	R-12	459	05/05/10		F	CS	GENINORG	Bromide	Br(-1)	0.0983	0.98	LANL Int BG LVL	0.03	1.6	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	11	13	06/16/05	0.193	0.363	0.263	11	Sandia Canyon	Intermediate	R-12	459	05/05/10		F	CS	GENINORG	Perchlorate	ClO4	0.282	1.07	LANL Int BG LVL	0.05	2.8	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	12	06/16/05	0.193	0.363	0.261	10	Sandia Canyon	Intermediate	R-12	459	02/09/10		F	CS	GENINORG	Perchlorate	ClO4	0.258	0.99	LANL Int BG LVL	0.05	2.6	0.05	ug/L	1				SW-846:6850	GELC	
C5	15	16	09/18/00	33	122	48	14	Sandia Canyon	Intermediate	R-12	459	02/09/10		F	CS	METALS	Boron	B	33	0.69	LANL Int BG LVL	15.12	1.1	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	16	17	09/18/00	33	122	46	15	Sandia Canyon	Intermediate	R-12	459	05/05/10		F	CS	METALS	Boron	B	43.6	0.95	LANL Int BG LVL	15.12	1.4	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	15	16	09/18/00	35.8	860	167	16	Sandia Canyon	Intermediate	R-12	459	02/09/10		F	CS	METALS	Manganese	Mn	131	0.78	LANL Int BG LVL	2	32.8	2	ug/L	1				SW-846:6010B	GELC	
C5	16	17	09/18/00	35.8	860	161	17	Sandia Canyon	Intermediate	R-12	459	05/05/10		F	CS	METALS	Manganese	Mn	142	0.88	LANL Int BG LVL	2	35.5	2	ug/L	1				SW-846:6010B	GELC	
C5	11	12	02/01/06	0.846	1.16	1	11	Sandia Canyon	Intermediate	R-12	504.5	05/17/10		F	CS	GENINORG	Perchlorate	ClO4	0.846	0.85	LANL Int BG LVL	0.05	8.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	11	02/01/06	0.907	1.16	1.04	10	Sandia Canyon	Intermediate	R-12	504.5	02/09/10		F	CS	GENINORG	Perchlorate	ClO4	0.907	0.87	LANL Int BG LVL	0.05	9.1	0.1	ug/L	2				SW-846:6850	GELC	
C5	15	17	09/19/00	23.6	180	40.2	16	Sandia Canyon	Intermediate	R-12	504.5	05/17/10		F	CS	METALS	Manganese	Mn	36.9	0.92	LANL Int BG LVL	2	9.2	2	ug/L	1				SW-846:6010B	GELC	
C5	14	16	09/19/00	23.6	180	42.4	15	Sandia Canyon	Intermediate	R-12	504.5	02/09/10		F	CS	METALS	Manganese	Mn	36.9	0.87	LANL Int BG LVL	2	9.2	2	ug/L	1				SW-846:6010B	GELC	
C5	6	6	11/05/08	5.21	6.03	5.51	5	Sandia Canyon	Regional	R-43	903.9	05/10/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.51	1.00	LANL Reg BG LVL	0.89	3.1	0.1	mg/L	10				EPA:353.2	GELC	
C5	6	8	11/10/08	2.1	6.52	3.24	8	Sandia Canyon	Regional	R-43	969.1	05/10/10		F	CS	METALS	Molybdenum	Mo	4.25	1.31	LANL Reg BG LVL	2	1.1	0.1	ug/L	1				SW-846:6020	GELC	
C5	20	26	05/17/05	3.41	7.43	5	26	Sandia Canyon	Regional	R-11	855	05/05/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.23	1.05	LANL Reg BG LVL	0.89	2.9	0.1	mg/L	10				EPA:353.2	GELC	
C5	21	30	05/17/05	13.5	34.9	21	30	Sandia Canyon	Regional	R-11	855	05/05/10		F	CS	METALS	Chromium	Cr	22.7	1.08	LANL Reg BG LVL	5.75	2.0	2.5	ug/L	1				SW-846:6020	GELC	
C5	20	26	05/17/05	9.33	37	12	20	Sandia Canyon	Regional	R-11	855	05/05/10		F	CS	METALS	Zinc	Zn	9.33	0.78	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	12	19	08/29/07	26.2	62.3	34.7	19	Sandia Canyon	Regional	R-35b	825.4	05/12/10	FD	F	CS	METALS	Zinc	Zn	34.6	1.00	LANL Reg BG LVL	3.89	4.5	3.3	ug/L	1				SW-846:6010B	GELC	
C5	12	19	08/29/07	26.2	62.3	34.7	19	Sandia Canyon	Regional	R-35b	825.4	05/12/10		F	CS	METALS	Zinc	Zn	36.2	1.04	LANL Reg BG LVL	3.89	4.7	3.3	ug/L	1				SW-846:6010B	GELC	
C5	12	13	08/30/07	1.2	17	7.8	12	Sandia Canyon	Regional	R-35a	1013.1	05/14/10		F	CS	METALS	Nickel	Ni	10.7	1.37	LANL Reg BG LVL	3.09	1.7	0.5	ug/L	1				SW-846:6020	GELC	
C5	12	15	08/30/07	2.3	185	12.4	13	Sandia Canyon	Regional	R-35a	1013.1	05/14/10		F	CS	METALS	Zinc	Zn	9.45	0.76	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	9	11	05/12/08	1.43	1.74	1.62	11	Sandia Canyon	Regional	R-36	766.9	05/12/10		F	CS	GENINORG	Perchlorate	ClO4	1.55	0.96	LANL Reg BG LVL	0.46	1.7	0.2	ug/L	4				SW-846:6850	GELC	
C5	9	11	05/12/08	2.06	2.49	2.3	11	Sandia Canyon	Regional	R-36	766.9	05/12/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.49	1.08	LANL Reg BG LVL	0.89	1.4	0.1	mg/L	10		J	I4a	EPA:353.2	GELC	
C5	9	11	05/12/08	58.9	75.3	67.3	11	Sandia Canyon	Regional	R-36	766.9	05/12/10		F	CS	METALS	Zinc	Zn	67.3	1.00	LANL Reg BG LVL	3.89	8.7	3.3	ug/L	1				SW-846:6010B	GELC	
C5	20	25	06/14/05	0.421	4.15	2.25	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	05/14/10		F	CS	GENINORG	Perchlorate	ClO4	1.11	0.49	LANL Avl BG LVL	0.05	11.1	0.1	ug/L	2				SW-846:6850	GELC	
C5	42	59	07/17/00	144	1290	307	57	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	05/14/10		F	CS	GENINORG	Total Dissolved Solids	TDS	330	1.07	LANL Avl BG LVL	139	1.2	2.4	mg/L	1				EPA:160.1	GELC	
C5	24	30	04/21/05	3.3	44.3	16.6	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	05/14/10		F	CS	GENINORG	Perchlorate	ClO4	7.07	0.43	LANL Avl BG LVL	0.05	70.7	0.5	ug/L	10				SW-846:6850	GELC	
C5	33	42	05/24/01	0.575	1.07	0.889	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	05/14/10		F	CS	GENINORG	Fluoride	F(-1)	0.575	0.65	LANL Avl BG LVL	0.27	1.1	0.033	mg/L	1				EPA:300.0	GELC	
C5	25	30	04/27/05	4.61	31.7	21.9	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	05/11/10		F	CS	GENINORG	Perchlorate	ClO4	4.61	0.21	LANL Avl BG LVL	0.05	46.1	0.5	ug/L	10				SW-846:6850	GELC	
C5	46	54	02/24/00	0.77	1.51	1.08	54	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	05/11/10		F	CS	GENINORG	Fluoride	F(-1)	0.872	0.81	LANL Avl BG LVL	0.27	1.6	0.033	mg/L	1				EPA:300.0	GELC	
C5	24	29	04/28/05	7.26	47.5	26.9	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	05/11/10		F	CS	GENINORG	Perchlorate	ClO4	7.54	0.28	LANL Avl BG LVL	0.05	75.4	0.5	ug/L	10				SW-846:6850	GELC	
C5	47	56	02/24/00	0.932	2.13	1.33	55	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	05/11/10		F	CS	GENINORG	Fluoride	F(-1)	1.01	0.76	LANL Avl BG LVL	0.27	1.9	0.033	mg/L	1				EPA:300.0	GELC	
C5	47	57	02/24/00	1.11	12.5	3.25	56	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	05/11/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.36	0.42	LANL Avl BG LVL	0.57	1.2	0.05	mg/L	5		J	I4a	EPA:353.2	GELC	
C5	21	23	08/07/01	0.04	0.416	0.289	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	05/11/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.205	0.71	LANL Avl BG LVL	0.05	2.1	0.015	mg/L	1				EPA:365.4	GELC	
C5	11	12	11/14/06	0.298	0.411	0.332	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	CDBO-6	34	06/01/10		F	CS	GENINORG	Perchlorate	ClO4	0.331	1.00	LANL Avl BG LVL	0.05	3.3	0.05	ug/L	1				SW-846:6850	GELC	
C5	13	16	05/01/01	3.44	6.5	4.75	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	CDBO-6	34	06/01/10		F	CS	METALS	Vanadium	V	3.62	0.76	LANL Avl BG LVL	1	1.8	1	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	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	note
C5	18	18	06/23/05	0.291	0.606	0.405	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/04/10		F	CS	GENINORG	Bromide	Br(-1)	0.408	1.01	LANL Int BG LVL	0.03	6.8	0.066	mg/L	1				EPA:300.0	GELC	
C5	18	18	06/23/05	18.4	21	19.5	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/04/10		F	CS	GENINORG	Chloride	Cl(-1)	19.5	1.00	LANL Int BG LVL	7.78	1.3	0.13	mg/L	2				EPA:300.0	GELC	
C5	18	18	06/23/05	50.2	166	102.4	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/04/10		F	CS	GENINORG	Perchlorate	ClO4	51.7	0.50	LANL Int BG LVL	0.05	517.0	5	ug/L	100				SW-846:6850	GELC	
C5	18	18	06/23/05	8.88	17.7	12.7	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/04/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	9.4	0.74	LANL Int BG LVL	2.41	2.0	0.25	mg/L	25		J	I4a	EPA:353.2	GELC	
C5	18	18	06/23/05	2.14	5.61	3	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/04/10		F	CS	METALS	Nickel	Ni	2.14	0.71	LANL Int BG LVL	1	1.1	0.5	ug/L	1				SW-846:6020	GELC	
C5	18	18	06/23/05	5.3	369	30.2	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/04/10		F	CS	METALS	Zinc	Zn	16.3	0.54	LANL Int BG LVL	2	4.1	3.3	ug/L	1				SW-846:6010B	GELC	
C5	19	30	06/15/05	0.212	0.673	0.394	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Bromide	Br(-1)	0.657	1.67	LANL Int BG LVL	0.03	11.0	0.066	mg/L	1				EPA:300.0	GELC	
C5	19	30	06/15/05	0.212	0.673	0.394	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Bromide	Br(-1)	0.64	1.62	LANL Int BG LVL	0.03	10.7	0.066	mg/L	1				EPA:300.0	GELC	
C5	19	30	06/15/05	42.8	74.5	55.2	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Calcium	Ca	64.9	1.18	LANL Int BG LVL	17.31	1.9	0.05	mg/L	1				SW-846:6010B	GELC	
C5	19	30	06/15/05	42.8	74.5	55.2	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Calcium	Ca	64.4	1.17	LANL Int BG LVL	17.31	1.9	0.05	mg/L	1				SW-846:6010B	GELC	
C5	19	30	06/15/05	21.2	53.6	29.4	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Chloride	Cl(-1)	53.6	1.82	LANL Int BG LVL	7.78	3.4	0.33	mg/L	5				EPA:300.0	GELC	
C5	19	30	06/15/05	21.2	53.6	29.4	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Chloride	Cl(-1)	53.3	1.81	LANL Int BG LVL	7.78	3.4	0.33	mg/L	5				EPA:300.0	GELC	
C5	19	30	06/15/05	78.6	246	159.5	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Perchlorate	ClO4	79.2	0.50	LANL Int BG LVL	0.05	792.0	10	ug/L	200		J+	PE12f	SW-846:6850	GELC	
C5	19	30	06/15/05	78.6	246	159.5	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Perchlorate	ClO4	78.6	0.49	LANL Int BG LVL	0.05	786.0	10	ug/L	200		J+	PE12f	SW-846:6850	GELC	
C5	19	30	06/15/05	8.49	15.3	10.9	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Magnesium	Mg	13.4	1.23	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C5	19	30	06/15/05	8.49	15.3	10.9	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Magnesium	Mg	13.4	1.23	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C5	19	31	06/15/05	10.7	20.4	16.8	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.7	0.64	LANL Int BG LVL	2.41	2.2	0.25	mg/L	25		J	I4a	EPA:353.2	GELC	
C5	19	31	06/15/05	10.7	20.4	16.8	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.9	0.65	LANL Int BG LVL	2.41	2.3	0.25	mg/L	25		J	I4a	EPA:353.2	GELC	
C5	19	30	06/15/05	19.5	28.2	22.7	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Sodium	Na	26.8	1.18	LANL Int BG LVL	12.19	1.1	0.1	mg/L	1				SW-846:6010B	GELC	
C5	19	30	06/15/05	19.5	28.2	22.7	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Sodium	Na	26.5	1.17	LANL Int BG LVL	12.19	1.1	0.1	mg/L	1				SW-846:6010B	GELC	
C5	19	38	06/15/05	298	476	370	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	GENINORG	Total Dissolved Solids	TDS	435	1.18	LANL Int BG LVL	127	1.7	2.4	mg/L	1				EPA:160.1	GELC	
C5	19	38	06/15/05	298	476	370	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	GENINORG	Total Dissolved Solids	TDS	451	1.22	LANL Int BG LVL	127	1.8	2.4	mg/L	1				EPA:160.1	GELC	
C5	19	30	06/15/05	25.4	44.8	32.8	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	METALS	Boron	B	44.8	1.37	LANL Int BG LVL	15.12	1.5	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	19	30	06/15/05	25.4	44.8	32.8	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	METALS	Boron	B	43.9	1.34	LANL Int BG LVL	15.12	1.5	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	19	33	06/15/05	29.4	58.2	43.3	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	METALS	Chromium	Cr	48.7	1.12	LANL Int BG LVL	1	24.4	2.5	ug/L	1				SW-846:6020	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	note
C5	19	33	06/15/05	29.4	58.2	43.3	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	METALS	Chromium	Cr	46.7	1.08	LANL Int BG LVL	1	23.4	2.5	ug/L	1				SW-846:6020	GELC	
C5	19	30	06/15/05	2.9	17.5	5.8	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	METALS	Nickel	Ni	17.5	3.02	LANL Int BG LVL	1	8.8	0.5	ug/L	1				SW-846:6020	GELC	
C5	19	30	06/15/05	2.9	17.5	5.8	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	METALS	Nickel	Ni	16.6	2.86	LANL Int BG LVL	1	8.3	0.5	ug/L	1				SW-846:6020	GELC	
C5	19	30	06/15/05	23.7	288	51.6	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10		F	CS	METALS	Zinc	Zn	39.4	0.76	LANL Int BG LVL	2	9.9	3.3	ug/L	1				SW-846:6010B	GELC	
C5	19	30	06/15/05	23.7	288	51.6	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	F	CS	METALS	Zinc	Zn	36.7	0.71	LANL Int BG LVL	2	9.2	3.3	ug/L	1				SW-846:6010B	GELC	
C5	7	8	03/11/09	1.09	7.67	3.09	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/07/10		UF	CS	GENINORG	Total Organic Carbon	TOC	2.16	0.70	LANL Reg BG LVL	0.33	3.3	0.33	mg/L	1				SW-846:9060	GELC	
C5	13	14	06/27/05	3.66	50.5	9.83	13	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33	995.5	05/12/10		F	CS	METALS	Zinc	Zn	50.5	5.14	LANL Reg BG LVL	3.89	6.5	3.3	ug/L	1				SW-846:6010B	GELC	
C5	19	24	05/25/05	5.34	7.38	6.55	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	05/17/10		F	CS	GENINORG	Perchlorate	ClO4	7.02	1.07	LANL Reg BG LVL	0.46	7.6	0.5	ug/L	10				SW-846:6850	GELC	
C5	23	28	02/24/00	1.89	3.31	2.24	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	05/17/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.13	0.95	LANL Reg BG LVL	0.89	1.2	0.1	mg/L	10				EPA:353.2	GELC	
C5	8	9	10/09/08	28.7	33.9	32.1	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	GENINORG	Chloride	Cl(-1)	33.9	1.06	LANL Reg BG LVL	3.57	4.8	0.33	mg/L	5				EPA:300.0	GELC	
C5	8	9	10/09/08	1.18	1.38	1.28	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	GENINORG	Perchlorate	ClO4	1.31	1.02	LANL Reg BG LVL	0.46	1.4	0.1	ug/L	2				SW-846:6850	GELC	
C5	8	9	10/09/08	11.1	13.4	12.6	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	GENINORG	Magnesium	Mg	13.4	1.06	LANL Reg BG LVL	4.15	1.6	0.085	mg/L	1				SW-846:6010B	GELC	
C5	8	9	10/09/08	5.83	7.03	6.03	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.34	1.05	LANL Reg BG LVL	0.89	3.6	0.1	mg/L	10		J	I4a	EPA:353.2	GELC	
C5	8	9	10/09/08	60.6	80.6	61.8	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	GENINORG	Sulfate	SO4(-2)	80.6	1.30	LANL Reg BG LVL	7.2	5.6	0.1	mg/L	1				EPA:300.0	GELC	
C5	8	9	10/09/08	1.06	2.84	1.58	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		UF	CS	GENINORG	Total Organic Carbon	TOC	1.21	0.77	LANL Reg BG LVL	0.33	1.8	0.33	mg/L	1				SW-846:9060	GELC	
C5	8	19	10/09/08	744	1240	850	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	METALS	Chromium	Cr	850	1.00	LANL Reg BG LVL	5.75	73.9	2.5	ug/L	1				SW-846:6020	GELC	
C5	8	9	10/09/08	8.8	25.3	10.9	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	METALS	Nickel	Ni	25.3	2.32	LANL Reg BG LVL	3.09	4.1	0.5	ug/L	1				SW-846:6020	GELC	
C5	8	9	10/09/08	7.7	28.1	21.7	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/13/10		F	CS	METALS	Zinc	Zn	22.3	1.03	LANL Reg BG LVL	3.89	2.9	3.3	ug/L	1				SW-846:6010B	GELC	
C5	22	25	05/20/05	0.113	0.244	0.19	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	05/13/10		F	CS	GENINORG	Bromide	Br(-1)	0.244	1.28	LANL Reg BG LVL	0.1	1.2	0.066	mg/L	1				EPA:300.0	GELC	
C5	22	25	05/20/05	21.1	31.7	28.6	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	05/13/10		F	CS	GENINORG	Chloride	Cl(-1)	30.2	1.06	LANL Reg BG LVL	3.57	4.2	0.33	mg/L	5				EPA:300.0	GELC	
C5	22	25	05/20/05	8.68	11.3	10.1	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	05/13/10		F	CS	GENINORG	Magnesium	Mg	10.8	1.07	LANL Reg BG LVL	4.15	1.3	0.085	mg/L	1				SW-846:6010B	GELC	
C5	20	22	05/20/05	3.1	5.39	4.26	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	05/13/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.24	1.00	LANL Reg BG LVL	0.89	2.4	0.1	mg/L	10		J	I4a	EPA:353.2	GELC	
C5	22	25	05/20/05	38.1	50.6	42.6	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	05/13/10		F	CS	GENINORG	Sulfate	SO4(-2)	50.6	1.19	LANL Reg BG LVL	7.2	3.5	0.1	mg/L	1				EPA:300.0	GELC	
C5	23	27	05/20/05	310	468	388	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	05/13/10		F	CS	METALS	Chromium	Cr	342	0.88	LANL Reg BG LVL	5.75	29.7	2.5	ug/L	1				SW-846:6020	GELC	
C5	22	25	05/20/05	6.1	21.1	10.6	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	05/13/10		F	CS	METALS	Nickel	Ni	19	1.79	LANL Reg BG LVL	3.09	3.1	0.5	ug/L	1				SW-846:6020	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	note
C5	6	6	02/28/09	0.612	2.28	1.91	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	05/13/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.28	1.19	LANL Reg BG LVL	0.89	1.3	0.1	mg/L	10		J	I4a	EPA:353.2	GELC	
C5	6	10	02/28/09	8.4	21.4	14.5	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	05/13/10		F	CS	METALS	Chromium	Cr	14.5	1.00	LANL Reg BG LVL	5.75	1.3	2.5	ug/L	1				SW-846:6020	GELC	
C5	6	6	02/28/09	2.8	63.2	23.5	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	05/13/10		F	CS	METALS	Zinc	Zn	9.43	0.40	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	6	10	02/17/09	7.34	14.1	10.9	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	895	05/04/10		F	CS	METALS	Chromium	Cr	14.1	1.29	LANL Reg BG LVL	5.75	1.2	2.5	ug/L	1				SW-846:6020	GELC	
C5	6	6	07/13/09	0.435	0.613	0.519	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-37	929.3	06/16/10		F	CS	GENINORG	Perchlorate	ClO4	0.492	0.95	LANL Int BG LVL	0.05	4.9	0.05	ug/L	1				SW-846:6850	GELC	
C5	6	7	02/06/09	8.91	27.5	12.4	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	06/02/10	FD	F	CS	METALS	Nickel	Ni	8.91	0.72	LANL Reg BG LVL	3.09	1.4	0.5	ug/L	1				SW-846:6020	GELC	
C5	6	7	02/06/09	8.91	27.5	12.4	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	06/02/10		F	CS	METALS	Nickel	Ni	9.21	0.74	LANL Reg BG LVL	3.09	1.5	0.5	ug/L	1				SW-846:6020	GELC	
C5	6	7	04/01/09	5.77	55.3	12.2	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-41	965.3	06/09/10		F	CS	METALS	Manganese	Mn	6.63	0.54	LANL Reg BG LVL	2.94	1.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	6	7	04/01/09	5.77	55.3	12.2	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-41	965.3	06/09/10	FD	F	CS	METALS	Manganese	Mn	6.83	0.56	LANL Reg BG LVL	2.94	1.2	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	6	7	04/01/09	3.89	8.69	5.13	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-41	965.3	06/09/10	FD	F	CS	METALS	Molybdenum	Mo	4.09	0.80	LANL Reg BG LVL	2	1.0	0.1	ug/L	1				SW-846:6020	GELC	
C5	6	7	04/01/09	3.89	8.69	5.13	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-41	965.3	06/09/10		F	CS	METALS	Molybdenum	Mo	4.18	0.81	LANL Reg BG LVL	2	1.1	0.1	ug/L	1				SW-846:6020	GELC	
C5	6	9	03/19/04	1.68	9.47	6.42	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	05/07/10		F	CS	METALS	Zinc	Zn	9.47	1.48	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	14	14	11/28/01	0.295	0.366	0.338	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Water Supply	PM-4	1260	03/02/10		UF	CS	GENINORG	Perchlorate	ClO4	0.366	1.08	LANL Reg BG LVL	0.05	3.7	0.05	ug/L	1				SW-846:6850	GELC	
C5	28	35	10/24/01	0.296	0.444	0.342	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Water Supply	PM-5	1440	03/02/10	FD	UF	CS	GENINORG	Perchlorate	ClO4	0.372	1.09	LANL Reg BG LVL	0.05	3.7	0.05	ug/L	1				SW-846:6850	GELC	
C5	28	35	10/24/01	0.296	0.444	0.342	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Water Supply	PM-5	1440	03/02/10		UF	CS	GENINORG	Perchlorate	ClO4	0.383	1.12	LANL Reg BG LVL	0.05	3.8	0.05	ug/L	1				SW-846:6850	GELC	
C5	8	9	08/30/05	20.5	56.9	41.1	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCO-2	1.5	06/02/10		F	CS	GENINORG	Sodium	Na	56.2	1.37	LANL Avl BG LVL	15.54	1.8	0.1	mg/L	1				SW-846:6010B	GELC	
C5	3	3	06/24/08	0.113	0.285	0.135	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	06/08/10		F	CS	GENINORG	Perchlorate	ClO4	0.285	2.11	LANL Avl BG LVL	0.05	2.9	0.05	ug/L	1				SW-846:6850	GELC	
C5	3	3	06/24/08	37	69.9	56.3	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	06/08/10		F	CS	GENINORG	Sodium	Na	69.9	1.24	LANL Avl BG LVL	15.54	2.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	3	3	06/24/08	334	604	396	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	06/08/10		F	CS	GENINORG	Total Dissolved Solids	TDS	604	1.53	LANL Avl BG LVL	139	2.2	2.4	mg/L	1				EPA:160.1	GELC	road salt
C5	3	3	06/24/08	219	328	253	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	06/08/10		F	CS	METALS	Barium	Ba	328	1.30	LANL Avl BG LVL	68.57	2.4	1	ug/L	1				SW-846:6010B	GELC	cation exchange due to road salt
C5	3	3	06/24/08	281	457	337	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	06/08/10		F	CS	METALS	Strontium	Sr	457	1.36	LANL Avl BG LVL	120	1.9	1	ug/L	1				SW-846:6010B	GELC	
C5	3	3	06/25/08	57.8	152	62.9	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	GENINORG	Sodium	Na	152	2.42	LANL Avl BG LVL	15.54	4.9	0.1	mg/L	1				SW-846:6010B	GELC	
C5	3	3	06/25/08	209	998	217	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	METALS	Barium	Ba	998	4.60	LANL Avl BG LVL	68.57	7.3	1	ug/L	1				SW-846:6010B	GELC	cation exchange due to road salt
C5	17	27	06/23/06	18.5	610	142	27	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	06/08/10		F	CS	GENINORG	Chloride	Cl(-1)	221	1.56	LANL Int BG LVL	7.78	14.2	1.3	mg/L	20				EPA:300.0	GELC	road salt
C5	17	27	06/23/06	3.3	83.5	31.4	26	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	06/08/10		F	CS	METALS	Zinc	Zn	34.9	1.11	LANL Int BG LVL	2	8.7	3.3	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	note
C5	5	6	06/11/09	0.16	0.192	0.171	6	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	06/07/10	FD	F	CS	GENINORG	Perchlorate	ClO4	0.169	0.99	LANL Int BG LVL	0.05	1.7	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	5	6	06/11/09	0.16	0.192	0.171	6	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	06/07/10		F	CS	GENINORG	Perchlorate	ClO4	0.169	0.99	LANL Int BG LVL	0.05	1.7	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	9	9	07/21/05	0.317	0.381	0.35	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	06/02/10		F	CS	GENINORG	Perchlorate	ClO4	0.381	1.09	LANL Int BG LVL	0.05	3.8	0.05	ug/L	1				SW-846:6850	GELC	
C5	14	15	09/22/00	0.409	0.849	0.566	15	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	06/02/10		F	CS	GENINORG	Fluoride	F(-1)	0.518	0.92	LANL Int BG LVL	0.23	1.1	0.033	mg/L	1				EPA:300.0	GELC	
C5	4	4	04/21/09	45.7	400	86.2	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		F	CS	METALS	Manganese	Mn	48.4	0.56	LANL Int BG LVL	2	12.1	2	ug/L	1				SW-846:6010B	GELC	
C5	4	4	04/21/09	8.37	12.9	10.26	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		F	CS	METALS	Molybdenum	Mo	9.32	0.91	LANL Int BG LVL	2	2.3	0.1	ug/L	1				SW-846:6020	GELC	
C5	4	4	04/21/09	2.55	49.8	14.6	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		F	CS	METALS	Nickel	Ni	14.8	1.01	LANL Int BG LVL	1	7.4	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	4	4	04/21/09	13.4	909	31.3	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		F	CS	METALS	Zinc	Zn	13.4	0.43	LANL Int BG LVL	2	3.4	3.3	ug/L	1				SW-846:6010B	GELC	
C5	15	17	10/03/06	0.146	0.281	0.214	17	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	470.2	06/17/10		F	CS	GENINORG	Perchlorate	ClO4	0.249	1.16	LANL Int BG LVL	0.05	2.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	14	14	09/26/00	1.69	32	8.58	14	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1190.7	06/03/10		F	CS	METALS	Manganese	Mn	8.16	0.95	LANL Reg BG LVL	2.94	1.4	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	12	19	03/10/04	1.26	51.7	35.2	17	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10		UF	CS	GENINORG	Total Organic Carbon	TOC	2.21	0.06	LANL Reg BG LVL	0.33	3.4	0.33	mg/L	1				SW-846:9060	GELC	
C5	12	19	03/10/04	1.26	51.7	35.2	17	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10	FD	UF	CS	GENINORG	Total Organic Carbon	TOC	2.14	0.06	LANL Reg BG LVL	0.33	3.2	0.33	mg/L	1				SW-846:9060	GELC	
C5	14	18	03/10/04	113	253	181	18	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10	FD	F	CS	METALS	Barium	Ba	188	1.04	LANL Reg BG LVL	56.83	1.7	1	ug/L	1	E			SW-846:6010B	GELC	
C5	14	18	03/10/04	113	253	181	18	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10		F	CS	METALS	Barium	Ba	202	1.12	LANL Reg BG LVL	56.83	1.8	1	ug/L	1	E			SW-846:6010B	GELC	
C5	14	19	03/10/04	47.1	392	74.3	19	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10		F	CS	METALS	Manganese	Mn	78.4	1.06	LANL Reg BG LVL	2.94	13.3	2	ug/L	1				SW-846:6010B	GELC	
C5	14	19	03/10/04	47.1	392	74.3	19	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	06/01/10	FD	F	CS	METALS	Manganese	Mn	69.3	0.93	LANL Reg BG LVL	2.94	11.8	2	ug/L	1				SW-846:6010B	GELC	
C5	11	17	12/14/07	27.2	103	42.8	17	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-32	867.5	06/07/10		F	CS	METALS	Zinc	Zn	42.3	0.99	LANL Reg BG LVL	3.89	5.4	3.3	ug/L	1				SW-846:6010B	GELC	
C6	8	9	08/30/05	34.3	137	70.3	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCO-2	1.5	06/02/10		F	CS	GENINORG	Chloride	Cl(-1)	137	1.95	NM GW STD	250	1.1	1.3	mg/L	20				EPA:300.0	GELC	road salt
CA	16	27	06/15/05	0.245	0.245	0.245	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/11/10	FD	UF	CS	SVOA	Benzo(a)pyrene	50-32-8	0.245	1.00	EPA MCL	0.2	1.2	0.21	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	not in primary sample
CA	2	2	09/17/08	106	590	348	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	GENINORG	Chloride	Cl(-1)	590	1.70	NM GW STD	250	2.4	3.3	mg/L	50				EPA:300.0	GELC	road salt
CA	2	2	09/17/08	337	1740	1039	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	06/03/10		F	CS	GENINORG	Total Dissolved Solids	TDS	1740	1.67	NM GW STD	1000	1.7	2.4	mg/L	1				EPA:160.1	GELC	road salt
CA	4	4	04/21/09	0.802	8.64	4.721	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		F	CS	METALS	Antimony	Sb	8.64	1.83	EPA MCL	6	1.4	0.5	ug/L	1				SW-846:6020	GELC	largest groundwater values of last two years
CA	5	5	04/21/09	0.672	8.27	4.471	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	751.6	06/04/10		UF	CS	METALS	Antimony	Sb	8.27	1.85	EPA MCL	6	1.4	0.5	ug/L	1				SW-846:6020	GELC	largest groundwater values of last two years