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Periodic Monitoring Report for Los Alamos and Pueblo Watershed General Surveillance Monitoring Group, June 3–June 12, 2013

Los Alamos
NATIONAL LABORATORY

Prepared by the Environmental Programs Directorate

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the fiscal year 2013, third quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Los Alamos and Pueblo watershed portion of the General Surveillance monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2013 Monitoring Year, October 2012–September 2013, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from June 3 to June 12, 2013, and included the monitoring of groundwater wells and well screens, springs, and surface-water locations. This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of the current PME are also included in this report.

Water samples collected from various locations during this PME were analyzed for metals; volatile organic compounds; semivolatile organic compounds; high explosives; radionuclides, including low-level tritium; general inorganic chemicals, including perchlorate; stable isotopes; and field parameters (alkalinity, dissolved oxygen, pH, specific conductance, temperature, and turbidity).

No results from previous sampling of PME surface-water monitoring locations are reported in this PMR. No surface-water results from the current PME are reported in this PMR.

One groundwater result from previous sampling of PME monitoring locations reported in this PMR was above screening levels. Three results from groundwater samples collected during this PME were above screening levels.

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Acronyms and Abbreviations

amsl	above mean sea level
AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations (U.S.)
Consent Order	Compliance Order on Consent
DCG	Derived Concentration Guide (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
F	filtered
gpm	gallons per minute
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MCPA	2-methyl-4-chlorophenoxyacetic acid
MCPP	2-(4-chloro-2-methylphenoxy)propanoic acid
MDL	method detection limit
N	no (best value flag code)
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
PQL	practical quantitation limit
QC	quality control
RPF	Records Processing Facility
SOP	standard operating procedure
TA	technical area
UF	unfiltered
Y	yes (best value flag code)

1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of fiscal year 2013, third quarter, annual groundwater and surface-water monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Los Alamos and Pueblo watershed portion of the General Surveillance monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2013 Monitoring Year, October 2012–September 2013 (2013 IFGMP) (LANL 2012, 225493), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). This periodic monitoring event (PME) occurred from June 3 to June 12, 2013, and included sampling of groundwater wells and well screens, springs, and surface-water locations.

This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of a PME are also included in this report.

Sections VIII.A and VIII.C of the Consent Order identify New Mexico Water Quality Control Commission (NMWQCC) groundwater and surface-water standards, including alternative abatement standards and U.S. Environmental Protection Agency (EPA) drinking water maximum contaminant levels (MCLs), as cleanup levels for groundwater when corrective action is implemented. NMWQCC groundwater standards, MCLs, and EPA regional screening levels for tap water are used as screening levels for monitoring data and are provided in this report.

This report presents the following information:

- general background information on the monitoring group
- field-measurement monitoring results
- water-quality monitoring results
- screening analysis results (comparing these PME results with regulatory standards and results from previous reports)
- a summary based on the data and the screening analysis

Information on radioactive materials and radionuclides, including the results of sampling and analysis of radioactive constituents, is voluntarily provided to the New Mexico Environment Department (NMED) in accordance with U.S. Department of Energy (DOE) policy.

1.1 Background

Most of the monitoring wells discussed in the 2013 IFGMP (LANL 2012, 225493) are assigned to area-specific monitoring groups related to project areas that may be located in more than one watershed. Locations that are not included within one of these six area-specific monitoring groups are assigned to the General Surveillance monitoring group. This PMR presents results from the Los Alamos and Pueblo watershed portion of the General Surveillance monitoring group.

Other wells in Los Alamos Canyon are assigned to the Technical Area 21 (TA-21) monitoring group. The TA-21 monitoring group is located in and around TA-21 and is primarily located in upper Los Alamos Canyon. TA-21 is located on the mesa north of Los Alamos Canyon, which is joined by DP Canyon, east of TA-21. TA-21 consists of two past operational areas, DP West and DP East, both of which produced

liquid and solid radioactive wastes. The operations at DP West included plutonium processing, while the operations at DP East included the production of weapons initiators and tritium research.

From 1952 to 1986, a liquid-waste treatment plant discharged effluent containing radionuclides from the former plutonium-processing facility at TA-21 into DP Canyon. Primary sources of contaminants in the vicinity of the TA-21 monitoring group include the effluent outfall [Solid Waste Management Unit 21-011(k)], the adsorption beds and disposal shafts at Material Disposal Area T, DP West, and waste lines and sumps. Other potential sources include DP East and a diesel spill. The monitoring objectives for the TA-21 monitoring group are based in part on the results and conclusions presented in the Los Alamos and Pueblo Canyons Investigation Report (LANL 2004, 087390) as well as on the NMED-approved Los Alamos and Pueblo Canyons Groundwater Monitoring Well Network Evaluation and Recommendations, Revision 1 (LANL 2008, 101330).

Los Alamos Canyon received releases of radioactive effluents during the earliest Manhattan Project operations at TA-01 (1942–1945) and until 1993 from nuclear reactors at TA-02. Los Alamos Canyon also received radionuclides and metals in discharges from the sanitary sewage lagoons and cooling towers at the Los Alamos Neutron Science Center at TA-53. Except for strontium-90, contaminant concentrations in shallow groundwater have decreased dramatically in recent decades.

Pueblo Canyon receives effluent from the new Los Alamos County Wastewater Treatment Plant (completed in 2007). Acid Canyon, a tributary, received radioactive industrial effluent from 1943 to 1964. Compared with past decades, little radioactivity is found in current groundwater samples.

2.0 SCOPE OF ACTIVITIES

The PME for the Los Alamos and Pueblo Watershed General Surveillance monitoring group was conducted pursuant to the 2013 IFGMP (LANL 2012, 225493).

Table 2.0-1 provides the location name, sample collection date, screened interval, top and bottom screen depths, casing volume, purge volume, and purge rate for each of the locations scheduled to be monitored. These locations are shown in Figure 2.0-1. Some locations on this map may not have been sampled.

3.0 MONITORING RESULTS

3.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with the PME are documented in the 2013 IFGMP (LANL 2012, 225493).

3.2 Field Parameter Results

Appendix A contains the field parameter results for this PME and the four previous PMEs.

3.3 Groundwater Elevations and Base-Flow Observations

The periodic monitoring water-level data for the previous 2 yr are presented in Appendix B (on CD included with this document). For wells equipped with transducers, the reported water level is the water-level measurement taken earliest on the day of sampling. All manual measurements were recorded immediately before sampling. The groundwater-elevation measurements are shown graphically on Plate 1. Similarly, base-flow measurements are shown graphically in Figure 3.3-1.

3.4 Deviations from Planned Scope

Table 3.4-1 describes the fieldwork deviations from the planned scope of the PME. Table 3.4-2 presents a list of analytes for which the practical quantitation limits (PQLs) are greater than screening levels.

4.0 ANALYTICAL DATA RESULTS

4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of the PME are documented in the 2013 IFGMP (LANL 2012, 225493). Purge water is managed and characterized in accordance with waste profile form 39268, a copy of which was included in Appendix F of a previous PMR (LANL 2008, 103737), and ENV-RCRA-QP-010.3, Land Application of Groundwater. ENV-RCRA-QP-010.3 implements the NMED-approved Notice of Intent Decision Tree for land application of drilling, development, rehabilitation, and sampling of purge water.

All sampling, data reviews, and data package validations were conducted using standard operating procedures (SOPs) that are part of a comprehensive quality assurance program. The procedures are available at http://www.lanl.gov/community-environment/environmental-stewardship/plans-procedures.php. Completed chain-of-custody forms serve as analytical request forms and include the requester or owner, sample number, program code, date and time of sample collection, total number of bottles, list of analytes to be measured, bottle sizes, and preservatives for each required analysis.

The required analytical laboratory batch quality control (QC) is defined by the analytical method, the analytical statement of work, and generally accepted laboratory practices. The analytical laboratory assigns qualifiers to the data to indicate the quality of the analytical results. The laboratory batch QC is used in the secondary data validation process to evaluate the quality of individual analytical results, evaluate the appropriateness of the analytical methodologies, and measure the routine performance of the analytical laboratory.

In addition to batch QC performed by laboratories, the Laboratory submitted field QC samples to test the overall sampling and analytical laboratory process and to spot-check for analytical problems. These results are used in secondary validation along with information provided by the analytical laboratory.

After the Laboratory receives the analytical laboratory data packages, the packages receive secondary validation. For data collected before March 2012, validation was done by an independent contractor, Analytical Quality Associates, Inc. (AQA). After that date, validation is done by an automated process after data are loaded.

Data validation determines the quality of an analytical data set. Data validation focuses on specific quality assurance samples, such as matrix spikes, duplicates, surrogates, method blanks, laboratory control samples, and holding times, which indicate the accuracy and precision of the analyses. Based on the results, data qualifiers are applied to indicate data quality issues as well as the usability of results. This process also includes a description of the reasons for any failure to meet method, procedural, or contractual requirements and an evaluation of the impact of such failure on the overall data set.

AQA's reviews follow the guidelines set in the DOE model SOP for data validation, which includes reviewing the data quality and the documentation's correctness and completeness, verifying that holding times were met, and ensuring that analytical laboratory QC measures were applied, documented, and kept within contract requirements. As a result of secondary validation, a second set of qualifiers was assigned to the analytical results.

Auto validation (1) ensures that the electronic data deliverable contains all the required fields, (2) verifies that results of all QC checks and procedures are within valid criteria limits, and (3) applies specific qualifiers and reason codes per the EPA's National Functional Guidelines for data review as well as the Laboratory's SOPs. Once auto validation is complete, the data are uploaded into the Laboratory's database system and the public database (http://intellusnm.com/).

The Laboratory assigns detection status to the analytical result based on the analytical laboratory and secondary validation qualifiers. A detect flag of "N" indicates that, based on the qualifiers, the result was not detected.

4.2 Analytical Data

Appendix C presents the analytical data from this PME and from the four sampling events at these locations immediately before the PME. The analytical laboratory reports (including chain-of-custody forms and data validation forms) are provided in Appendix F (on CD included with this document).

Appendix C contains all data collected during the PME (i.e., all data that have been independently reviewed for conformance with Laboratory requirements) with the following constraints.

- All data
  - Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered unusable but are still reported.
  - Analytical laboratory QC results, including matrix spike and matrix spike duplicates, and field blanks, trip blanks, and equipment blanks are not included in the data set.
  - Field duplicates, reanalyses, and results from different analytical methods are reported.
- Radionuclides
  - Only cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
  - Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.
  - Otherwise, all results are reported at all locations.
- Nonradionuclides
  - All detected results are reported.

Multiple analyses of a sample, including dilutions and reanalyses, create redundant results. These multiple results have the same sample ID, analytical laboratory code, and analytical method. The analytical and validation information is used to designate the preferred result, which is marked with a best value flag of "Y" (yes). The redundant values of lower quality are assigned a best value flag of "N" (no). In cases where a reanalysis gives a significantly different result than an earlier value, the original result may be rejected and assigned a best value flag of N, and the reanalysis result may be marked with a best value flag of Y. The best value flag is included in Appendix C.

Data for PMRs are evaluated using the following screening process. The sources of screening levels with which the results are compared are listed in Table 4.2-1.

- The base-flow monitoring locations are assigned to one of two screening categories—perennial or ephemeral (Table 4.2-2). Along with a hardness value, this category determines the screening levels used for data at each monitoring location. Hardness-dependent screening levels used to screen data at each base-flow monitoring location are determined using the geometric mean of hardness data (mg/L as calcium carbonate) collected from 2006 to 2010 at each location (Table 4.2-2). Hardness-dependent acute and chronic criteria were used for total aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.
- Surface-water and groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order.
- Other groundwater data are screened to Groundwater Cleanup Levels described in Section VIII.A.1 of the Consent Order; for an individual substance, the lesser of the EPA MCL or the NMWQCC groundwater standard is used.
- If an NMWQCC standard or an MCL has not been established for a specific substance for which toxicological information is published, the EPA Regional Screening Levels for Tap Water (formerly Region 6 Screening Levels for Tap Water) are used as the Groundwater Cleanup Level. These screening levels are for either a cancer- or noncancer-risk type. The Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels are for 10^{-6} excess cancer risk, so 10 times the EPA 10^{-6} screening levels are used for screening.
- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. EPA MCLs are applied to both filtered and unfiltered sample results.
- The analytical results for radioactivity are compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Guides (DCGs) for groundwater.

The results of data screening for this PMR are presented in Appendix D. This appendix shows all analytical results greater than half the lowest applicable screening levels. Results with a best value flag of N are included in Appendix D but not discussed in the text.

Table 4.2-3 provides groundwater analytical results (by hydrogeologic zone for a specific analytical suite) that are above screening levels. Multiple detections of a particular constituent at a location are counted as one result. For example, if aluminum is detected above a screening level in both a primary sample and a field duplicate, only the highest result is shown.

Graphs in Appendix E display concentration histories of analytes for locations where the analyte was above its screening level at least once during the three most recent PMEs. Concentrations of the analyte are plotted for a 3-yr period. If 3 yr of data are not available, then all available results for the analyte are plotted. When shown, the solid red lines depict applicable screening levels. Results with a best value flag of N are not included in Appendix E.

Figure 4.2-1 shows concentrations at all locations from the current PME for analytes that exceeded their screening level at more than one sampling location. For example, filtered perchlorate was above the screening level at more than one location, so all available values from the current PME are shown in addition to the screening-level exceedances, which are displayed in yellow boxes.

4.2.1 Surface Water (Base Flow)

No results from previous sampling of PME surface-water monitoring locations are reported in this PMR. No surface-water results from the current PME are reported in this PMR.

4.2.2 Groundwater

At intermediate Vine Tree Spring on San Ildefonso Pueblo land, the perchlorate concentrations of 5.38 µg/L from a December 12, 2012, sample and 5.48 µg/L from a sample collected for the current PME on June 11, 2013, were above the 4-µg/L Consent Order screening level (Table 4.2-3). Vine Tree Spring is a few feet from Basalt Spring, which has been monitored since the 1960s. Basalt Spring apparently dried up, and discharge moved to Vine Tree Spring where samples have been collected since 2011. Taken together, the perchlorate concentrations at Vine Tree Spring and Basalt Spring have been near or above the screening level since late 2008. Five measurements at Vine Tree Spring since August 2011 range from 4.86 µg/L to 5.58 µg/L.

For the current PME, the unfiltered strontium-90 result of 17 pCi/L at alluvial well LAO-3a was above the 8-pCi/L EPA MCL screening level. Other filtered and unfiltered strontium-90 results from this well since 1995 range from 14.7 pCi/L to 71.9 pCi/L; results also included a nondetect.

The perchlorate concentration of 4.81 µg/L in regional aquifer well R-4 was above the Consent Order screening level of 4 µg/L. Perchlorate concentrations measured at this well since 2003 range between 2.5 µg/L and 5.2 µg/L.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the Los Alamos and Pueblo Watershed General Surveillance monitoring group are proposed at this time.

5.0 SUMMARY AND INTERPRETATIONS

5.1 Monitoring Results

The field parameter monitoring results are presented in Appendix A.

5.2 Analytical Results

5.2.1 Surface Water (Base Flow)

No results from previous sampling of PME surface-water monitoring locations are reported in this PMR. No surface-water results from the current PME are reported in this PMR.

5.2.2 Groundwater

One groundwater result from previous sampling of PME monitoring locations reported in this PMR was above screening levels. Three results from groundwater samples collected during this PME were above screening levels (Table 4.2-3).

For results above screening levels, the types of contaminants detected and their concentrations are consistent with data reported from previous PMEs in this monitoring group.

5.3 Data Gaps

Table 3.4-1 summarizes the field deviations encountered during the PME. The table also provides a detailed account of sampling event deviations.

5.4 Remediation System Monitoring

Remediation system monitoring is not applicable to the Los Alamos and Pueblo Watershed General Surveillance monitoring group because no systems are installed in the monitoring group area.

6.0 REFERENCES

The following list includes all documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ER ID number. This information is also included in text citations. ER ID numbers are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau and the Directorate. The set was developed to ensure that the administrative authority has all material needed to review this document, and it is updated with every document submitted to the administrative authority. Documents previously submitted to the administrative authority are not included.

LANL (Los Alamos National Laboratory), April 2004. "Los Alamos and Pueblo Canyons Investigation Report," Los Alamos National Laboratory document LA-UR-04-2714, Los Alamos, New Mexico. (LANL 2004, 087390)

LANL (Los Alamos National Laboratory), February 2008. "Los Alamos and Pueblo Canyons Groundwater Monitoring Well Network Evaluation and Recommendations, Revision 1," Los Alamos National Laboratory document LA-UR-08-1105, Los Alamos, New Mexico. (LANL 2008, 101330)

LANL (Los Alamos National Laboratory), September 2008. "Periodic Monitoring Report for White Rock Watershed, April 23–April 30, 2008," Los Alamos National Laboratory document LA-UR-08-5847, Los Alamos, New Mexico. (LANL 2008, 103737)

LANL (Los Alamos National Laboratory), August 2012. "Interim Facility-Wide Groundwater Monitoring Plan for the 2013 Monitoring Year, October 2012–September 2013," Los Alamos National Laboratory document LA-UR-12-21331, Los Alamos, New Mexico. (LANL 2012, 225493)

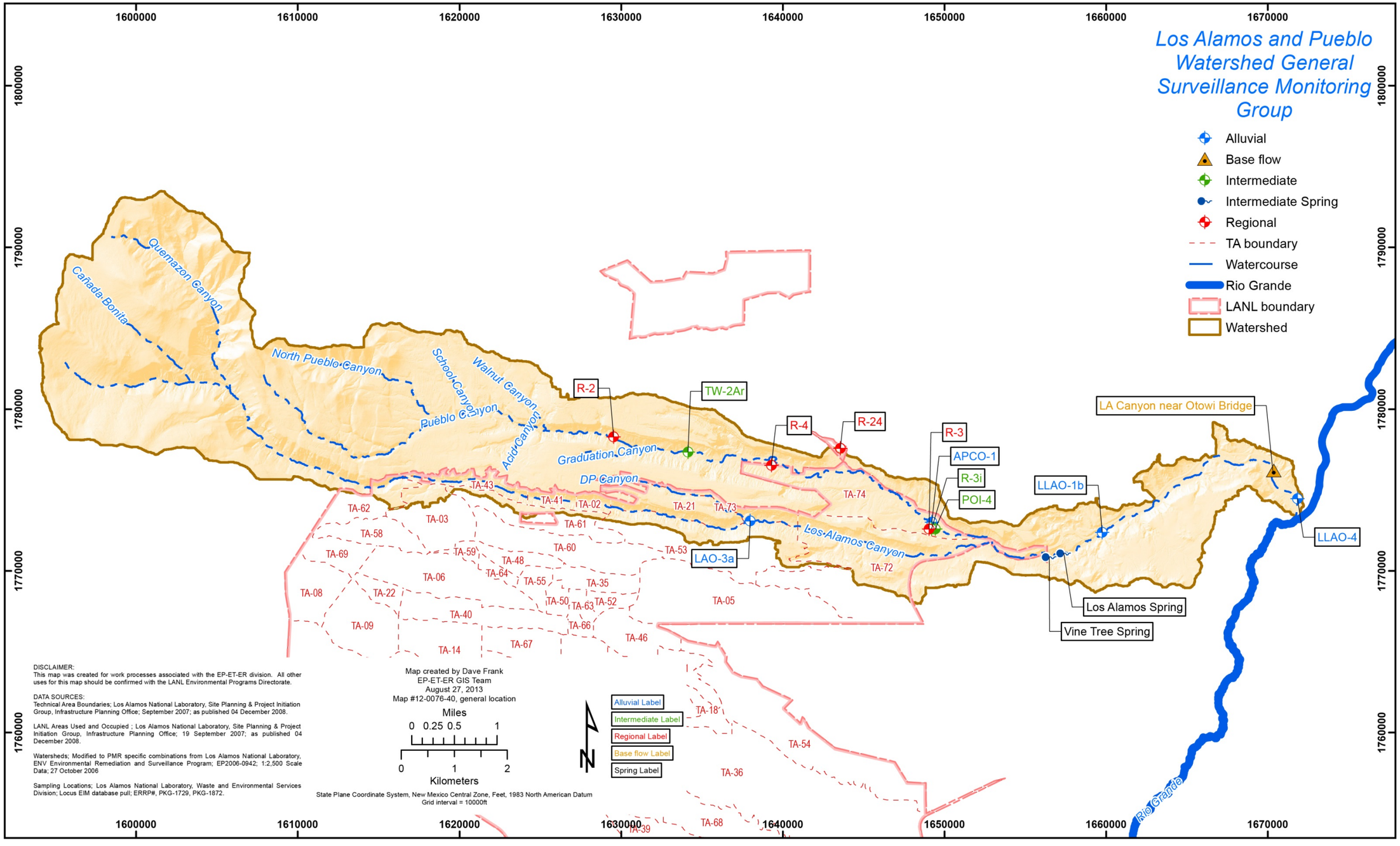


Figure 2.0-1 Locations monitored for this PME. Some locations on this map may not have been sampled (see Table 3.4-1).

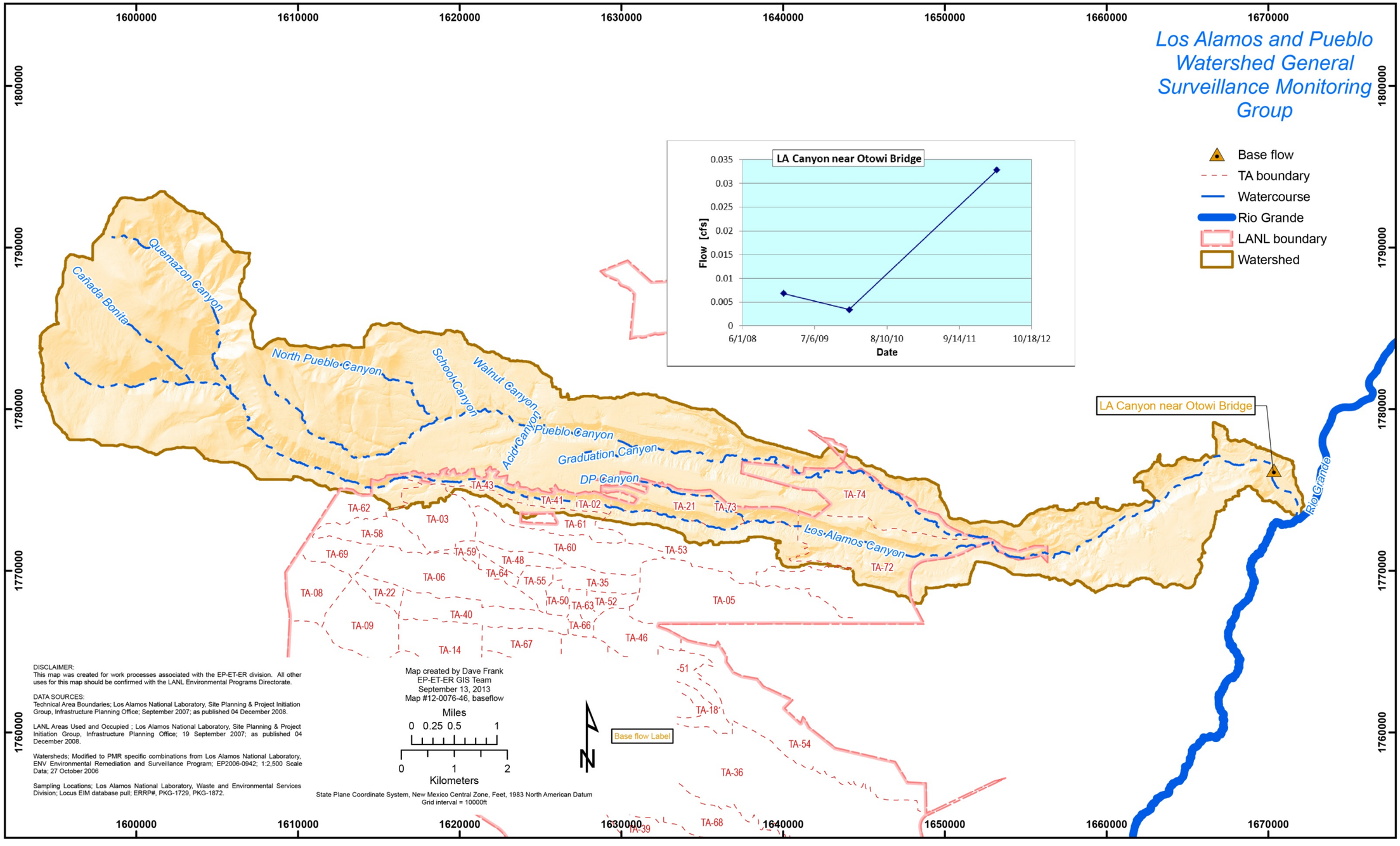


Figure 3.3-1 Base-flow measurements

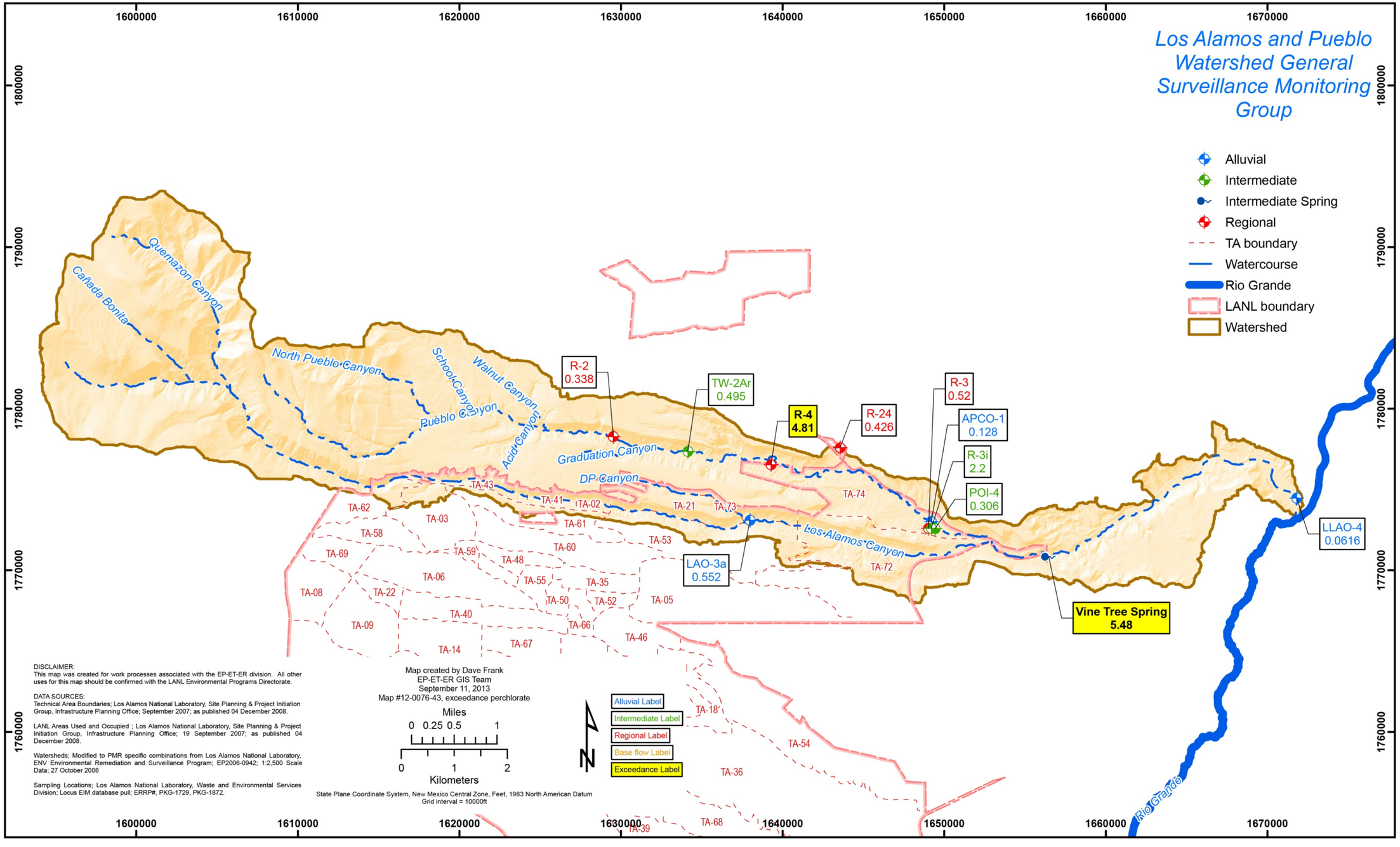


Figure 4.2-1 Monitoring group filtered perchlorate concentrations in µg/L. The Consent Order screening level is 4 µg/L.

Table 2.0-1
Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Locations and General Information

Location	Sample Collection Date	Screened Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge Rate (gpm[a])
Base Flow							
LA Canyon near Otowi Bridge	n/a[b]	n/a	n/a	n/a	n/a	n/a	n/a[c]
Alluvial							
APCO-1	06/05/13	10	4.7	14.7	1.9	3.75	0.11
LAO-3a	06/06/13	10	4.7	14.7	0.7	1.75	0.12
LLAO-1b	n/a	10	11.32	21.32	n/a	n/a	n/a
LLAO-4	06/12/13	10	5.24	15.24	6.7	6.7	0.21
Intermediate							
Los Alamos Spring	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Vine Tree Spring	06/11/13	n/a	n/a	n/a	n/a	n/a	21.54
POI-4	06/03/13	15	159	174	9.9	17	0.62
R-3i	06/05/13	4.8	215.2	220	3.9	24	1.0
TW-2Ar	06/06/13	10	102	112	11.80	35.5	0.4
Regional							
R-2	06/12/13	23.2	906.4	929.6	33.8	102	1.0
R-3	06/10/13	20.5	974.5	995	355.60	1185	5.9
R-4	06/10/13	23.1	792.9	816	73.7	238	3.4
R-24	06/04/13	23	825	848	116	385	4.3

[a] gpm = Gallons per minute.
[b] n/a = Not applicable.
[c] See Table.3.4-1 for explanation.

Table 3.4-1
Los Alamos and Pueblo Watershed General Surveillance Monitoring Group PME Observations and Deviations

Location	Deviation	Cause	Comment
LLAO-1b	No data are included in this report for this location.	The location was not sampled because it was dry.	This location will be sampled during the next scheduled PME.
Los Alamos Spring	No data are included in this report for this location.	The location was not sampled because it was dry.	This location will be sampled during the next scheduled PME.
LA Canyon near Otowi Bridge	No data are included in this report for this location.	The location was not sampled because it was dry.	This location will be sampled during the next scheduled PME.

Table 3.4-2
Analytes with PQLs above Screening Levels

Analyte or CAS[a] No.	Analyte Name	MDL[b]	PQL	Screening Level	Unit	Screening-Level Type
Herbicides						
94-74-6	MCPA[c]	12	53	18	µg/L	EPA Regional Tap
93-65-2	MCPP[d]	11	53	37	µg/L	EPA Regional Tap
Metals						
Be	Beryllium	1	5	4	µg/L	EPA MCL
Semivolatile Organic Compounds						
1912-24-9	Atrazine	3	10	3	µg/L	EPA MCL
103-33-3	Azobenzene	2	10	1.3	µg/L	EPA Regional Tap
92-87-5	Benzidine	3	10	0.00094	µg/L	EPA Regional Tap
56-55-3	Benzo(a)anthracene	0.2	1	0.29	µg/L	EPA Regional Tap
50-32-8	Benzo(a)pyrene	0.2	1	0.2	µg/L	EPA MCL
205-99-2	Benzo(b)fluoranthene	0.2	1	0.29	µg/L	EPA Regional Tap
111-44-4	Bis(2-chloroethyl)ether	2	10	0.12	µg/L	EPA Regional Tap
117-81-7	Bis(2-ethylhexyl)phthalate	2	10	6	µg/L	EPA MCL
106-47-8	Chloroaniline[4-]	2	10	3.4	µg/L	EPA Regional Tap
53-70-3	Dibenz(a,h)anthracene	0.2	1	0.029	µg/L	EPA Regional Tap
91-94-1	Dichlorobenzidine[3,3'-]	2	10	1.5	µg/L	EPA Regional Tap
534-52-1	Dinitro-2-methylphenol[4,6-]	3	10	2.9	µg/L	EPA Regional Tap
123-91-1	Dioxane[1,4-]	2	10	6.7	µg/L	EPA Regional Tap
118-74-1	Hexachlorobenzene	2	10	1	µg/L	EPA MCL
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	1	0.29	µg/L	EPA Regional Tap
55-18-5	Nitrosodiethylamine[N-]	2	10	0.0014	µg/L	EPA Regional Tap
62-75-9	Nitrosodimethylamine[N-]	2	10	0.0042	µg/L	EPA Regional Tap
924-16-3	Nitroso-di-n-butylamine[N-]	3	10	0.024	µg/L	EPA Regional Tap
621-64-7	Nitroso-di-n-propylamine[N-]	2	10	0.096	µg/L	EPA Regional Tap
930-55-2	Nitrosopyrrolidine[N-]	2	10	0.32	µg/L	EPA Regional Tap
108-60-1	Oxybis(1-chloropropane) [2,2'-]	2	10	3.2	µg/L	EPA Regional Tap
87-86-5	Pentachlorophenol	2	10	1	µg/L	EPA MCL
108-95-2	Phenol	1	10	5	µg/L	NMWQCC Groundwater Standard
Volatile Organic Compounds						
107-02-8	Acrolein	1.3	5	0.042	µg/L	EPA Regional Tap
107-13-1	Acrylonitrile	1	5	0.45	µg/L	EPA Regional Tap
126-99-8	Chloro-1,3-butadiene[2-]	0.3	1	0.16	µg/L	EPA Regional Tap
96-12-8	Dibromo-3-chloropropane[1,2-]	0.3	1	0.2	µg/L	EPA MCL
106-93-4	Dibromoethane[1,2-]	0.25	1	0.05	µg/L	EPA MCL
126-98-7	Methacrylonitrile	1	5	1	µg/L	EPA Regional Tap

Table 3.4-2 (continued)

Analyte or CAS[a] No.	Analyte Name	MDL[b]	PQL	Screening Level	Unit	Screening-Level Type
75-09-2	Methylene chloride	3	10	5	µg/L	EPA MCL
96-18-4	Trichloropropane[1,2,3-]	0.3	1	0.0072	µg/L	EPA Regional Tap

Note: This table is applicable to all samples reported in all PMRs.

[a] CAS = Chemical Abstracts Service.

[b] MDL = Method detection limit.

[c] MCPA = 2-Methyl-4-chlorophenoxyacetic acid.

[d] MCPP = 2-(4-Chloro-2-methylphenoxy)propanoic acid.

Table 4.2-1
Sources of Screening Levels for Groundwater and Surface Water at Los Alamos National Laboratory

Standard Source	Standard Type	Groundwater	Surface Water
DOE Order 5400.5	DOE BCGs	n/a[a]	X[b]
DOE Order 5400.5	DOE 100-mrem Public Dose DCG	X	n/a
DOE Order 5400.5	DOE 4-mrem Drinking Water DCG	X	n/a
40 CFR[c] 141	EPA Primary Drinking Water Standard	X	n/a
EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites	EPA Regional Screening Levels for Tap Water	X	n/a
20 NMAC.3.4	New Mexico Environmental Improvement Board Radiation Protection Standards	X	X
20 NMAC 6.2	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Acute	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Chronic	n/a	X
20 NMAC 6.4	NMWQCC Human Health Standard	n/a	X

[a] n/a = Not applicable.

[b] X = Applied to data screen for this report.

[c] CFR = Code of Federal Regulations.

Table 4.2-2
Base-Flow Location Type and Hardness Assignments Used to Select Screening Levels

Watershed	Location	Stream Type	Hardness (mg/L as $CaCO_3$)
Los Alamos	LA Canyon near Otowi Bridge	Ephemeral	100

Table 4.2-3
Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Groundwater Results above Screening Levels

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
Alluvial Groundwater							
LAO-3a	06/06/13	Strontium-90	UF[a]	17	pCi/L	8	EPA MCL
Intermediate Groundwater							
Vine Tree Spring	12/12/12	Perchlorate	F[b]	5.38	µg/L	4	Consent Order
Vine Tree Spring	06/11/13	Perchlorate	F	5.48	µg/L	4	Consent Order
Regional Groundwater							
R-4	06/10/13	Perchlorate	F	4.81	µg/L	4	Consent Order

[a] UF = Unfiltered.
[b] F = Filtered.

Appendix A

Field Parameter Results, Including Results from Previous Four Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
APCO-1	4.7	06/05/13	WG[a]	Dissolved Oxygen	1.85	mg/L	CAPU-13-34773
APCO-1	4.7	04/16/12	WG	Dissolved Oxygen	2.12	mg/L	CAPU-12-12561
APCO-1	4.7	03/16/11	WG	Dissolved Oxygen	0.73	mg/L	CAPU-11-5269
APCO-1	4.7	07/20/09	WG	Dissolved Oxygen	1.28	mg/L	CAPU-09-11228
APCO-1	4.7	01/09/09	WG	Dissolved Oxygen	1.13	mg/L	CAPU-09-1777
APCO-1	4.7	06/05/13	WG	Oxidation-Reduction Potential	142.8	mV	CAPU-13-34773
APCO-1	4.7	04/16/12	WG	Oxidation-Reduction Potential	66.4	mV	CAPU-12-12561
APCO-1	4.7	03/16/11	WG	Oxidation-Reduction Potential	60.4	mV	CAPU-11-5269
APCO-1	4.7	07/20/09	WG	Oxidation-Reduction Potential	-8.7	mV	CAPU-09-11228
APCO-1	4.7	01/09/09	WG	Oxidation-Reduction Potential	342	mV	CAPU-09-1777
APCO-1	4.7	06/05/13	WG	pH	6.27	SU[b]	CAPU-13-34773
APCO-1	4.7	04/16/12	WG	pH	6.89	SU	CAPU-12-12561
APCO-1	4.7	03/16/11	WG	pH	7.06	SU	CAPU-11-5269
APCO-1	4.7	07/20/09	WG	pH	6.42	SU	CAPU-09-11228
APCO-1	4.7	01/09/09	WG	pH	6.88	SU	CAPU-09-1777
APCO-1	4.7	06/05/13	WG	Specific Conductance	448	µS/cm	CAPU-13-34773
APCO-1	4.7	04/16/12	WG	Specific Conductance	513	µS/cm	CAPU-12-12561
APCO-1	4.7	03/16/11	WG	Specific Conductance	445	µS/cm	CAPU-11-5269
APCO-1	4.7	07/20/09	WG	Specific Conductance	438	µS/cm	CAPU-09-11228
APCO-1	4.7	01/09/09	WG	Specific Conductance	248	µS/cm	CAPU-09-1777
APCO-1	4.7	06/05/13	WG	Temperature	8.52	deg C	CAPU-13-34773
APCO-1	4.7	04/16/12	WG	Temperature	6.09	deg C	CAPU-12-12561
APCO-1	4.7	03/16/11	WG	Temperature	6.94	deg C	CAPU-11-5269
APCO-1	4.7	07/20/09	WG	Temperature	14.21	deg C	CAPU-09-11228
APCO-1	4.7	01/09/09	WG	Temperature	4.58	deg C	CAPU-09-1777
APCO-1	4.7	06/05/13	WG	Turbidity	26.2	NTU[c]	CAPU-13-34773
APCO-1	4.7	04/16/12	WG	Turbidity	2.02	NTU	CAPU-12-12561
APCO-1	4.7	03/16/11	WG	Turbidity	3.5	NTU	CAPU-11-5269

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
APCO-1	4.7	07/20/09	WG	Turbidity	3.28	NTU	CAPU-09-11228
APCO-1	4.7	01/09/09	WG	Turbidity	4.51	NTU	CAPU-09-1777
LAO-3a	4.7	06/06/13	WG	Dissolved Oxygen	8.22	mg/L	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Dissolved Oxygen	8.2	mg/L	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Dissolved Oxygen	8.2	mg/L	CALA-12-12533
LAO-3a	4.7	03/11/11	WG	Dissolved Oxygen	8.45	mg/L	CALA-11-5224
LAO-3a	4.7	07/15/09	WG	Dissolved Oxygen	7.57	mg/L	CALA-09-11091
LAO-3a	4.7	09/02/08	WG	Dissolved Oxygen	7.16	mg/L	CALA-08-13860
LAO-3a	4.7	06/06/13	WG	Oxidation-Reduction Potential	180.4	mV	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Oxidation-Reduction Potential	96.9	mV	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Oxidation-Reduction Potential	96.9	mV	CALA-12-12533
LAO-3a	4.7	03/11/11	WG	Oxidation-Reduction Potential	192	mV	CALA-11-5224
LAO-3a	4.7	07/15/09	WG	Oxidation-Reduction Potential	377.9	mV	CALA-09-11091
LAO-3a	4.7	09/02/08	WG	Oxidation-Reduction Potential	288	mV	CALA-08-13860
LAO-3a	4.7	06/06/13	WG	pH	6.84	SU	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	pH	7.05	SU	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	pH	7.05	SU	CALA-12-12533
LAO-3a	4.7	03/11/11	WG	pH	6.98	SU	CALA-11-5224
LAO-3a	4.7	07/15/09	WG	pH	6.53	SU	CALA-09-11091
LAO-3a	4.7	09/02/08	WG	pH	6.59	SU	CALA-08-13860
LAO-3a	4.7	06/06/13	WG	Specific Conductance	364	µS/cm	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Specific Conductance	669	µS/cm	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Specific Conductance	669	µS/cm	CALA-12-12533
LAO-3a	4.7	03/11/11	WG	Specific Conductance	312	µS/cm	CALA-11-5224
LAO-3a	4.7	07/15/09	WG	Specific Conductance	345	µS/cm	CALA-09-11091
LAO-3a	4.7	09/02/08	WG	Specific Conductance	2380	µS/cm	CALA-08-13860
LAO-3a	4.7	06/06/13	WG	Temperature	10.26	deg C	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Temperature	9.08	deg C	CALA-12-12526

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAO-3a	4.7	03/11/11	WG	Temperature	9.89	deg C	CALA-11-5224
LAO-3a	4.7	07/15/09	WG	Temperature	11.38	deg C	CALA-09-11091
LAO-3a	4.7	09/02/08	WG	Temperature	12.9	deg C	CALA-08-13860
LAO-3a	4.7	06/06/13	WG	Turbidity	1.7	NTU	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Turbidity	0.82	NTU	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Turbidity	0.82	NTU	CALA-12-12533
LAO-3a	4.7	03/11/11	WG	Turbidity	4.2	NTU	CALA-11-5224
LAO-3a	4.7	07/15/09	WG	Turbidity	2.05	NTU	CALA-09-11091
LAO-3a	4.7	09/02/08	WG	Turbidity	2	NTU	CALA-08-13860
LLAO-4	5.24	06/12/13	WG	Dissolved Oxygen	3.78	mg/L	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Dissolved Oxygen	3.91	mg/L	CALA-12-12549
LLAO-4	5.24	08/11/11	WG	Dissolved Oxygen	4.7	mg/L	CALA-11-25901
LLAO-4	5.24	06/21/11	WG	Dissolved Oxygen	4.2	mg/L	CALA-11-14674
LLAO-4	5.24	08/26/10	WG	Dissolved Oxygen	4.06	mg/L	CALA-10-25247
LLAO-4	5.24	06/12/13	WG	Oxidation-Reduction Potential	151.9	mV	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Oxidation-Reduction Potential	12.2	mV	CALA-12-12549
LLAO-4	5.24	08/11/11	WG	Oxidation-Reduction Potential	212.6	mV	CALA-11-25901
LLAO-4	5.24	06/21/11	WG	Oxidation-Reduction Potential	217.6	mV	CALA-11-14674
LLAO-4	5.24	08/26/10	WG	Oxidation-Reduction Potential	317	mV	CALA-10-25247
LLAO-4	5.24	06/12/13	WG	pH	6.93	SU	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	pH	6.93	SU	CALA-12-12549
LLAO-4	5.24	08/11/11	WG	pH	6.87	SU	CALA-11-25901
LLAO-4	5.24	06/21/11	WG	pH	6.89	SU	CALA-11-14674
LLAO-4	5.24	08/26/10	WG	pH	6.64	SU	CALA-10-25247
LLAO-4	5.24	06/12/13	WG	Specific Conductance	399	µS/cm	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Specific Conductance	464	µS/cm	CALA-12-12549
LLAO-4	5.24	08/11/11	WG	Specific Conductance	466	µS/cm	CALA-11-25901
LLAO-4	5.24	06/21/11	WG	Specific Conductance	468	µS/cm	CALA-11-14674

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LLAO-4	5.24	08/26/10	WG	Specific Conductance	460	µS/cm	CALA-10-25247
LLAO-4	5.24	06/12/13	WG	Temperature	14.03	deg C	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Temperature	11.87	deg C	CALA-12-12549
LLAO-4	5.24	08/11/11	WG	Temperature	15.92	deg C	CALA-11-25901
LLAO-4	5.24	06/21/11	WG	Temperature	14	deg C	CALA-11-14674
LLAO-4	5.24	08/26/10	WG	Temperature	15.89	deg C	CALA-10-25247
LLAO-4	5.24	06/12/13	WG	Turbidity	0.7	NTU	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Turbidity	0.24	NTU	CALA-12-12549
LLAO-4	5.24	08/11/11	WG	Turbidity	0.21	NTU	CALA-11-25901
LLAO-4	5.24	06/21/11	WG	Turbidity	0.17	NTU	CALA-11-14674
LLAO-4	5.24	08/26/10	WG	Turbidity	0.18	NTU	CALA-10-25247
POI-4	159	06/03/13	WG	Dissolved Oxygen	7.4	mg/L	CAPU-13-34782
POI-4	159	04/12/12	WG	Dissolved Oxygen	7.86	mg/L	CAPU-12-12562
POI-4	159	03/11/11	WG	Dissolved Oxygen	7.45	mg/L	CAPU-11-5282
POI-4	159	07/15/09	WG	Dissolved Oxygen	7.57	mg/L	CAPU-09-11240
POI-4	159	01/22/09	WG	Dissolved Oxygen	5.36	mg/L	CAPU-09-1779
POI-4	159	06/03/13	WG	Oxidation-Reduction Potential	130.1	mV	CAPU-13-34782
POI-4	159	04/12/12	WG	Oxidation-Reduction Potential	53.2	mV	CAPU-12-12562
POI-4	159	03/11/11	WG	Oxidation-Reduction Potential	222.5	mV	CAPU-11-5282
POI-4	159	07/15/09	WG	Oxidation-Reduction Potential	448.2	mV	CAPU-09-11240
POI-4	159	01/22/09	WG	Oxidation-Reduction Potential	242.3	mV	CAPU-09-1779
POI-4	159	06/03/13	WG	pH	6.96	SU	CAPU-13-34782
POI-4	159	04/12/12	WG	pH	7.06	SU	CAPU-12-12562
POI-4	159	03/11/11	WG	pH	7.03	SU	CAPU-11-5282
POI-4	159	07/15/09	WG	pH	6.66	SU	CAPU-09-11240
POI-4	159	01/22/09	WG	pH	6.82	SU	CAPU-09-1779
POI-4	159	06/03/13	WG	Specific Conductance	600	µS/cm	CAPU-13-34782
POI-4	159	04/12/12	WG	Specific Conductance	575	µS/cm	CAPU-12-12562

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
POI-4	159	03/11/11	WG	Specific Conductance	580	µS/cm	CAPU-11-5282
POI-4	159	07/15/09	WG	Specific Conductance	491	µS/cm	CAPU-09-11240
POI-4	159	01/22/09	WG	Specific Conductance	447	µS/cm	CAPU-09-1779
POI-4	159	06/03/13	WG	Temperature	11.65	deg C	CAPU-13-34782
POI-4	159	04/12/12	WG	Temperature	11.58	deg C	CAPU-12-12562
POI-4	159	03/11/11	WG	Temperature	11.73	deg C	CAPU-11-5282
POI-4	159	07/15/09	WG	Temperature	12.54	deg C	CAPU-09-11240
POI-4	159	01/22/09	WG	Temperature	11.34	deg C	CAPU-09-1779
POI-4	159	06/03/13	WG	Turbidity	9.9	NTU	CAPU-13-34782
POI-4	159	04/12/12	WG	Turbidity	0.5	NTU	CAPU-12-12562
POI-4	159	07/15/09	WG	Turbidity	0.71	NTU	CAPU-09-11240
POI-4	159	01/22/09	WG	Turbidity	0.48	NTU	CAPU-09-1779
POI-4	159	09/04/08	WG	Turbidity	10.2	NTU	CAPU-08-14782
R-2	906.4	06/12/13	WG	Dissolved Oxygen	5.17	mg/L	CAPU-13-34775
R-2	906.4	04/17/12	WG	Dissolved Oxygen	5.43	mg/L	CAPU-12-12563
R-2	906.4	03/09/11	WG	Dissolved Oxygen	5.36	mg/L	CAPU-11-5292
R-2	906.4	07/10/09	WG	Dissolved Oxygen	4.1	mg/L	CAPU-09-11257
R-2	906.4	01/14/09	WG	Dissolved Oxygen	5.59	mg/L	CAPU-09-1797
R-2	906.4	06/12/13	WG	Oxidation-Reduction Potential	115.7	mV	CAPU-13-34775
R-2	906.4	04/17/12	WG	Oxidation-Reduction Potential	190.4	mV	CAPU-12-12563
R-2	906.4	03/09/11	WG	Oxidation-Reduction Potential	111.1	mV	CAPU-11-5292
R-2	906.4	07/10/09	WG	Oxidation-Reduction Potential	409.5	mV	CAPU-09-11257
R-2	906.4	01/14/09	WG	Oxidation-Reduction Potential	148	mV	CAPU-09-1797
R-2	906.4	06/12/13	WG	pH	7.38	SU	CAPU-13-34775
R-2	906.4	04/17/12	WG	pH	7.43	SU	CAPU-12-12563
R-2	906.4	03/09/11	WG	pH	7.39	SU	CAPU-11-5292
R-2	906.4	07/10/09	WG	pH	7.05	SU	CAPU-09-11257
R-2	906.4	01/14/09	WG	pH	6.95	SU	CAPU-09-1797

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-2	906.4	06/12/13	WG	Specific Conductance	143	µS/cm	CAPU-13-34775
R-2	906.4	04/17/12	WG	Specific Conductance	144	µS/cm	CAPU-12-12563
R-2	906.4	03/09/11	WG	Specific Conductance	139	µS/cm	CAPU-11-5292
R-2	906.4	07/10/09	WG	Specific Conductance	151	µS/cm	CAPU-09-11257
R-2	906.4	01/14/09	WG	Specific Conductance	23.2	µS/cm	CAPU-09-1797
R-2	906.4	06/12/13	WG	Temperature	24.92	deg C	CAPU-13-34775
R-2	906.4	04/17/12	WG	Temperature	22.94	deg C	CAPU-12-12563
R-2	906.4	03/09/11	WG	Temperature	22.7	deg C	CAPU-11-5292
R-2	906.4	07/10/09	WG	Temperature	24.06	deg C	CAPU-09-11257
R-2	906.4	08/29/08	WG	Temperature	24.3	deg C	CAPU-08-14787
R-2	906.4	06/12/13	WG	Turbidity	0.94	NTU	CAPU-13-34775
R-2	906.4	04/17/12	WG	Turbidity	1.68	NTU	CAPU-12-12563
R-2	906.4	03/09/11	WG	Turbidity	1.4	NTU	CAPU-11-5292
R-2	906.4	07/10/09	WG	Turbidity	4.61	NTU	CAPU-09-11257
R-2	906.4	01/14/09	WG	Turbidity	16.3	NTU	CAPU-09-1797
R-24	825	06/04/13	WG	Dissolved Oxygen	4.61	mg/L	CAPU-13-34776
R-24	825	04/11/12	WG	Dissolved Oxygen	3.56	mg/L	CAPU-12-12564
R-24	825	03/11/11	WG	Dissolved Oxygen	3.45	mg/L	CAPU-11-5296
R-24	825	07/16/09	WG	Dissolved Oxygen	3.56	mg/L	CAPU-09-11269
R-24	825	01/15/09	WG	Dissolved Oxygen	2.73	mg/L	CAPU-09-1804
R-24	825	06/04/13	WG	Oxidation-Reduction Potential	177.9	mV	CAPU-13-34776
R-24	825	04/11/12	WG	Oxidation-Reduction Potential	11.1	mV	CAPU-12-12564
R-24	825	03/11/11	WG	Oxidation-Reduction Potential	159.1	mV	CAPU-11-5296
R-24	825	07/16/09	WG	Oxidation-Reduction Potential	366.9	mV	CAPU-09-11269
R-24	825	01/15/09	WG	Oxidation-Reduction Potential	439.3	mV	CAPU-09-1804
R-24	825	06/04/13	WG	pH	7.8	SU	CAPU-13-34776
R-24	825	04/11/12	WG	pH	7.9	SU	CAPU-12-12564
R-24	825	03/11/11	WG	pH	7.89	SU	CAPU-11-5296

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-24	825	07/16/09	WG	pH	7.79	SU	CAPU-09-11269
R-24	825	01/15/09	WG	pH	7.74	SU	CAPU-09-1804
R-24	825	06/04/13	WG	Specific Conductance	242	µS/cm	CAPU-13-34776
R-24	825	04/11/12	WG	Specific Conductance	251	µS/cm	CAPU-12-12564
R-24	825	03/11/11	WG	Specific Conductance	174	µS/cm	CAPU-11-5296
R-24	825	07/16/09	WG	Specific Conductance	286	µS/cm	CAPU-09-11269
R-24	825	01/15/09	WG	Specific Conductance	277	µS/cm	CAPU-09-1804
R-24	825	06/04/13	WG	Temperature	29.09	deg C	CAPU-13-34776
R-24	825	04/11/12	WG	Temperature	28.85	deg C	CAPU-12-12564
R-24	825	03/11/11	WG	Temperature	28.57	deg C	CAPU-11-5296
R-24	825	01/15/09	WG	Temperature	28.05	deg C	CAPU-09-1804
R-24	825	08/26/08	WG	Temperature	29.2	deg C	CAPU-08-14805
R-24	825	06/04/13	WG	Turbidity	0.6	NTU	CAPU-13-34776
R-24	825	04/11/12	WG	Turbidity	0.74	NTU	CAPU-12-12564
R-24	825	03/11/11	WG	Turbidity	0.9	NTU	CAPU-11-5296
R-24	825	07/16/09	WG	Turbidity	1.08	NTU	CAPU-09-11269
R-24	825	01/15/09	WG	Turbidity	0.78	NTU	CAPU-09-1804
R-3	974.5	06/10/13	WG	Dissolved Oxygen	4.49	mg/L	CAPU-13-34777
R-3	974.5	04/16/12	WG	Dissolved Oxygen	4.33	mg/L	CAPU-12-12565
R-3	974.5	08/24/11	WG	Dissolved Oxygen	3.72	mg/L	CAPU-11-26381
R-3	974.5	08/24/11	WG	Dissolved Oxygen	3.54	mg/L	CAPU-11-26370
R-3	974.5	08/24/11	WG	Dissolved Oxygen	3.69	mg/L	CAPU-11-26372
R-3	974.5	08/24/11	WG	Dissolved Oxygen	3.47	mg/L	CAPU-11-26368
R-3	974.5	06/13/11	WG	Dissolved Oxygen	3.47	mg/L	CAPU-11-14678
R-3	974.5	06/13/11	WG	Dissolved Oxygen	3.91	mg/L	CAPU-11-14680
R-3	974.5	06/13/11	WG	Dissolved Oxygen	3.91	mg/L	CAPU-11-13932
R-3	974.5	06/13/11	WG	Dissolved Oxygen	3.53	mg/L	CAPU-11-14676
R-3	974.5	03/08/11	WG	Dissolved Oxygen	4.12	mg/L	CAPU-11-5621

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-3	974.5	06/10/13	WG	Oxidation-Reduction Potential	82.1	mV	CAPU-13-34777
R-3	974.5	04/16/12	WG	Oxidation-Reduction Potential	1.7	mV	CAPU-12-12565
R-3	974.5	08/24/11	WG	Oxidation-Reduction Potential	151.3	mV	CAPU-11-26381
R-3	974.5	08/24/11	WG	Oxidation-Reduction Potential	154	mV	CAPU-11-26370
R-3	974.5	08/24/11	WG	Oxidation-Reduction Potential	151.7	mV	CAPU-11-26372
R-3	974.5	08/24/11	WG	Oxidation-Reduction Potential	157	mV	CAPU-11-26368
R-3	974.5	06/13/11	WG	Oxidation-Reduction Potential	151.9	mV	CAPU-11-14678
R-3	974.5	06/13/11	WG	Oxidation-Reduction Potential	162.1	mV	CAPU-11-14680
R-3	974.5	06/13/11	WG	Oxidation-Reduction Potential	162.1	mV	CAPU-11-13932
R-3	974.5	06/13/11	WG	Oxidation-Reduction Potential	147.7	mV	CAPU-11-14676
R-3	974.5	03/08/11	WG	Oxidation-Reduction Potential	147	mV	CAPU-11-5621
R-3	974.5	06/10/13	WG	pH	8.2	SU	CAPU-13-34777
R-3	974.5	04/16/12	WG	pH	8.31	SU	CAPU-12-12565
R-3	974.5	08/24/11	WG	pH	8.36	SU	CAPU-11-26381
R-3	974.5	08/24/11	WG	pH	8.39	SU	CAPU-11-26370
R-3	974.5	08/24/11	WG	pH	8.36	SU	CAPU-11-26372
R-3	974.5	08/24/11	WG	pH	8.43	SU	CAPU-11-26368
R-3	974.5	06/13/11	WG	pH	8.33	SU	CAPU-11-14678
R-3	974.5	06/13/11	WG	pH	8.32	SU	CAPU-11-14680
R-3	974.5	06/13/11	WG	pH	8.32	SU	CAPU-11-13932
R-3	974.5	06/13/11	WG	pH	8.39	SU	CAPU-11-14676
R-3	974.5	03/08/11	WG	pH	8.33	SU	CAPU-11-5621
R-3	974.5	06/10/13	WG	Specific Conductance	187	µS/cm	CAPU-13-34777
R-3	974.5	04/16/12	WG	Specific Conductance	194	µS/cm	CAPU-12-12565
R-3	974.5	08/24/11	WG	Specific Conductance	184	µS/cm	CAPU-11-26381
R-3	974.5	08/24/11	WG	Specific Conductance	177	µS/cm	CAPU-11-26370
R-3	974.5	08/24/11	WG	Specific Conductance	175	µS/cm	CAPU-11-26372
R-3	974.5	08/24/11	WG	Specific Conductance	188	µS/cm	CAPU-11-26368

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-3	974.5	06/13/11	WG	Specific Conductance	168	µS/cm	CAPU-11-14678
R-3	974.5	06/13/11	WG	Specific Conductance	162	µS/cm	CAPU-11-14680
R-3	974.5	06/13/11	WG	Specific Conductance	162	µS/cm	CAPU-11-13932
R-3	974.5	06/13/11	WG	Specific Conductance	177	µS/cm	CAPU-11-14676
R-3	974.5	03/08/11	WG	Specific Conductance	151	µS/cm	CAPU-11-5621
R-3	974.5	06/10/13	WG	Temperature	25.5	deg C	CAPU-13-34777
R-3	974.5	04/16/12	WG	Temperature	24.22	deg C	CAPU-12-12565
R-3	974.5	08/24/11	WG	Temperature	25.76	deg C	CAPU-11-26381
R-3	974.5	08/24/11	WG	Temperature	25.56	deg C	CAPU-11-26370
R-3	974.5	08/24/11	WG	Temperature	25.8	deg C	CAPU-11-26372
R-3	974.5	08/24/11	WG	Temperature	25.14	deg C	CAPU-11-26368
R-3	974.5	06/13/11	WG	Temperature	26.06	deg C	CAPU-11-14678
R-3	974.5	06/13/11	WG	Temperature	26.5	deg C	CAPU-11-14680
R-3	974.5	06/13/11	WG	Temperature	26.5	deg C	CAPU-11-13932
R-3	974.5	06/13/11	WG	Temperature	25.46	deg C	CAPU-11-14676
R-3	974.5	03/08/11	WG	Temperature	24.75	deg C	CAPU-11-5621
R-3	974.5	06/10/13	WG	Turbidity	0.1	NTU	CAPU-13-34777
R-3	974.5	04/16/12	WG	Turbidity	0.34	NTU	CAPU-12-12565
R-3	974.5	08/24/11	WG	Turbidity	0.26	NTU	CAPU-11-26381
R-3	974.5	08/24/11	WG	Turbidity	0.52	NTU	CAPU-11-26370
R-3	974.5	08/24/11	WG	Turbidity	0.4	NTU	CAPU-11-26372
R-3	974.5	08/24/11	WG	Turbidity	0.31	NTU	CAPU-11-26368
R-3	974.5	06/13/11	WG	Turbidity	0.23	NTU	CAPU-11-14678
R-3	974.5	06/13/11	WG	Turbidity	0.4	NTU	CAPU-11-14680
R-3	974.5	06/13/11	WG	Turbidity	0.4	NTU	CAPU-11-13932
R-3	974.5	06/13/11	WG	Turbidity	0.32	NTU	CAPU-11-14676
R-3	974.5	03/08/11	WG	Turbidity	0.6	NTU	CAPU-11-5621
R-3i	215.2	06/05/13	WG	Dissolved Oxygen	8.48	mg/L	CAPU-13-34778

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-3i	215.2	04/13/12	WG	Dissolved Oxygen	9.16	mg/L	CAPU-12-12566
R-3i	215.2	03/22/11	WG	Dissolved Oxygen	7.86	mg/L	CAPU-11-5287
R-3i	215.2	07/22/09	WG	Dissolved Oxygen	7.81	mg/L	CAPU-09-11231
R-3i	215.2	01/20/09	WG	Dissolved Oxygen	7.18	mg/L	CAPU-09-1784
R-3i	215.2	06/05/13	WG	Oxidation-Reduction Potential	184.8	mV	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Oxidation-Reduction Potential	183.7	mV	CAPU-12-12566
R-3i	215.2	03/22/11	WG	Oxidation-Reduction Potential	227.5	mV	CAPU-11-5287
R-3i	215.2	07/22/09	WG	Oxidation-Reduction Potential	180.4	mV	CAPU-09-11231
R-3i	215.2	01/20/09	WG	Oxidation-Reduction Potential	338.5	mV	CAPU-09-1784
R-3i	215.2	06/05/13	WG	pH	7.41	SU	CAPU-13-34778
R-3i	215.2	04/13/12	WG	pH	7.48	SU	CAPU-12-12566
R-3i	215.2	03/22/11	WG	pH	7.43	SU	CAPU-11-5287
R-3i	215.2	07/22/09	WG	pH	7.3	SU	CAPU-09-11231
R-3i	215.2	01/20/09	WG	pH	7.27	SU	CAPU-09-1784
R-3i	215.2	06/05/13	WG	Specific Conductance	509	µS/cm	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Specific Conductance	536	µS/cm	CAPU-12-12566
R-3i	215.2	03/22/11	WG	Specific Conductance	466	µS/cm	CAPU-11-5287
R-3i	215.2	07/22/09	WG	Specific Conductance	449	µS/cm	CAPU-09-11231
R-3i	215.2	01/20/09	WG	Specific Conductance	388	µS/cm	CAPU-09-1784
R-3i	215.2	06/05/13	WG	Temperature	13.94	deg C	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Temperature	13.54	deg C	CAPU-12-12566
R-3i	215.2	03/22/11	WG	Temperature	13.49	deg C	CAPU-11-5287
R-3i	215.2	07/22/09	WG	Temperature	13.95	deg C	CAPU-09-11231
R-3i	215.2	01/20/09	WG	Temperature	13.6	deg C	CAPU-09-1784
R-3i	215.2	06/05/13	WG	Turbidity	6.8	NTU	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Turbidity	6.2	NTU	CAPU-12-12566
R-3i	215.2	03/22/11	WG	Turbidity	4.23	NTU	CAPU-11-5287
R-3i	215.2	07/22/09	WG	Turbidity	1.83	NTU	CAPU-09-11231

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-3i	215.2	01/20/09	WG	Turbidity	0.57	NTU	CAPU-09-1784
R-4	792.9	06/10/13	WG	Dissolved Oxygen	3.95	mg/L	CAPU-13-34779
R-4	792.9	04/13/12	WG	Dissolved Oxygen	4.96	mg/L	CAPU-12-12567
R-4	792.9	03/16/11	WG	Dissolved Oxygen	5.4	mg/L	CAPU-11-5298
R-4	792.9	07/16/09	WG	Dissolved Oxygen	4.96	mg/L	CAPU-09-11263
R-4	792.9	01/22/09	WG	Dissolved Oxygen	3.84	mg/L	CAPU-09-1799
R-4	792.9	06/10/13	WG	Oxidation-Reduction Potential	97.4	mV	CAPU-13-34779
R-4	792.9	04/13/12	WG	Oxidation-Reduction Potential	-2.4	mV	CAPU-12-12567
R-4	792.9	03/16/11	WG	Oxidation-Reduction Potential	103.9	mV	CAPU-11-5298
R-4	792.9	07/16/09	WG	Oxidation-Reduction Potential	439.3	mV	CAPU-09-11263
R-4	792.9	01/22/09	WG	Oxidation-Reduction Potential	339.1	mV	CAPU-09-1799
R-4	792.9	06/10/13	WG	pH	8.2	SU	CAPU-13-34779
R-4	792.9	04/13/12	WG	pH	7.98	SU	CAPU-12-12567
R-4	792.9	03/16/11	WG	pH	8.09	SU	CAPU-11-5298
R-4	792.9	07/16/09	WG	pH	7.76	SU	CAPU-09-11263
R-4	792.9	01/22/09	WG	pH	7.85	SU	CAPU-09-1799
R-4	792.9	06/10/13	WG	Specific Conductance	190	µS/cm	CAPU-13-34779
R-4	792.9	04/13/12	WG	Specific Conductance	190	µS/cm	CAPU-12-12567
R-4	792.9	03/16/11	WG	Specific Conductance	184	µS/cm	CAPU-11-5298
R-4	792.9	07/16/09	WG	Specific Conductance	187	µS/cm	CAPU-09-11263
R-4	792.9	01/22/09	WG	Specific Conductance	179	µS/cm	CAPU-09-1799
R-4	792.9	06/10/13	WG	Temperature	25.21	deg C	CAPU-13-34779
R-4	792.9	04/13/12	WG	Temperature	23.31	deg C	CAPU-12-12567
R-4	792.9	03/16/11	WG	Temperature	23.06	deg C	CAPU-11-5298
R-4	792.9	07/16/09	WG	Temperature	25.59	deg C	CAPU-09-11263
R-4	792.9	01/22/09	WG	Temperature	23.79	deg C	CAPU-09-1799
R-4	792.9	06/10/13	WG	Turbidity	0.1	NTU	CAPU-13-34779
R-4	792.9	04/13/12	WG	Turbidity	0.45	NTU	CAPU-12-12567

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-4	792.9	03/16/11	WG	Turbidity	0.2	NTU	CAPU-11-5298
R-4	792.9	07/16/09	WG	Turbidity	0.52	NTU	CAPU-09-11263
R-4	792.9	01/22/09	WG	Turbidity	0.38	NTU	CAPU-09-1799
TW-2Ar	102	06/06/13	WG	Dissolved Oxygen	8.18	mg/L	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Dissolved Oxygen	8.17	mg/L	CAPU-12-12568
TW-2Ar	102	08/29/11	WG	Dissolved Oxygen	8.61	mg/L	CAPU-11-26362
TW-2Ar	102	08/29/11	WG	Dissolved Oxygen	8.3	mg/L	CAPU-11-26364
TW-2Ar	102	08/29/11	WG	Dissolved Oxygen	8.57	mg/L	CAPU-11-26374
TW-2Ar	102	08/29/11	WG	Dissolved Oxygen	8.57	mg/L	CAPU-11-26366
TW-2Ar	102	06/20/11	WG	Dissolved Oxygen	8.25	mg/L	CAPU-11-13928
TW-2Ar	102	06/20/11	WG	Dissolved Oxygen	8.27	mg/L	CAPU-11-14686
TW-2Ar	102	06/20/11	WG	Dissolved Oxygen	8.58	mg/L	CAPU-11-14682
TW-2Ar	102	06/20/11	WG	Dissolved Oxygen	8.19	mg/L	CAPU-11-14684
TW-2Ar	102	03/14/11	WG	Dissolved Oxygen	8.41	mg/L	CAPU-11-5308
TW-2Ar	102	06/06/13	WG	Oxidation-Reduction Potential	128.6	mV	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Oxidation-Reduction Potential	64	mV	CAPU-12-12568
TW-2Ar	102	08/29/11	WG	Oxidation-Reduction Potential	84.5	mV	CAPU-11-26362
TW-2Ar	102	08/29/11	WG	Oxidation-Reduction Potential	94.4	mV	CAPU-11-26364
TW-2Ar	102	08/29/11	WG	Oxidation-Reduction Potential	116.1	mV	CAPU-11-26374
TW-2Ar	102	08/29/11	WG	Oxidation-Reduction Potential	116.6	mV	CAPU-11-26366
TW-2Ar	102	06/20/11	WG	Oxidation-Reduction Potential	58.9	mV	CAPU-11-13928
TW-2Ar	102	06/20/11	WG	Oxidation-Reduction Potential	55.8	mV	CAPU-11-14686
TW-2Ar	102	06/20/11	WG	Oxidation-Reduction Potential	-34.2	mV	CAPU-11-14682
TW-2Ar	102	06/20/11	WG	Oxidation-Reduction Potential	34.7	mV	CAPU-11-14684
TW-2Ar	102	03/14/11	WG	Oxidation-Reduction Potential	82	mV	CAPU-11-5308
TW-2Ar	102	06/06/13	WG	pH	6.69	SU	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	pH	6.81	SU	CAPU-12-12568
TW-2Ar	102	08/29/11	WG	pH	6.69	SU	CAPU-11-26362

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
TW-2Ar	102	08/29/11	WG	pH	6.74	SU	CAPU-11-26364
TW-2Ar	102	08/29/11	WG	pH	6.74	SU	CAPU-11-26374
TW-2Ar	102	08/29/11	WG	pH	6.74	SU	CAPU-11-26366
TW-2Ar	102	06/20/11	WG	pH	6.95	SU	CAPU-11-13928
TW-2Ar	102	06/20/11	WG	pH	6.91	SU	CAPU-11-14686
TW-2Ar	102	06/20/11	WG	pH	6.93	SU	CAPU-11-14682
TW-2Ar	102	06/20/11	WG	pH	7.08	SU	CAPU-11-14684
TW-2Ar	102	03/14/11	WG	pH	6.83	SU	CAPU-11-5308
TW-2Ar	102	06/06/13	WG	Specific Conductance	385	µS/cm	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Specific Conductance	385	µS/cm	CAPU-12-12568
TW-2Ar	102	08/29/11	WG	Specific Conductance	385	µS/cm	CAPU-11-26362
TW-2Ar	102	08/29/11	WG	Specific Conductance	386	µS/cm	CAPU-11-26364
TW-2Ar	102	08/29/11	WG	Specific Conductance	384	µS/cm	CAPU-11-26374
TW-2Ar	102	08/29/11	WG	Specific Conductance	384	µS/cm	CAPU-11-26366
TW-2Ar	102	06/20/11	WG	Specific Conductance	392	µS/cm	CAPU-11-13928
TW-2Ar	102	06/20/11	WG	Specific Conductance	392	µS/cm	CAPU-11-14686
TW-2Ar	102	06/20/11	WG	Specific Conductance	380	µS/cm	CAPU-11-14682
TW-2Ar	102	06/20/11	WG	Specific Conductance	393	µS/cm	CAPU-11-14684
TW-2Ar	102	03/14/11	WG	Specific Conductance	387	µS/cm	CAPU-11-5308
TW-2Ar	102	06/06/13	WG	Temperature	14.8	deg C	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Temperature	13.6	deg C	CAPU-12-12568
TW-2Ar	102	08/29/11	WG	Temperature	14.29	deg C	CAPU-11-26362
TW-2Ar	102	08/29/11	WG	Temperature	15.39	deg C	CAPU-11-26364
TW-2Ar	102	08/29/11	WG	Temperature	14.56	deg C	CAPU-11-26374
TW-2Ar	102	08/29/11	WG	Temperature	14.53	deg C	CAPU-11-26366
TW-2Ar	102	06/20/11	WG	Temperature	14.06	deg C	CAPU-11-13928
TW-2Ar	102	06/20/11	WG	Temperature	14.16	deg C	CAPU-11-14686
TW-2Ar	102	06/20/11	WG	Temperature	13.38	deg C	CAPU-11-14682

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
TW-2Ar	102	06/20/11	WG	Temperature	14.46	deg C	CAPU-11-14684
TW-2Ar	102	03/14/11	WG	Temperature	13.4	deg C	CAPU-11-5308
TW-2Ar	102	06/06/13	WG	Turbidity	0.6	NTU	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Turbidity	0.49	NTU	CAPU-12-12568
TW-2Ar	102	08/29/11	WG	Turbidity	0.72	NTU	CAPU-11-26362
TW-2Ar	102	08/29/11	WG	Turbidity	0.82	NTU	CAPU-11-26364
TW-2Ar	102	08/29/11	WG	Turbidity	1.19	NTU	CAPU-11-26374
TW-2Ar	102	08/29/11	WG	Turbidity	1.25	NTU	CAPU-11-26366
TW-2Ar	102	06/20/11	WG	Turbidity	0.41	NTU	CAPU-11-13928
TW-2Ar	102	06/20/11	WG	Turbidity	0.81	NTU	CAPU-11-14686
TW-2Ar	102	06/20/11	WG	Turbidity	1.33	NTU	CAPU-11-14682
TW-2Ar	102	06/20/11	WG	Turbidity	0.81	NTU	CAPU-11-14684
TW-2Ar	102	03/14/11	WG	Turbidity	0.2	NTU	CAPU-11-5308
Vine Tree Spring	—	06/11/13	WG	Dissolved Oxygen	6.99	mg/L	CALA-13-33427
Vine Tree Spring	—	12/12/12	WG	Dissolved Oxygen	7.54	mg/L	CALA-13-24549
Vine Tree Spring	—	04/10/12	WG	Dissolved Oxygen	6.75	mg/L	CALA-12-12546
Vine Tree Spring	—	12/12/11	WG	Dissolved Oxygen	7.38	mg/L	CAWR-12-1756
Vine Tree Spring	—	08/08/11	WG	Dissolved Oxygen	6.99	mg/L	CAWR-11-23212
Vine Tree Spring	—	06/11/13	WG	pH	7.71	SU	CALA-13-33427
Vine Tree Spring	—	12/12/12	WG	pH	7.16	SU	CALA-13-24549
Vine Tree Spring	—	04/10/12	WG	pH	7.16	SU	CALA-12-12546
Vine Tree Spring	—	12/12/11	WG	pH	7.63	SU	CAWR-12-1756
Vine Tree Spring	—	08/08/11	WG	pH	7.37	SU	CAWR-11-23212
Vine Tree Spring	—	06/11/13	WG	Specific Conductance	311	µS/cm	CALA-13-33427
Vine Tree Spring	—	12/12/12	WG	Specific Conductance	300	µS/cm	CALA-13-24549
Vine Tree Spring	—	04/10/12	WG	Specific Conductance	312	µS/cm	CALA-12-12546
Vine Tree Spring	—	12/12/11	WG	Specific Conductance	317	µS/cm	CAWR-12-1756
Vine Tree Spring	—	08/08/11	WG	Specific Conductance	166	µS/cm	CAWR-11-23212

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
Vine Tree Spring	—	06/11/13	WG	Temperature	14.2	deg C	CALA-13-33427
Vine Tree Spring	—	12/12/12	WG	Temperature	11.29	deg C	CALA-13-24549
Vine Tree Spring	—	04/10/12	WG	Temperature	14.1	deg C	CALA-12-12546
Vine Tree Spring	—	12/12/11	WG	Temperature	10.9	deg C	CAWR-12-1756
Vine Tree Spring	—	08/08/11	WG	Temperature	13.54	deg C	CAWR-11-23212
Vine Tree Spring	—	06/11/13	WG	Turbidity	0.7	NTU	CALA-13-33427
Vine Tree Spring	—	12/12/12	WG	Turbidity	0.59	NTU	CALA-13-24549
Vine Tree Spring	—	04/10/12	WG	Turbidity	1.03	NTU	CALA-12-12546
Vine Tree Spring	—	12/12/11	WG	Turbidity	0.65	NTU	CAWR-12-1756
Vine Tree Spring	—	08/08/11	WG	Turbidity	1.28	NTU	CAWR-11-23212

[a] WG = Groundwater.

[b] SU = Standard unit.

[c] NTU = Nephelometric turbidity unit.

Appendix B

Groundwater-Elevation Measurements
(on CD included with this document)

Appendix C

Analytical Chemistry Results, Including Results from Previous Four Monitoring Events if Available

The following pages provide lists of (1) acronyms, abbreviations, symbols, and various analytical codes; (2) analytical laboratory qualifier codes; and (3) secondary validation flag codes that may be used in Appendix C. Please note that these are comprehensive lists, and this periodic monitoring report may not include all of the terms in the lists.

Acronyms and Abbreviations

Acronym, Abbreviation, or Symbol	Description
Miscellaneous	
%	percent
%D	percent difference
%R	percent recovery
%RSD	percent relative standard deviation
<	Based on qualifiers, the result was a nondetection.
—	none
4,4'-DDD	4,4'-dichlorodiphenyldichloroethane
4,4'-DDT	4,4'-dichlorodiphenyltrichloroethane
BHC	benzene hexachloride
CB	chlorinated biphenyl
CCB	continuing calibration blank
CCV	continuing calibration verification
CLP	Control Laboratory Program
CRDL	contract-required detection limit
CRI	CDRL check standard
DCG	Derived Concentration Guide (DOE)
DDE	dichlorodiphenyldichloroethylene
DNX	dinitroso-RDX (or hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine)
DOE	Department of Energy (U.S.)
DQO	data quality objective
EPA	Environmental Protection Agency (U.S.)
GC	gas chromatography
GC/MS	gas chromatography/mass spectrometry
GFAA	graphite furnace atomic absorption
GFPC	gas-flow proportional counter
GW	groundwater
HH OO	Human Health—Organism Only (NMWQCC standard)
HMX	1,3,5,7-tetranitro-1,3,5,7-tetrazocine
HPLC	high-pressure liquid chromatography
ICAL	initial calibration
ICPAES	inductively coupled plasma atomic (optical) emission spectroscopy
ICV	initial calibration verification
IDL	instrument detection limit

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Miscellaneous (continued)	
IS	internal standard
LAL	lower acceptance limit
LANL	Los Alamos National Laboratory
LCS	laboratory control sample
LLEE	low-level electrolytic extraction
LOC	level of chlorination
LSC	liquid scintillation counting
Lvl	level
MCL	maximum contaminant level (EPA)
MDA	minimum detectable activity
MDC	minimum detectable concentration
MDL	method detection limit
MNX	mononitroso-RDX (or hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine)
MS	matrix spike
MSD	matrix spike duplicate
NM	NMWQCC
NMED	New Mexico Environmental Department
NMWQCC	New Mexico Water Quality Control Commission
OPR	ongoing precision recovery
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzo-p-dioxin
PCDF	polychlorinated dibenzofuran
PQL	practical quantitation limit
Prelim	preliminary
QC	quality control
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RF	response factor
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RRT	relative retention time
RT	retention time
Scr	screening
SDG	sample delivery group
SMO	Sample Management Office
SSC	suspended sediment concentration
SU	standard unit
TCDD	tetrachlorodibenzo-p-dioxin

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Miscellaneous (continued)	
TCDF	tetrachlorodibenzofuran
TDS	total dissolved solids
TPH-DRO	total petroleum hydrocarbons—diesel range organics
TNX	trinitroso-RDX (or hexahydro-1,3,5-trinitroso-1,3,5-triazine)
TPU	total propagated uncertainty
UAL	upper acceptance limit
Field Matrix Codes	
W	water
WG	groundwater
WM	snowmelt
WP	persistent flow
WS	base flow
WT	storm runoff
Field Prep Codes	
F	filtered
UF	unfiltered
Lab Sample Type Codes	
CS	client sample
DL	dilution
DUP	duplicate
INIT	initial
RE	reanalysis
REDL	reanalysis dilution
REDP	reanalysis duplicate
RI	reissue
TRP	triplicate
Field QC Type Codes	
EQB	equipment rinsate blank
FB	field blank
FD	field duplicate
FR	field rinsate
FS	field split
FTB	field trip blank
FTR	field triplicate
INB	equipment blank taken during installation and not associated with a sampling event
ITB	trip blank taken during installation and not associated with a sampling event
NA	not applicable
PEB	performance evaluation blank

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Field QC Type Codes (continued)	
PEK	performance evaluation known
REG	regular
RES	resample
SS	special sampling event, data unique
SS-EQB	equipment blank of special sampling event, data unique
SS-FB	field blank of special sampling event, data unique
SS-FD	field duplicate of special sampling event, data unique
SS-FTB	field trip blank of special sampling event, data unique
Analytical Suite Codes	
DIOX/FUR, Diox/Fur	dioxins and furans
DRO	diesel range organics
Geninorg, GENINORG, General Chemistry	general inorganics
GRO	gasoline range organics
HERB	herbicides
HEXP	high explosives
INORGANIC	inorganics
ISOTOPE, Isotope	isotope ratios
LCMS/MS	liquid chromatography mass spectrometry/mass spectrometry
METALS, Metals	metals
PEST/PCB, PESTPCB	pesticides and PCBs
RAD, Rad	radiochemistry
SVOC, SVOA	semivolatile organic compounds
VOC, VOA	volatile organic compounds
Detect Flag Codes	
N	no
Y	yes
Lab Codes	
ALTC	Alta Analytical Laboratory, Inc., San Diego, CA
ARSL	American Radiation Services, Inc.
CFA	Cape Fear Analytical, LLC, Wilmington, NC
C-INC	Isotope and Nuclear Chemistry Division (LANL)
COAST	Coastal Science Laboratories, Austin, TX
CST	Chemical Sciences and Technology Division (LANL)
EES6	Hydrology, Geochemistry, and Geology Group (LANL)
ESE	Environmental Sciences & Engineering, Inc., Gainesville, FL
FLD	measurement taken in field
GEL	General Engineering Laboratories, Inc.

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Lab Codes (continued)	
GELC	General Engineering Laboratories, Inc., Charleston, SC
GEO	Geochron Laboratories, Boston, MA
HENV	Health and Environmental Laboratory (Johnson Controls, Northern New Mexico)
HUFFMAN	Huffman Laboratories, Inc., Golden, CO
KA	KEMRON Environmental Services, Inc., Vienna, VA
LVLI	Lionville Laboratory, Inc., Philadelphia, PA
PARA	Paragon Analytics, Inc., Salt Lake City, UT
PEC	Pacific Ecorisk Laboratories, Fairfield, CA
QESL	Quanterra Environmental Services, St. Louis, MO
QST	QST Environmental, Newberry, FL
RECRAP	RECRA Labnet, Lionville, PA
RFWC	Roy F. Weston, Inc., West Chester, PA
SGSW	Paradigm Analytical Laboratories, Inc., Wilmington, NC
SILENS	Stable Isotope Laboratory, Woods Hole, MA
STL2, STR	Severn Trent Laboratories, Inc., Richland, WA (historical)
STLA	Severn Trent Laboratories, Inc., Los Angeles, CA
STSL	Severn Trent Laboratories, Inc., St. Louis, MO
SwRI	Southwest Research Institute, San Antonio, TX
UAZ	University of Arizona, Tucson
UIL	University of Illinois, Urbana-Champaign
UMTL	University of Miami Tritium Lab

Analytical Laboratory Qualifier Codes

Code	Description
*	(Inorganic)—Duplicate analysis (relative percent difference [RPD]) not within control limits.
B	(Organic) —Analyte was present in the blank and the sample. (Inorganic) —Reported value was obtained from a reading that was less than the contract-required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).
BJ	See B code and see J code.
BJP	See B code, see J code, and see P code.
BPX	(B) (Organic)—This analyte was detected in the associated laboratory method blank and the sample. (B) (Inorganic)—The result for this analyte was greater than the IDL but less than the CRDL. (P) (Pesticides/PCBs)—The quantitative results for this analyte between the primary and secondary gas chromatography (GC) columns were greater than 25% difference. (P) (SW-846 EPA Method 8310, High-Pressure Liquid Chromatography, [HPLC] Results)—The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic)—The result for this analyte should be regarded as not detected.
D	The result for this analyte was reported from a dilution.
DJ	See D code and see J code.
DNA	Did not analyze because equipment was broken.
E	(Organic) Analyte exceeded the concentration range. (Inorganic) The serial dilution was exceeded.
E*	See E code and see * code.
EJ	See E code and see J code.
EJ*	See E code, see J code, and see * code.
EJN	(E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (inductively coupled plasma atomic [optical] emission spectroscopy [ICPAES])—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (graphite furnace atomic absorption [GFAA])—The result for this analyte failed one or more Control Laboratory Program (CLP) acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics)—The result for this analyte was greater than the method detection limit (MDL) but less than the practical quantitation limit (PQL). (N) (Organic)—The reported analyte is a tentatively identified compound (TIC). (N) (Inorganic)—The result for this analyte in the matrix spike (MS) sample was outside acceptance criteria.
EN	See E code and see N code.
EN*	(E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICPAES)—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA)—The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic)—The reported analyte is a TIC. (N) (Inorganic)—The result for this analyte in the MS sample was outside acceptance criteria. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
H	(Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded.

Analytical Laboratory Qualifier Codes (continued)

Code	Description
H*	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic)—The result for this analyte in the laboratory control sample analysis was outside acceptance criteria.
HJ	See H code and see J code.
HJ*	(H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
INS	(d15N)—The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value cannot be given to a blank because the blank does not have nitrate. This is different from most analytical methods, where a blank is run with the designator “nondetect” or “detected, but below detection limit.”
J	(Inorganic)—The associated numerical value is an estimated quantity. (Organic)—The associated numerical value is an estimated quantity.
J*	See J code and see * code.
JB	See J code and see B code
JN	See J code and see N code.
JN*	See J code, see N code, and see * code.
JP	See J code and see P code.
N	(Inorganic)—Spiked sample recovery was not within control limits.
N*	See N code and see * code.
N*E	See N code, see * code, and see E code.
NE	See N code and see E code.
P	Percent difference between the results on the two columns during the analysis differed by more than 40%.
PJ	See P code and see J code.
U	The material was analyzed for but was not detected above the level of the associated numeric value.
U*	See U code and see * code.
UD	See U code and see D code.
UE	See U code and see E code.
UE*	See U code, see E code, and see * code.
UEN	See U code, see E code, and see N code.
UH	See U code and see H code.

Analytical Laboratory Qualifier Codes (continued)

UH*	(U) (Organic/Inorganic)—The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria.
UI	(Rad) Gamma spectroscopy result should be regarded as an uncertain identification.
UN	EPA flag (Inorganic)—Compound was analyzed for but was not detected. Spiked sample recovery was not within control limits.
UN*	EPA flag (Inorganic)—See U code, see N code, and see * code.
UUI	(Rad) Gamma spectroscopy result should be regarded as an uncertain identification, and the analytical lab assigned these gamma spectroscopy results as not detected.
X	The analytical laboratory suspects the result is a nondetect despite positive quantification results.

Secondary Validation Flag Codes

Code	Description
A	The contractually required supporting documentation for this datum is absent.
I	The calculated sums are considered incomplete because of the lack of one or more congener results.
J	The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.
J-	The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential negative bias.
J+	The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.
JN-	Presumptive evidence of the presence of the material is at an estimated quantity with a suspected negative bias.
JN+	Presumptive evidence of the presence of the material is at an estimated quantity with a suspected positive bias.
N	There is presumptive evidence of the presence of the material.
NJ	(Organic) Analyte has been tentatively identified, and the associated numerical value is estimated based upon a 1:1 response factor to the nearest eluting internal standard.
NQ	No validation qualifier flag is associated with this result, and the analyte is classified as detected.
PM	Manual review of raw data is recommended to determine if the observed noncompliances with quality acceptance criteria adversely impact data use.
R	The reported sample result is classified as rejected because of serious noncompliances regarding quality control (QC) acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.
U	The analyte is classified as not detected.
UJ	The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual.

Table C-1 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.44	—	—	0.01	SU	Y	H	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.58	—	—	0.01	SU	Y	H	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.47	—	—	0.01	SU	Y	H	J-	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	—	—	0.01	SU	Y	H	J-	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.5	—	—	0.725	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.5	—	—	0.725	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.9	—	—	0.73	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.9	—	—	0.73	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0476	—	—	0.017	mg/L	Y	J	J+	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0375	—	—	0.017	mg/L	Y	J	U	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	49.9	—	—	1	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	51.7	—	—	1	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	54.1	—	—	1	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	50.1	—	—	1	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	37.9	—	—	15	µg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	38.3	—	—	15	µg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	52.6	—	—	15	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	33.7	—	—	15	µg/L	Y	J	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.146	—	—	0.067	mg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.19	—	—	0.067	mg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.136	—	—	0.066	mg/L	Y	J	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.155	—	—	0.066	mg/L	Y	J	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	30.4	—	—	0.05	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	28.4	—	—	0.05	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	29.2	—	—	0.05	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	29.9	—	—	0.05	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.9	—	—	0.067	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.5	—	—	0.067	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	19.1	—	—	0.13	mg/L	Y	—	J+	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.6	—	—	0.066	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.467	—	—	0.033	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.438	—	—	0.033	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.445	—	—	0.033	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.458	—	—	0.033	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	111	—	—	0.453	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	104	—	—	0.453	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	105	—	—	0.45	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	108	—	—	0.45	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.47	—	—	0.11	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.95	—	—	0.11	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.86	—	—	0.11	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.13	—	—	0.11	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	Y	0.079	—	—	0.067	µg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.066	µg/L	Y	U	U	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.066	µg/L	Y	U	U	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.066	µg/L	Y	U	UJ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.47	—	—	0.165	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC

Table C-1 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.34	—	—	0.165	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.08	—	—	0.17	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.51	—	—	0.17	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.64	—	—	0.5	µg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.17	—	—	0.5	µg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.51	—	—	0.5	µg/L	Y	J	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.73	—	—	0.5	µg/L	Y	J	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.78	—	—	0.17	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.53	—	—	0.17	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.35	—	—	0.05	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.72	—	—	0.05	mg/L	Y	—	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.38	—	—	0.5	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.25	—	—	0.5	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.86	—	—	0.5	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.58	—	—	0.5	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.23	—	—	0.05	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.43	—	—	0.05	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.76	—	—	0.05	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.59	—	—	0.05	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.72	—	—	1.5	µg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	2	—	—	1.5	µg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.59	—	—	1.5	µg/L	Y	J	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.9	—	—	0.053	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.3	—	—	0.053	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.1	—	—	0.053	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43.7	—	—	0.053	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.2	—	—	0.1	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.1	—	—	0.1	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.7	—	—	0.1	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.4	—	—	0.1	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	311	—	—	1	µS/cm	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	303	—	—	1	µS/cm	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	322	—	—	1	µS/cm	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	302	—	—	1	µS/cm	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	147	—	—	1	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	144	—	—	1	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	146	—	—	1	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	144	—	—	1	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.4	—	—	0.133	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.2	—	—	0.133	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.6	—	—	0.1	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.7	—	—	0.1	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	197	—	—	3.4	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	210	—	—	3.4	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	207	—	—	3.4	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	183	—	—	3.4	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.777	—	—	0.33	mg/L	Y	J	J	2013-409	CALA-13-24549	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.19	—	—	0.33	mg/L	Y	—	NQ	12-1209	CALA-12-12546	GELC

Table C-1 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.3	—	—	0.33	mg/L	Y	—	NQ	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.728	—	—	0.33	mg/L	Y	J	J	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.259	—	—	0.017	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.363	—	—	0.017	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.438	—	—	0.015	mg/L	Y	—	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.382	—	—	0.015	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.16	—	—	0.067	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.74	—	—	0.067	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.39	—	—	0.067	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.76	—	—	0.067	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.4	—	—	1	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.51	—	—	1	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.26	—	—	1	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.48	—	—	1	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.08	—	—	0.01	SU	Y	H	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.11	—	—	0.01	SU	Y	H	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.23	—	—	0.01	SU	Y	H	J-	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.81	—	—	0.01	SU	Y	H	J-	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.01	—	—	0.01	SU	Y	H	J-	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.1	—	—	0.725	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	154	—	—	0.725	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	114	—	—	0.73	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	150	—	—	0.73	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	96.1	—	—	0.73	mg/L	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	868	—	—	68	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	211	—	—	68	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	71.8	—	—	68	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	Y	92.9	—	—	68	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0253	0.00891	0.035	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0209	0.0077	0.0418	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00557	0.0037	0.026	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00739	0.012	0.039	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0176	0.01	0.029	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.137	—	—	0.017	mg/L	Y	—	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.089	—	—	0.017	mg/L	Y	—	U	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.046	—	—	0.015	mg/L	Y	J	J	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.192	—	—	0.016	mg/L	Y	—	J-	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.03	mg/L	Y	U	UJ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.1	—	—	1.7	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.84	—	—	1.7	µg/L	Y	J	J	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	5.32	—	—	1.7	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	12	—	—	1.5	µg/L	Y	—	J	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.9	—	—	1.5	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	3	—	—	1.5	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.9	—	—	1	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.4	—	—	1	µg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.8	—	—	1	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.3	—	—	1	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	12.4	—	—	1	µg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	12.7	—	—	1	µg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	278	—	—	15	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	317	—	—	15	µg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	245	—	—	15	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	319	—	—	15	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	274	—	—	10	µg/L	Y	—	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	278	—	—	10	µg/L	Y	—	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.136	—	—	0.067	mg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.126	—	—	0.066	mg/L	Y	J	J	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	UJ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.7	—	—	0.05	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.2	—	—	0.05	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.3	—	—	0.05	mg/L	Y	—	J-	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25	—	—	0.05	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24	—	—	0.03	mg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.2	—	—	0.03	mg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.36	1.74	6	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.48	1.19	3.95	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.54	1.5	4.3	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.14	1.1	3.6	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.34	1.3	4.1	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	54.5	—	—	0.67	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	49.7	—	—	0.67	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.6	—	—	0.66	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	40.3	—	—	0.33	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	45.8	—	—	0.66	mg/L	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.26	—	—	2	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.73	—	—	2.5	µg/L	Y	J	U	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.06	—	—	1	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.31	—	—	1	µg/L	Y	J	J	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.23	—	—	1	µg/L	Y	J	J	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	5.71	—	—	1	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	4.1	—	—	1	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.1	—	—	1	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.282	1.19	4.52	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.554	1.03	3.97	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.15	1.5	4.6	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.98	1.3	3.3	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0443	1.3	4.1	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	7.07	—	—	3	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.89	—	—	3	µg/L	Y	J	J	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	4.32	—	—	3	µg/L	Y	J	J	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	6.1	—	—	3	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	Y	6.2	—	—	3	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.426	—	—	0.033	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.417	—	—	0.033	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.425	—	—	0.033	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	N	0.691	—	—	0.033	mg/L	Y	—	U	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.56	—	—	0.033	mg/L	Y	—	J-	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.05	0.903	2.5	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.14	1.04	2.78	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.549	0.78	3	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0352	0.6	2.3	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.191	0.39	2	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	14.9	1.25	2.87	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	15.9	1.5	2.27	—	pCi/L	Y	—	NQ	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.59	1.2	2.7	—	pCi/L	Y	—	NQ	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	15.2	1.7	2.4	—	pCi/L	Y	—	NQ	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	14.1	1.7	2.7	—	pCi/L	Y	—	NQ	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.9	—	—	0.453	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	82.9	—	—	0.453	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.6	—	—	0.45	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.7	—	—	0.35	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	79.6	—	—	0.43	mg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.1	—	—	0.43	mg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	522	—	—	30	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	70	—	—	30	µg/L	Y	J	J	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	164	—	—	30	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	469	—	—	30	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	76.3	—	—	25	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	Y	82.2	—	—	25	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	0.691	—	—	0.5	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	1.1	—	—	0.5	µg/L	Y	J	J	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	0.626	—	—	0.5	µg/L	Y	J	J	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	N	2	—	—	0.5	µg/L	Y	U	U	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	0.6	—	—	0.5	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Lead	Pb	Y	0.6	—	—	0.5	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.31	—	—	0.11	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.48	—	—	0.11	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.09	—	—	0.11	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.68	—	—	0.085	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.8	—	—	0.085	mg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.81	—	—	0.085	mg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	15.4	—	—	2	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	9.26	—	—	2	µg/L	Y	J	J	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	957	—	—	2	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	631	—	—	2	µg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	628	—	—	2	µg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.43	—	—	0.165	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	4.04	—	—	0.165	µg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.45	—	—	0.17	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	13.5	—	—	0.1	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Molybdenum	Mo	Y	3.6	—	—	2	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Molybdenum	Mo	Y	3.8	—	—	2	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.81	2.96	11.1	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.87	2.37	8.29	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.258	2.9	9.7	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-8.93	9	29	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.7	10	34	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.53	—	—	0.5	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.36	—	—	0.5	µg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.04	—	—	0.5	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.4	—	—	0.5	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.1	—	—	0.5	µg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.1	—	—	0.5	µg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.54	—	—	0.085	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.287	—	—	0.085	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.05	—	—	0.01	mg/L	Y	U	U	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.58	—	—	0.25	mg/L	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.128	—	—	0.05	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	N	0.2	—	—	0.05	µg/L	Y	U	U	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.164	—	—	0.05	µg/L	Y	J	J	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	N	0.2	—	—	0.05	µg/L	Y	U	U	09-2690	CAPU-09-11229	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
APCO-1	4.7	01/09/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.207	—	—	0.05	µg/L	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00286	0.00639	0.0267	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0201	0.0118	0.0459	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00189	0.0033	0.023	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00537	0.004	0.029	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0117	0.0083	0.044	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.346	0.0317	0.0563	—	pCi/L	Y	—	J	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0226	0.0115	0.0355	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.0641	0.013	0.035	—	pCi/L	Y	—	NQ	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.093	0.014	0.035	—	pCi/L	Y	—	NQ	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.038	0.014	0.052	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	11.1	—	—	0.05	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	15.8	—	—	0.05	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	12.6	—	—	0.05	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	16.6	—	—	0.05	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	10.3	—	—	0.05	mg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	32.5	18.2	40.6	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	30.8	12.1	49.9	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.6	22	75	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.9	16	35	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19	15	52	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.1	—	—	0.053	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.2	—	—	0.053	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.1	—	—	0.053	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.2	—	—	0.053	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59	—	—	0.032	mg/L	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	61.4	—	—	0.1	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	70.6	—	—	0.1	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	59	—	—	0.1	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	72.6	—	—	0.1	mg/L	Y	*	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	62.5	—	—	0.045	mg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	63	—	—	0.045	mg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.51	1.32	4.49	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.14	1.23	3.9	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.698	1.7	5.6	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.65	0.95	3.3	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.256	1.4	4.6	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	447	—	—	1	µS/cm	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	503	—	—	1	µS/cm	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	442	—	—	1	µS/cm	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	492	—	—	1	µS/cm	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	447	—	—	1	µS/cm	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	74	—	—	1	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	104	—	—	1	µg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	76.8	—	—	1	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	126	—	—	1	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	95.6	—	—	1	µg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	96.7	—	—	1	µg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.457	0.157	0.484	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.15	0.125	0.492	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.462	0.16	0.5	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	0.512	0.17	0.48	—	pCi/L	Y	—	NQ	09-2689	CAPU-09-11228	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.148	0.15	0.49	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	47.5	—	—	1.33	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	26.4	—	—	0.133	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	22.9	—	—	0.1	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.7	—	—	0.1	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	22	—	—	0.1	mg/L	Y	—	J-	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	304	—	—	3.4	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	319	—	—	3.4	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	302	—	—	2.4	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	336	—	—	2.4	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	286	—	—	2.4	mg/L	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.476	—	—	0.033	mg/L	Y	—	J	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.379	—	—	0.035	mg/L	Y	—	NQ	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.102	—	—	0.033	mg/L	Y	—	J-	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.907	—	—	0.033	mg/L	Y	—	NQ	09-2690	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.452	—	—	0.029	mg/L	Y	—	J-	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.83	—	—	0.66	mg/L	Y	—	NQ	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	6.7	—	—	0.66	mg/L	Y	—	NQ	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.71	—	—	0.33	mg/L	Y	—	NQ	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	12.3	—	—	0.33	mg/L	Y	—	J	09-2690	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	6.9	—	—	0.33	mg/L	Y	—	NQ	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.26	—	—	0.017	mg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.03	—	—	0.017	mg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.45	—	—	0.015	mg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.36	—	—	0.015	mg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.84	—	—	0.024	mg/L	Y	—	NQ	09-596	CAPU-09-1776	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.096	—	—	0.067	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.285	—	—	0.067	µg/L	Y	—	U	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.183	—	—	0.067	µg/L	Y	J	J	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.117	—	—	0.05	µg/L	Y	J	U	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.075	—	—	0.05	µg/L	Y	J	U	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	N	0.078	—	—	0.05	µg/L	Y	J	U	08-526	CAPU-08-9777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.0867	0.0188	0.0615	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.035	0.0213	0.0705	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.0891	0.023	0.08	—	pCi/L	Y	—	NQ	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0603	0.021	0.18	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0421	0.024	0.17	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00346	0.0115	0.0478	—	pCi/L	Y	U	U	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0107	0.00947	0.0407	—	pCi/L	Y	U	U	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00927	0.0066	0.051	—	pCi/L	Y	U	U	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00326	0.0074	0.089	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0223	0.014	0.082	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0699	0.0145	0.0392	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34773	GELC
APCO-1	4.7	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.084	0.0156	0.0453	—	pCi/L	Y	—	NQ	12-1228	CAPU-12-12561	GELC
APCO-1	4.7	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.101	0.023	0.055	—	pCi/L	Y	—	NQ	11-1663	CAPU-11-5269	GELC
APCO-1	4.7	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0479	0.019	0.089	—	pCi/L	Y	U	U	09-2689	CAPU-09-11228	GELC
APCO-1	4.7	01/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	-0.00451	0.012	0.086	—	pCi/L	Y	U	U	09-596	CAPU-09-1777	GELC
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.1	—	—	1	µg/L	Y	—	NQ	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.9	—	—	1	µg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.4	—	—	1	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.06	—	—	1	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.9	—	—	1	µg/L	Y	J	J	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.9	—	—	1	µg/L	Y	J	J	08-526	CAPU-08-9777	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
APCO-1	4.7	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.77	—	—	3.3	µg/L	Y	J	J	2013-926	CAPU-13-34781	GELC
APCO-1	4.7	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	17.9	—	—	3.3	µg/L	Y	—	NQ	12-1228	CAPU-12-12569	GELC
APCO-1	4.7	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	17.2	—	—	3.3	µg/L	Y	—	NQ	11-1663	CAPU-11-5270	GELC
APCO-1	4.7	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.2	—	—	3.3	µg/L	Y	—	NQ	09-2690	CAPU-09-11229	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	16.9	—	—	2	µg/L	Y	—	NQ	08-526	CAPU-08-9775	GELC
APCO-1	4.7	01/16/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	16.3	—	—	2	µg/L	Y	—	NQ	08-526	CAPU-08-9777	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.48	—	—	0.01	SU	Y	H	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.09	—	—	0.01	SU	Y	H	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.16	—	—	0.01	SU	Y	H	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.27	—	—	0.01	SU	Y	H	J-	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.26	—	—	0.01	SU	Y	H	J-	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.8	—	—	0.01	SU	Y	H	J-	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.87	—	—	0.01	SU	Y	H	J-	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.87	—	—	0.01	SU	Y	H	J-	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.88	—	—	0.01	SU	Y	H	J-	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	130	—	—	0.725	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	111	—	—	0.725	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	126	—	—	0.725	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	108	—	—	0.73	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	107	—	—	0.73	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94.2	—	—	0.73	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	93.7	—	—	0.73	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.4	—	—	0.73	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.4	—	—	0.73	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	92.8	—	—	68	µg/L	Y	J	J	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	564	—	—	68	µg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	Y	541	—	—	68	µg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	73.9	—	—	68	µg/L	Y	J	J	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	Y	93.2	—	—	68	µg/L	Y	J	J	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0213	0.011	0.0463	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00273	0.00273	0.0492	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00718	0.00633	0.0432	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.016	0.0085	0.028	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0104	0.0055	0.025	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00669	0.004	0.041	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0047	0.0037	0.032	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0129	0.0075	0.03	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00378	0.005	0.029	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	5.2	—	—	1.7	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	2.27	—	—	1.7	µg/L	Y	J	J	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.99	—	—	1.5	µg/L	Y	J	J	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	4.75	—	—	1.5	µg/L	Y	J	J	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.8	—	—	1.5	µg/L	Y	J	J	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	2	—	—	1.5	µg/L	Y	J	J	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	51.5	—	—	1	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	93.2	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	94.4	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	43.1	—	—	1	µg/L	Y	—	J	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	42.6	—	—	1	µg/L	Y	—	J	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	66.3	—	—	1	µg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	66.6	—	—	1	µg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	65.6	—	—	1	µg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	63.3	—	—	1	µg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	55.3	—	—	15	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	49	—	—	15	µg/L	Y	J	J	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	48.9	—	—	15	µg/L	Y	J	J	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	46.9	—	—	15	µg/L	Y	J	J	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	46.2	—	—	15	µg/L	Y	J	J	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	33.7	—	—	15	µg/L	Y	J	J	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	31.5	—	—	15	µg/L	Y	J	J	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	33.5	—	—	10	µg/L	Y	J	J	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	31.7	—	—	10	µg/L	Y	J	J	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.3	—	—	0.067	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.551	—	—	0.067	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.56	—	—	0.067	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.561	—	—	0.066	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.555	—	—	0.066	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.818	—	—	0.066	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.816	—	—	0.066	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.227	—	—	0.067	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.215	—	—	0.067	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.1	—	—	0.05	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.1	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.7	—	—	0.05	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.5	—	—	0.05	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.9	—	—	0.05	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.6	—	—	0.05	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.3	—	—	0.03	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.7	—	—	0.03	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.46	1.8	6.79	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.3	1.51	5.61	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.411	1.48	5.36	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.41	1.5	4.7	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.26	1.1	4	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.41	1.4	4.3	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.73	1.3	4.1	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.838	1.4	4.9	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.35	1.6	5.6	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	14.8	—	—	0.335	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	110	—	—	0.67	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	114	—	—	0.67	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	13.6	—	—	0.066	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	13.5	—	—	0.066	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	57.1	—	—	0.33	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	58	—	—	0.33	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	61.1	—	—	0.66	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	61.7	—	—	0.66	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.42	—	—	2	µg/L	Y	J	J	2013-934	CALA-13-33429	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.03	—	—	2	µg/L	Y	J	J	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.28	—	—	2	µg/L	Y	J	J	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.56	—	—	2	µg/L	Y	J	J	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.81	—	—	2	µg/L	Y	J	J	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.32	—	—	2.5	µg/L	Y	J	J	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.96	—	—	2.5	µg/L	Y	J	J	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.1	—	—	1.5	µg/L	Y	J	J	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.2	—	—	1.5	µg/L	Y	J	J	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.479	1.98	6.6	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.819	1.37	5.34	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.21	1.32	4.58	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.66	1.4	5	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.292	1.3	4.2	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.732	1.5	5.1	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.803	1.3	3.9	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.921	1.4	4.2	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.12	1.5	5.4	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.798	—	—	0.033	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.628	—	—	0.033	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.631	—	—	0.033	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.953	—	—	0.033	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.961	—	—	0.033	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.655	—	—	0.033	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.646	—	—	0.033	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.675	—	—	0.033	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.683	—	—	0.033	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.781	0.665	2.39	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	3.09	1.21	2.97	—	pCi/L	Y	—	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.07	0.994	2.81	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.18	0.81	2.6	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.42	0.87	2.7	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.38	0.92	2.4	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0752	0.44	2.3	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	07/19/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.517	0.757	2.76	—	pCi/L	Y	U	U	190027	GU070700GA3L01	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	42.4	0.919	1.7	—	pCi/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	78.1	3.15	2.38	—	pCi/L	Y	—	NQ	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	70.5	2.97	2.52	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	33.7	3.5	2.9	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	33.3	3.5	2.9	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	46.9	4.5	2.3	—	pCi/L	Y	—	NQ	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	46.8	4.5	2.1	—	pCi/L	Y	—	NQ	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	07/19/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	46.2	4.22	2.22	—	pCi/L	Y	—	—	190027	GU070700GA3L01	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73	—	—	0.453	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	132	—	—	0.453	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	132	—	—	0.453	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.3	—	—	0.45	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.7	—	—	0.45	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.5	—	—	0.35	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.7	—	—	0.35	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.6	—	—	0.35	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.8	—	—	0.35	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	33.5	—	—	30	µg/L	Y	J	J	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	12-1180	CALA-12-12533	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	256	—	—	30	µg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	Y	244	—	—	30	µg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	48.4	—	—	30	µg/L	Y	J	U	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	N	36.8	—	—	30	µg/L	Y	J	U	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	128	—	—	25	µg/L	Y	—	U	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	N	113	—	—	25	µg/L	Y	—	U	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.9	—	—	0.11	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.92	—	—	0.11	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.95	—	—	0.11	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.43	—	—	0.11	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.41	—	—	0.11	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.77	—	—	0.085	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.55	—	—	0.085	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.57	—	—	0.085	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.49	—	—	0.085	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	225	—	—	0.165	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	181	—	—	0.165	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	182	—	—	0.165	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	240	—	—	0.17	µg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	244	—	—	0.17	µg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	170	—	—	0.1	µg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	177	—	—	0.1	µg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	235	—	—	0.5	µg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	219	—	—	0.5	µg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.81	3.46	10.9	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.09	3.28	10.9	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.834	3.13	10.9	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.75	2.8	9.3	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.6	2.4	7.7	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	24.5	15	44	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	40.6	14	45	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.18	12	35	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.47	11	34	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.846	—	—	0.017	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.76	—	—	0.085	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.76	—	—	0.085	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.78	—	—	0.05	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.785	—	—	0.05	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.0995	—	—	0.01	mg/L	Y	—	U	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.101	—	—	0.01	mg/L	Y	—	U	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.104	—	—	0.01	mg/L	Y	—	J	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.135	—	—	0.01	mg/L	Y	—	J	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.552	—	—	0.05	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.391	—	—	0.05	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.402	—	—	0.05	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.585	—	—	0.05	µg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.575	—	—	0.05	µg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.248	—	—	0.05	µg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.243	—	—	0.05	µg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.229	—	—	0.05	µg/L	Y	—	J	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.23	—	—	0.05	µg/L	Y	—	J	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00211	0.00365	0.0197	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00865	0.047	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0226	0.00795	0.0432	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00785	0.0048	0.024	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00658	0.0037	0.02	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00522	0.0045	0.042	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0042	0.0036	0.033	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00624	0.01	0.032	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00206	0.0021	0.031	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0105	0.00698	0.0415	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00274	0.00474	0.0398	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00251	0.00665	0.0366	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-1.87E-09	0.0073	0.037	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00329	0.0052	0.031	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00783	0.0078	0.051	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00629	0.007	0.041	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00832	0.0051	0.036	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00411	0.0058	0.035	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.18	—	—	0.05	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.33	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	8.37	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.95	—	—	0.05	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	5.89	—	—	0.05	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.1	—	—	0.05	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	7.02	—	—	0.05	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.73	—	—	0.05	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	6.63	—	—	0.05	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.2	20.2	75.7	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.2	17.8	57.7	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	0.808	18.4	64.3	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-9.27	17	60	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-19.2	17	56	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-28	19	59	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-5.43	24	72	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.5	19	65	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-25	17	52	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	2.51	—	—	1.5	µg/L	Y	J	J	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	µg/L	Y	U	U	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	µg/L	Y	U	U	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	µg/L	Y	U	U	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	µg/L	Y	U	U	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.1	—	—	0.053	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.1	—	—	0.053	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.2	—	—	0.053	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.7	—	—	0.053	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.1	—	—	0.053	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	50.4	—	—	0.053	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	50.5	—	—	0.053	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53	—	—	0.032	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.1	—	—	0.032	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	46.9	—	—	0.1	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	74.9	—	—	0.1	mg/L	Y	—	J-	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	75.4	—	—	0.1	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	40.6	—	—	0.1	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	39.9	—	—	0.1	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	50.4	—	—	0.1	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	47	—	—	0.1	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	43.1	—	—	0.045	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	42.5	—	—	0.045	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.25	1.54	6.33	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.107	1.49	5.53	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.14	1.47	5.13	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.29	1.5	4.7	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.877	1.1	4.1	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.18	1.4	4	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.482	1.3	4.1	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.135	1.3	4.3	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.19	1.5	4.2	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	381	—	—	1	µS/cm	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	658	—	—	1	µS/cm	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	65.5	—	—	1	µS/cm	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	304	—	—	1	µS/cm	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	301	—	—	1	µS/cm	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	414	—	—	1	µS/cm	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	415	—	—	1	µS/cm	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	416	—	—	1	µS/cm	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	416	—	—	1	µS/cm	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	126	—	—	1	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	240	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	240	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	99.6	—	—	1	µg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	98	—	—	1	µg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	152	—	—	1	µg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	145	—	—	1	µg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	147	—	—	1	µg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	142	—	—	1	µg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	17	0.568	0.488	—	pCi/L	Y	—	J	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	29.3	0.596	0.506	—	pCi/L	Y	—	NQ	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	Y	29	0.737	0.499	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	21	1.7	0.49	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	Y	14.7	1.2	0.49	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	20.8	1.7	0.4	—	pCi/L	Y	—	NQ	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	Y	21.8	1.8	0.45	—	pCi/L	Y	—	NQ	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	23.6	2	0.46	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	Y	23.3	2	0.4	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.8	—	—	0.665	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	26.7	—	—	0.133	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	26.7	—	—	0.133	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.3	—	—	0.1	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.4	—	—	0.1	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.7	—	—	0.1	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.6	—	—	0.1	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.29	—	—	0.1	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.3	—	—	0.1	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	256	—	—	3.4	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	367	—	—	3.4	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	369	—	—	3.4	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	208	—	—	2.4	mg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	208	—	—	2.4	mg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	263	—	—	2.4	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	269	—	—	2.4	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	264	—	—	2.4	mg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	260	—	—	2.4	mg/L	Y	—	NQ	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0836	—	—	0.033	mg/L	Y	J	J	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.103	—	—	0.035	mg/L	Y	—	J-	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0765	—	—	0.035	mg/L	Y	J	J	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.039	—	—	0.033	mg/L	Y	J	J-	11-1619	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	11-1619	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.07	—	—	0.033	mg/L	Y	J	J-	09-2651	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	09-2651	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.029	mg/L	Y	U	U	08-1825	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.029	mg/L	Y	U	U	08-1825	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.68	—	—	0.33	mg/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.33	—	—	0.33	mg/L	Y	—	NQ	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.42	—	—	0.33	mg/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.65	—	—	0.33	mg/L	Y	—	NQ	11-1619	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.64	—	—	0.33	mg/L	Y	—	NQ	11-1619	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.78	—	—	0.33	mg/L	Y	—	NQ	09-2651	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.8	—	—	0.33	mg/L	Y	—	NQ	09-2651	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.38	—	—	0.33	mg/L	Y	—	NQ	08-1825	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.19	—	—	0.33	mg/L	Y	—	NQ	08-1825	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.296	—	—	0.017	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.198	—	—	0.017	mg/L	Y	—	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.166	—	—	0.017	mg/L	Y	—	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.168	—	—	0.015	mg/L	Y	—	J	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.176	—	—	0.015	mg/L	Y	—	J	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.178	—	—	0.015	mg/L	Y	—	NQ	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.14	—	—	0.015	mg/L	Y	—	NQ	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.137	—	—	0.024	mg/L	Y	—	U	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.166	—	—	0.024	mg/L	Y	—	U	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.22	—	—	0.067	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.16	—	—	0.067	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.16	—	—	0.067	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.538	—	—	0.067	µg/L	Y	—	NQ	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.551	—	—	0.067	µg/L	Y	—	NQ	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.254	—	—	0.05	µg/L	Y	—	U	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	N	0.207	—	—	0.05	µg/L	Y	—	U	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.21	—	—	0.05	µg/L	Y	—	NQ	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.2	—	—	0.05	µg/L	Y	J	J	08-1826	CALA-08-13862	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.621	0.0406	0.0557	—	pCi/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.439	0.0448	0.0831	—	pCi/L	Y	—	J	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.394	0.0415	0.0731	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.3	0.037	0.062	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.291	0.036	0.06	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.15	0.028	0.16	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0716	0.017	0.12	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.101	0.016	0.061	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.105	0.017	0.075	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0345	0.0121	0.0433	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0211	0.0127	0.048	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0223	0.0105	0.0422	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0216	0.0089	0.04	—	pCi/L	Y	U	U	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0035	0.0078	0.039	—	pCi/L	Y	U	U	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00533	0.0053	0.081	—	pCi/L	Y	U	U	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.023	0.011	0.058	—	pCi/L	Y	U	U	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0131	0.007	0.032	—	pCi/L	Y	U	U	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00539	0.0076	0.04	—	pCi/L	Y	U	U	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.383	0.0316	0.0356	—	pCi/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.362	0.0352	0.0534	—	pCi/L	Y	—	J	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.421	0.0363	0.047	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.186	0.027	0.042	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5224	GELC
LAO-3a	4.7	03/11/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.204	0.028	0.041	—	pCi/L	Y	—	NQ	11-1620	CALA-11-5227	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.027	0.081	—	pCi/L	Y	—	NQ	09-2653	CALA-09-11091	GELC
LAO-3a	4.7	07/15/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0619	0.016	0.058	—	pCi/L	Y	—	NQ	09-2653	CALA-09-11092	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0584	0.012	0.032	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13860	GELC
LAO-3a	4.7	09/02/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0676	0.015	0.039	—	pCi/L	Y	—	NQ	08-1827	CALA-08-13863	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.14	—	—	1	µg/L	Y	J	J	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.26	—	—	1	µg/L	Y	J	J	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.06	—	—	1	µg/L	Y	J	J	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.67	—	—	1	µg/L	Y	J	J	11-1620	CALA-11-5225	GELC
LAO-3a	4.7	03/11/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.62	—	—	1	µg/L	Y	J	J	11-1620	CALA-11-5228	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.73	—	—	1	µg/L	Y	J	J	09-2652	CALA-09-11089	GELC
LAO-3a	4.7	07/15/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.78	—	—	1	µg/L	Y	J	J	09-2652	CALA-09-11093	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.6	—	—	1	µg/L	Y	J	J	08-1826	CALA-08-13859	GELC
LAO-3a	4.7	09/02/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.7	—	—	1	µg/L	Y	J	J	08-1826	CALA-08-13862	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.15	—	—	0.01	SU	Y	H	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.34	—	—	0.01	SU	Y	H	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.01	—	—	0.01	SU	Y	H	J-	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.18	—	—	0.01	SU	Y	H	J-	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.09	—	—	0.01	SU	Y	H	J-	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	157	—	—	0.725	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	174	—	—	0.725	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	174	—	—	0.73	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	171	—	—	0.73	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	164	—	—	0.73	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00862	0.00643	0.0437	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00557	0.00491	0.0334	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0123	0.0068	0.024	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0000416	0.0016	0.033	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000892	0.012	0.034	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	118	—	—	1	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	130	—	—	1	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	150	—	—	1	µg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	159	—	—	1	µg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	144	—	—	1	µg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	59.4	—	—	15	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	63.5	—	—	15	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	72.1	—	—	15	µg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	86.3	—	—	15	µg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	87.8	—	—	15	µg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.124	—	—	0.067	mg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.123	—	—	0.067	mg/L	Y	J	J	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.165	—	—	0.066	mg/L	Y	J	J	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.167	—	—	0.066	mg/L	Y	J	J	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.133	—	—	0.066	mg/L	Y	J	J	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	Y	0.137	—	—	0.11	µg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	41	—	—	0.05	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	46.7	—	—	0.05	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	52.3	—	—	0.05	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	51.2	—	—	0.05	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	48.9	—	—	0.05	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.83	1.02	3.86	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0105	1.3	4.71	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.15	1.7	6.2	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.659	1.2	4	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.744	1.6	5	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.8	—	—	0.335	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	25.7	—	—	0.134	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	30.1	—	—	0.33	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	29.9	—	—	0.66	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	29.7	—	—	0.33	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.47	1.27	3.47	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.32	1.28	5.21	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.72	1.8	6.8	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.762	1.4	4.1	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.858	1.5	5.3	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.452	—	—	0.033	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.427	—	—	0.033	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.389	—	—	0.033	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.42	—	—	0.033	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.51	—	—	0.033	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.233	0.512	2.44	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	3.09	1.05	2.93	—	pCi/L	Y	—	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.66	0.88	2.5	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.962	0.97	3.4	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	16.3	2.5	2.2	—	pCi/L	Y	—	NQ	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.32	0.567	1.76	—	pCi/L	Y	—	NQ	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.46	0.795	2.57	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.73	0.93	2.4	—	pCi/L	Y	—	NQ	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.22	1	2.8	—	pCi/L	Y	—	NQ	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.12	0.85	2.6	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	120	—	—	0.453	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	136	—	—	0.453	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	153	—	—	0.45	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	150	—	—	0.35	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	144	—	—	0.35	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.39	—	—	0.11	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.78	—	—	0.11	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.36	—	—	0.11	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.3	—	—	0.085	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.35	—	—	0.085	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.5	—	—	0.165	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.17	µg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.1	µg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.1	µg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.35	2.09	7.03	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.94	2.85	9.59	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.25	2.4	8.2	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	31.7	16	44	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	01/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.49	11	35	—	pCi/L	Y	U	U	09-592	CALA-09-1715	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.71	—	—	0.5	µg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	17.8	—	—	0.5	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.72	—	—	0.5	µg/L	Y	J	J	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.38	—	—	0.5	µg/L	Y	J	J	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.21	—	—	0.5	µg/L	Y	J	J	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0259	—	—	0.017	mg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.085	mg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0985	—	—	0.05	mg/L	Y	J	J-	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.176	—	—	0.05	mg/L	Y	J	U	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.05	—	—	0.01	mg/L	Y	U	U	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0616	—	—	0.05	µg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0517	—	—	0.05	µg/L	Y	J	J	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0548	—	—	0.05	µg/L	Y	J	J	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0727	—	—	0.05	µg/L	Y	J	J	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0524	—	—	0.05	µg/L	Y	J	J	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00253	0.0076	0.0237	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0105	0.0114	0.0382	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00221	0.0038	0.033	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0036	0.02	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.004	0.032	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.038	0.0141	0.0499	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00176	0.00634	0.0293	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00442	0.0063	0.046	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00361	0.0051	0.029	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00198	0.0059	0.039	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.44	—	—	0.05	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.59	—	—	0.05	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.95	—	—	0.05	mg/L	Y	E	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.33	—	—	0.05	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.13	—	—	0.05	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.34	12.9	34.3	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.31	15.8	60.2	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.7	20	71	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	19.9	17	62	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.7	20	68	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.4	—	—	0.053	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.2	—	—	0.053	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.2	—	—	0.053	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.3	—	—	0.053	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	60	—	—	0.053	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	37	—	—	0.1	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	36.5	—	—	0.1	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	39.1	—	—	0.1	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	40.8	—	—	0.1	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	41.5	—	—	0.1	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.129	1.06	3.39	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.57	1.51	5.14	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.05	1.4	5	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.801	1.3	3.9	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.6	1.6	4.5	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	412	—	—	1	µS/cm	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	440	—	—	1	µS/cm	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	455	—	—	1	µS/cm	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	465	—	—	1	µS/cm	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	445	—	—	1	µS/cm	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	357	—	—	1	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	395	—	—	1	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	416	—	—	1	µg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	448	—	—	1	µg/L	Y	E	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	436	—	—	1	µg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0592	0.13	0.49	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00266	0.138	0.489	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0168	0.14	0.51	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.175	0.13	0.46	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.127	0.14	0.49	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.4	—	—	0.133	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	17.5	—	—	0.133	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	17.8	—	—	0.1	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.3	—	—	0.1	mg/L	Y	—	J+	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.3	—	—	0.1	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	256	—	—	3.4	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	303	—	—	3.4	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	319	—	—	2.4	mg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	336	—	—	2.4	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	306	—	—	2.4	mg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.766	—	—	0.33	mg/L	Y	J	J	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.812	—	—	0.33	mg/L	Y	J	J	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.689	—	—	0.33	mg/L	Y	J	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.22	—	—	0.33	mg/L	Y	—	NQ	10-4370	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.697	—	—	0.33	mg/L	Y	J	J	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0382	—	—	0.017	mg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.139	—	—	0.017	mg/L	Y	—	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0462	—	—	0.015	mg/L	Y	J	U	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.064	—	—	0.015	mg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.12	—	—	0.015	mg/L	Y	—	U	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.43	—	—	0.067	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.2	—	—	0.067	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.89	—	—	0.067	µg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.35	—	—	0.05	µg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.17	—	—	0.05	µg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.61	0.0472	0.0793	—	pCi/L	Y	—	NQ	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.13	0.0525	0.058	—	pCi/L	Y	—	NQ	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.754	0.072	0.062	—	pCi/L	Y	—	NQ	11-2719	CALA-11-14674	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.629	0.061	0.072	—	pCi/L	Y	—	NQ	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.764	0.072	0.11	—	pCi/L	Y	—	NQ	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0178	0.0126	0.0617	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0295	0.0102	0.0335	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0313	0.011	0.033	—	pCi/L	Y	U	U	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0199	0.0095	0.036	—	pCi/L	Y	U	U	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0252	0.011	0.055	—	pCi/L	Y	U	U	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.44	0.0408	0.0507	—	pCi/L	Y	—	NQ	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.672	0.0405	0.0373	—	pCi/L	Y	—	NQ	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.473	0.051	0.037	—	pCi/L	Y	—	NQ	11-2719	CALA-11-14674	GELC
LLAO-4	5.24	08/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.448	0.047	0.032	—	pCi/L	Y	—	NQ	10-4371	CALA-10-25247	GELC
LLAO-4	5.24	07/08/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.441	0.048	0.055	—	pCi/L	Y	—	NQ	09-2571	CALA-09-11202	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.92	—	—	1	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.98	—	—	1	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.55	—	—	1	µg/L	Y	—	NQ	11-2719	CALA-11-14675	GELC
LLAO-4	5.24	08/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.79	—	—	1	µg/L	Y	—	NQ	10-4370	CALA-10-25246	GELC
LLAO-4	5.24	07/08/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.35	—	—	1	µg/L	Y	—	NQ	09-2571	CALA-09-11201	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.26	—	—	0.01	SU	Y	H	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.23	—	—	0.01	SU	Y	H	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.29	—	—	0.01	SU	Y	H	J-	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.18	—	—	0.01	SU	Y	H	J-	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.26	—	—	0.01	SU	Y	H	J-	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	171	—	—	0.725	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	166	—	—	0.725	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	164	—	—	0.73	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	168	—	—	0.73	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	183	—	—	0.73	mg/L	Y	—	NQ	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.018	0.00848	0.0455	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00392	0.0048	0.0353	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00201	0.002	0.029	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00399	0.0071	0.039	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000808	0.0059	0.032	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.14	—	—	1.7	µg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.99	—	—	1.7	µg/L	Y	J	J	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.86	—	—	1.7	µg/L	Y	J	J	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	4.08	—	—	1.5	µg/L	Y	J	U	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.2	—	—	1.5	µg/L	Y	J	J	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	114	—	—	1	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	117	—	—	1	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	111	—	—	1	µg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	115	—	—	1	µg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	112	—	—	1	µg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	236	—	—	15	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	243	—	—	15	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	250	—	—	15	µg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	237	—	—	15	µg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	225	—	—	10	µg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.118	—	—	0.067	mg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0905	—	—	0.067	mg/L	Y	J	J	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.133	—	—	0.066	mg/L	Y	J	J	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.111	—	—	0.067	mg/L	Y	J	J	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	51.2	—	—	0.05	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	48.8	—	—	0.05	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	48.4	—	—	0.05	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	49.7	—	—	0.05	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	49.9	—	—	0.03	mg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.26	1.68	6.29	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.999	1.53	5.64	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.27	1.6	5.6	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.646	1.7	5.2	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.553	1.4	4.6	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	47.7	—	—	0.67	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	46.8	—	—	0.67	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	48.9	—	—	0.33	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	47.4	—	—	0.33	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	45.1	—	—	0.33	mg/L	Y	—	NQ	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.09	—	—	2	µg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.2	—	—	1.5	µg/L	Y	J	J	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.5	—	—	1	µg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.69	—	—	1	µg/L	Y	J	J	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.76	—	—	1	µg/L	Y	J	J	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	2.1	—	—	1	µg/L	Y	J	J	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.6	—	—	1	µg/L	Y	J	J	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.24	1.5	6	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.373	1.24	4.84	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.367	1.8	5.8	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.07	1.7	6	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.3	1.5	4.3	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.297	—	—	0.033	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.327	—	—	0.033	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.311	—	—	0.033	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.386	—	—	0.033	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.289	—	—	0.033	mg/L	Y	—	J-	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.04	0.962	2.52	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.53	0.882	2.66	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.68	1.6	3	—	pCi/L	Y	—	NQ	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.116	0.59	2.8	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	08/02/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	12.2	3.01	6.65	—	pCi/L	Y	—	J	190796	GU070700G4OP01	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.9	0.71	1.79	—	pCi/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.13	1.1	2.31	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.95	1.6	2.9	—	pCi/L	Y	—	NQ	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.23	0.91	1.9	—	pCi/L	Y	—	NQ	09-2657	CAPU-09-11240	GELC
POI-4	159	08/02/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	11.1	2.32	5.92	—	pCi/L	Y	—	J	190796	GU070700G4OP01	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	181	—	—	0.453	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	173	—	—	0.453	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	171	—	—	0.45	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	177	—	—	0.35	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	179	—	—	0.35	mg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	12.8	—	—	0.11	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	12.5	—	—	0.11	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	12.3	—	—	0.11	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	12.8	—	—	0.085	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	13.2	—	—	0.085	mg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.95	—	—	0.165	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.73	—	—	0.165	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.69	—	—	0.17	µg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.92	—	—	0.1	µg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.8	—	—	0.1	µg/L	Y	—	J	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.05	2.95	10.2	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.285	2.99	10.2	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.22	3	10	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	21.1	13	43	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	7.45	12	35	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.4	—	—	0.5	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.43	—	—	0.5	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.89	—	—	0.5	µg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.4	—	—	0.5	µg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	10.2	—	—	0.5	µg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.1	—	—	0.085	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.69	—	—	0.17	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.15	—	—	0.05	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	5.26	—	—	0.1	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.95	—	—	0.1	mg/L	Y	—	J-	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.306	—	—	0.05	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.307	—	—	0.05	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.37	—	—	0.05	µg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.322	—	—	0.05	µg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.313	—	—	0.05	µg/L	Y	—	NQ	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-1.51E-09	0.00717	0.0212	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00512	0.0381	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00595	0.0053	0.025	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0124	0.012	0.033	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00335	0.0047	0.051	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00906	0.00848	0.0446	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00209	0.00467	0.0295	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0139	0.0066	0.037	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00622	0.0055	0.041	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.0602	0.014	0.057	—	pCi/L	Y	—	NQ	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.82	—	—	0.05	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	9.23	—	—	0.05	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.61	—	—	0.05	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	9.15	—	—	0.05	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.78	—	—	0.05	mg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.15	19.7	72.7	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.6	18.8	76.1	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	36.4	23	41	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	45.5	21	79	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	45.3	21	28	—	pCi/L	Y	UI	R	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.1	—	—	0.053	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.7	—	—	0.053	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.6	—	—	0.053	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	57.1	—	—	0.053	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.4	—	—	0.032	mg/L	Y	—	NQ	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	45.9	—	—	0.1	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	45.3	—	—	0.1	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	44.9	—	—	0.1	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	46.2	—	—	0.1	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	42.6	—	—	0.045	mg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.77	1.9	5.94	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.33	1.47	5.8	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.557	1.7	5.6	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.16	1.5	3.5	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.11	1.2	4.2	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	621	—	—	1	µS/cm	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	561	—	—	1	µS/cm	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	580	—	—	1	µS/cm	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	560	—	—	1	µS/cm	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	582	—	—	1	µS/cm	Y	—	NQ	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	257	—	—	1	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	261	—	—	1	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	252	—	—	1	µg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	259	—	—	1	µg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	251	—	—	1	µg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.35	0.148	0.478	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.409	0.155	0.483	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.206	0.14	0.47	—	pCi/L	Y	U	U	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0863	0.14	0.47	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.129	0.09	0.3	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	30.9	—	—	1.33	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	32.8	—	—	0.133	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	31.8	—	—	0.1	mg/L	Y	—	J+	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.2	—	—	0.1	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.2	—	—	0.1	mg/L	Y	—	NQ	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	373	—	—	3.4	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	331	—	—	3.4	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	372	—	—	2.4	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	369	—	—	2.4	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	365	—	—	2.4	mg/L	Y	—	NQ	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.194	—	—	0.033	mg/L	Y	—	J-	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.195	—	—	0.035	mg/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.137	—	—	0.033	mg/L	Y	—	J-	11-1616	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.232	—	—	0.033	mg/L	Y	—	NQ	09-2657	CAPU-09-11240	GELC
POI-4	159	01/22/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.029	mg/L	Y	U	U	09-714	CAPU-09-1779	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.64	—	—	0.33	mg/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.9	—	—	0.33	mg/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.62	—	—	0.33	mg/L	Y	—	NQ	11-1616	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.64	—	—	0.33	mg/L	Y	—	NQ	09-2657	CAPU-09-11240	GELC
POI-4	159	01/22/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.26	—	—	0.33	mg/L	Y	—	NQ	09-714	CAPU-09-1779	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.973	—	—	0.017	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.69	—	—	0.017	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.2	—	—	0.015	mg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.22	—	—	0.015	mg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.4	—	—	0.024	mg/L	Y	—	J-	09-714	CAPU-09-1778	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.83	—	—	0.067	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.67	—	—	0.067	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.38	—	—	0.067	µg/L	Y	—	NQ	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.74	—	—	0.05	µg/L	Y	—	NQ	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	3.1	—	—	0.05	µg/L	Y	—	NQ	08-1846	CAPU-08-14781	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.44	0.0792	0.0934	—	pCi/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.14	0.0557	0.0647	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.2	0.1	0.053	—	pCi/L	Y	—	NQ	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.23	0.11	0.12	—	pCi/L	Y	—	NQ	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.29	0.11	0.16	—	pCi/L	Y	—	NQ	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.042	0.0196	0.0726	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0427	0.0119	0.0374	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0368	0.012	0.034	—	pCi/L	Y	—	NQ	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0399	0.014	0.06	—	pCi/L	Y	U	U	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0671	0.025	0.083	—	pCi/L	Y	U	U	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	1.02	0.0664	0.0596	—	pCi/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.782	0.0459	0.0416	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.788	0.072	0.036	—	pCi/L	Y	—	NQ	11-1617	CAPU-11-5282	GELC
POI-4	159	07/15/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.859	0.081	0.061	—	pCi/L	Y	—	NQ	09-2657	CAPU-09-11240	GELC
POI-4	159	09/04/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.923	0.089	0.081	—	pCi/L	Y	—	NQ	08-1846	CAPU-08-14782	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.15	—	—	1	µg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.02	—	—	1	µg/L	Y	J	J	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	4.92	—	—	1	µg/L	Y	J	U	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.78	—	—	1	µg/L	Y	J	J	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.4	—	—	1	µg/L	Y	J	J	08-1846	CAPU-08-14781	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	22.1	—	—	3.3	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-1219	CAPU-12-12570	GELC
POI-4	159	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.36	—	—	3.3	µg/L	Y	J	J	11-1617	CAPU-11-5280	GELC
POI-4	159	07/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	09-2657	CAPU-09-11239	GELC
POI-4	159	09/04/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.5	—	—	2	µg/L	Y	J*	J	08-1846	CAPU-08-14781	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.63	—	—	0.01	SU	Y	H	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.5	—	—	0.01	SU	Y	H	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	J-	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.62	—	—	0.01	SU	Y	H	J-	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.53	—	—	0.01	SU	Y	H	J-	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.43	—	—	0.01	SU	Y	H	J-	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.9	—	—	0.725	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.1	—	—	0.725	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.4	—	—	0.73	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.8	—	—	0.73	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.5	—	—	0.73	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62	—	—	0.73	mg/L	Y	—	NQ	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00286	0.00496	0.0435	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.01	0.00961	0.0361	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00524	0.0033	0.029	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00796	0.0042	0.031	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0145	0.013	0.043	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00328	0.0025	0.025	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.8	—	—	1	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.8	—	—	1	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15	—	—	1	µg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.8	—	—	1	µg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	16	—	—	1	µg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.5	—	—	1	µg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.8	—	—	0.05	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12	—	—	0.05	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.3	—	—	0.05	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.1	—	—	0.05	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.6	—	—	0.05	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.9	—	—	0.03	mg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.13	0.923	3.26	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.3	1.75	4.32	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.59	2.2	7.5	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.09	1.2	4.2	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.74	1.6	4.4	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.43	1.1	3.9	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.17	—	—	0.067	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.1	—	—	0.067	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.23	—	—	0.066	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.22	—	—	0.066	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.41	—	—	0.066	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.17	—	—	0.066	mg/L	Y	—	NQ	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.8	—	—	2	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.72	—	—	2	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.76	—	—	2	µg/L	Y	J	J	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.8	—	—	2	µg/L	Y	J	J	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.95	—	—	2.5	µg/L	Y	J	J	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.5	—	—	1.5	µg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.487	0.999	3.53	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.49	0.819	3.1	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.3	1.4	5.1	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.5	1.4	3.6	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.955	1.6	5.6	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.433	1.3	4.1	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.09	—	—	3	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	6.57	—	—	3	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.227	—	—	0.033	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.253	—	—	0.033	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.252	—	—	0.033	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.261	—	—	0.033	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.281	—	—	0.033	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0322	0.464	2.31	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.88	0.927	2.75	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.05	0.79	2.6	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.21	0.57	2.5	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.472	0.52	2	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	07/16/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.13	0.887	3.07	—	pCi/L	Y	U	U	189777	GU070700G02R01	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.373	0.753	2.72	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.17	0.78	2.3	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.22	0.97	2.9	—	pCi/L	Y	—	NQ	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.99	0.81	2.5	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	23.2	2.7	3.8	—	pCi/L	Y	—	NQ	09-2599	CAPU-09-11257	GELC
R-2	906.4	07/16/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.35	1.39	3.5	—	pCi/L	Y	—	J	189777	GU070700G02R01	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43	—	—	0.453	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44	—	—	0.453	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.3	—	—	0.45	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.5	—	—	0.45	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.8	—	—	0.35	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.1	—	—	0.35	mg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.3	—	—	0.11	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.39	—	—	0.11	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.32	—	—	0.11	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.25	—	—	0.11	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.11	—	—	0.085	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.09	—	—	0.085	mg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	9.82	—	—	2	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	6.29	—	—	2	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	11.7	—	—	2	µg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	11.8	—	—	2	µg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	12.6	—	—	2	µg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	20.1	—	—	2	µg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.89	—	—	0.165	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.76	—	—	0.165	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.01	—	—	0.17	µg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.89	—	—	0.17	µg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.72	—	—	0.1	µg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2	—	—	0.1	µg/L	Y	—	J	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.0615	1.93	6.58	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.335	1.65	5.47	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.327	2.1	6.9	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.31	2.3	7.5	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	16.3	13	45	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-19.6	7.7	21	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.17	—	—	0.5	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.01	—	—	0.5	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.82	—	—	0.5	µg/L	Y	J	J	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.79	—	—	0.5	µg/L	Y	J	J	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.4	—	—	0.5	µg/L	Y	J	J	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3	—	—	0.5	µg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.45	—	—	0.017	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.447	—	—	0.085	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.405	—	—	0.05	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.57	—	—	0.05	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.497	—	—	0.05	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.456	—	—	0.05	mg/L	Y	—	NQ	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.338	—	—	0.05	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.358	—	—	0.05	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.384	—	—	0.05	µg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.376	—	—	0.05	µg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.386	—	—	0.05	µg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.397	—	—	0.05	µg/L	Y	—	NQ	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00385	0.0255	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0165	0.0085	0.043	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0021	0.0021	0.026	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00782	0.0044	0.024	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00384	0.0077	0.031	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0204	0.013	0.032	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00272	0.00609	0.0536	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.36E-09	0.00817	0.0333	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0042	0.0042	0.039	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00781	0.0044	0.036	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00192	0.0033	0.038	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.7E-10	0.0045	0.039	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.999	—	—	0.05	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.22	—	—	0.05	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.24	—	—	0.05	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.18	—	—	0.05	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.11	—	—	0.05	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.08	—	—	0.05	mg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.26	12.6	46.3	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.6	12	35.2	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.3	16	51	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-30.9	15	46	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.05	16	53	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29.7	15	40	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	85.7	—	—	0.053	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	92.5	—	—	0.053	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	85.7	—	—	0.053	mg/L	Y	—	J+	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	85.9	—	—	0.053	mg/L	Y	—	J+	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	87.7	—	—	0.053	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	86.7	—	—	0.032	mg/L	Y	—	NQ	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14	—	—	0.1	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.7	—	—	0.1	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.6	—	—	0.045	mg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.915	0.883	3.05	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.335	0.817	2.92	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.56	1.3	4.6	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.76	1.4	5	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.963	1.4	4.9	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.01	1.1	3.1	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	µS/cm	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	µS/cm	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	1	µS/cm	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	143	—	—	1	µS/cm	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	µS/cm	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	137	—	—	1	µS/cm	Y	—	NQ	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.1	—	—	1	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58	—	—	1	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.7	—	—	1	µg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.2	—	—	1	µg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.9	—	—	1	µg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.7	—	—	1	µg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.142	0.145	0.493	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.392	0.153	0.49	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0604	0.11	0.4	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.292	0.11	0.5	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.116	0.1	0.35	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0883	0.092	0.36	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.51	—	—	0.133	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.49	—	—	0.133	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.72	—	—	0.1	mg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.67	—	—	0.1	mg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.53	—	—	0.1	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.41	—	—	0.1	mg/L	Y	—	J-	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	2.4	mg/L	Y	—	J	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	2.4	mg/L	Y	—	J	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	160	—	—	2.4	mg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	2.4	mg/L	Y	—	J	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.621	—	—	0.33	mg/L	Y	J	J	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.863	—	—	0.33	mg/L	Y	J	J	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	01/14/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	09-638	CAPU-09-1797	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0395	—	—	0.017	mg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0419	—	—	0.017	mg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.104	—	—	0.015	mg/L	Y	—	U	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.038	—	—	0.015	mg/L	Y	J	U	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.049	—	—	0.015	mg/L	Y	J	J	09-2599	CAPU-09-11258	GELC
R-2	906.4	01/14/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.035	—	—	0.024	mg/L	Y	J	J	09-638	CAPU-09-1798	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.429	—	—	0.067	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.334	—	—	0.067	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.393	—	—	0.067	µg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.388	—	—	0.067	µg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.43	—	—	0.05	µg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.53	—	—	0.05	µg/L	Y	—	NQ	08-1815	CAPU-08-14788	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.331	0.0298	0.0582	—	pCi/L	Y	—	NQ	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.281	0.0299	0.0612	—	pCi/L	Y	—	NQ	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.355	0.04	0.054	—	pCi/L	Y	—	NQ	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.366	0.04	0.054	—	pCi/L	Y	—	NQ	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.395	0.042	0.097	—	pCi/L	Y	—	NQ	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.688	0.054	0.065	—	pCi/L	Y	—	NQ	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00982	0.00866	0.0453	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00621	0.00761	0.0353	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00625	0.0063	0.035	—	pCi/L	Y	U	U	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0155	0.0083	0.034	—	pCi/L	Y	U	U	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0125	0.0063	0.047	—	pCi/L	Y	U	U	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0282	0.0089	0.035	—	pCi/L	Y	U	U	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.0178	0.0372	—	pCi/L	Y	—	NQ	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.113	0.0169	0.0393	—	pCi/L	Y	—	NQ	12-1231	CAPU-12-12563	GELC
R-2	906.4	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.096	0.018	0.037	—	pCi/L	Y	—	NQ	11-1594	CAPU-11-5290	GELC
R-2	906.4	03/09/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.178	0.025	0.037	—	pCi/L	Y	—	NQ	11-1594	CAPU-11-5292	GELC
R-2	906.4	07/10/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.174	0.024	0.048	—	pCi/L	Y	—	NQ	09-2599	CAPU-09-11257	GELC
R-2	906.4	08/29/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.482	0.041	0.034	—	pCi/L	Y	—	NQ	08-1815	CAPU-08-14787	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.31	—	—	1	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.32	—	—	1	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.54	—	—	1	µg/L	Y	—	NQ	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.47	—	—	1	µg/L	Y	—	NQ	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.52	—	—	1	µg/L	Y	—	NQ	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	9.9	—	—	1	µg/L	Y	—	U	08-1815	CAPU-08-14788	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.7	—	—	3.3	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.7	—	—	3.3	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.16	—	—	3.3	µg/L	Y	J	J	11-1594	CAPU-11-5291	GELC
R-2	906.4	03/09/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.05	—	—	3.3	µg/L	Y	J	J	11-1594	CAPU-11-5293	GELC
R-2	906.4	07/10/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.48	—	—	3.3	µg/L	Y	J	J	09-2599	CAPU-09-11258	GELC
R-2	906.4	08/29/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.2	—	—	2	µg/L	Y	J	J	08-1815	CAPU-08-14788	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	J-	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	J-	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	105	—	—	0.725	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	103	—	—	0.725	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	104	—	—	0.73	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	105	—	—	0.73	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	103	—	—	0.73	mg/L	Y	—	NQ	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00191	0.00506	0.0291	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00194	0.00433	0.0349	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00795	0.004	0.028	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00495	0.012	0.045	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0014	0.0052	0.028	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0369	—	—	0.017	mg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.042	—	—	0.017	mg/L	Y	J	U	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.121	—	—	0.015	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.03	mg/L	Y	U	UJ	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.4	—	—	1.7	µg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.71	—	—	1.7	µg/L	Y	J	J	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	10.6	—	—	1.5	µg/L	Y	—	U	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.6	—	—	1.5	µg/L	Y	J	J	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	53.1	—	—	1	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	58.1	—	—	1	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	59.3	—	—	1	µg/L	Y	—	J	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	67.1	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	45.9	—	—	15	µg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	50.4	—	—	15	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	49.9	—	—	15	µg/L	Y	J	J	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	51.7	—	—	15	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	46.3	—	—	10	µg/L	Y	J	J	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0692	—	—	0.067	mg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.095	—	—	0.066	mg/L	Y	J	J	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.8	—	—	0.05	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.4	—	—	0.05	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.9	—	—	0.05	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20	—	—	0.05	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.5	—	—	0.03	mg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.747	1.98	7.18	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.153	1.47	5.16	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.873	1.4	4.5	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.657	1.7	5.4	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.87	1.4	4.7	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.96	—	—	0.067	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.53	—	—	0.067	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.57	—	—	0.066	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.51	—	—	0.066	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.47	—	—	0.066	mg/L	Y	—	NQ	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.45	—	—	2	µg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.8	—	—	2	µg/L	Y	J	J	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.78	—	—	2	µg/L	Y	J	J	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.35	—	—	2.5	µg/L	Y	J	J	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.3	—	—	1.5	µg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.89	1.47	7.33	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.36	1.47	6.28	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.51	1.8	5	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.77	1.6	4.1	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.741	1.5	5.1	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.302	—	—	0.033	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.307	—	—	0.033	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.358	—	—	0.033	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.328	—	—	0.033	mg/L	Y	—	NQ	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.14	0.797	2.69	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.18	0.711	2.24	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.557	0.73	2.8	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.631	0.71	2.5	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	07/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.217	0.662	2.94	—	pCi/L	Y	U	U	190028	GU070700GR2401	GELC
R-24	825	07/18/07	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.18	0.898	2.28	—	pCi/L	Y	U	U	190028	GU070700GR2420	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.04	0.512	1.53	—	pCi/L	Y	—	NQ	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.6	0.872	2.82	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.97	0.85	2.6	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3	0.62	1.7	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11269	GELC
R-24	825	07/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.79	1.08	2.89	—	pCi/L	Y	—	J	190028	GU070700GR2401	GELC
R-24	825	07/18/07	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4.7	1.34	3.72	—	pCi/L	Y	—	J	190028	GU070700GR2420	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.8	—	—	0.453	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67	—	—	0.45	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.8	—	—	0.35	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.7	—	—	0.35	mg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.59	—	—	0.11	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.75	—	—	0.11	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.61	—	—	0.11	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.62	—	—	0.085	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.78	—	—	0.085	mg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2	—	—	0.165	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.22	—	—	0.165	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.46	—	—	0.17	µg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.52	—	—	0.1	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3	—	—	0.1	µg/L	Y	—	J	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.69	3.39	11.1	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.05	2.28	8.56	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.417	3.1	10	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	44.1	15	48	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.51	9.4	30	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.71	—	—	0.5	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	10.1	—	—	0.5	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.23	—	—	0.5	µg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	4.25	—	—	0.5	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	4.8	—	—	0.5	µg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.372	—	—	0.017	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.354	—	—	0.085	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.368	—	—	0.05	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.119	—	—	0.01	mg/L	Y	—	U	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.248	—	—	0.05	mg/L	Y	J	J	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.426	—	—	0.05	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.384	—	—	0.05	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.439	—	—	0.05	µg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.394	—	—	0.05	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.356	—	—	0.05	µg/L	Y	—	NQ	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00476	0.00476	0.0223	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00638	0.00475	0.0388	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00972	0.0048	0.024	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00402	0.0064	0.032	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00167	0.006	0.023	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00952	0.00753	0.0469	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00425	0.00425	0.03	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00389	0.0048	0.036	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0049	0.039	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.005	0.0044	0.028	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.19	—	—	0.05	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.45	—	—	0.05	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.31	—	—	0.05	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.26	—	—	0.05	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.31	—	—	0.05	mg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	22.6	25.9	107	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.3	18.6	73.1	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-26.2	21	59	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.7	19	60	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.79	17	60	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56	—	—	0.053	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.9	—	—	0.053	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	54.2	—	—	0.053	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.3	—	—	0.053	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.4	—	—	0.032	mg/L	Y	—	NQ	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.6	—	—	0.1	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.2	—	—	0.1	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.6	—	—	0.1	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.6	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	26.1	—	—	0.045	mg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.571	1.55	6.83	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.83	1.33	5.95	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.8	1.7	5	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-5.98	1.8	4	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.426	1.2	3.6	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	1	µS/cm	Y	—	NQ	2013-917	CAPU-13-34784	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	1	µS/cm	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	247	—	—	1	µS/cm	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	232	—	—	1	µS/cm	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	241	—	—	1	µS/cm	Y	—	NQ	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	115	—	—	1	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	125	—	—	1	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	118	—	—	1	µg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	113	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	115	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.113	0.106	0.444	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.126	0.124	0.496	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00229	0.14	0.51	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0963	0.11	0.39	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.058	0.08	0.28	—	pCi/L	Y	U	U	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.26	—	—	0.133	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.75	—	—	0.133	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.17	—	—	0.1	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.09	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.74	—	—	0.1	mg/L	Y	—	J-	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	173	—	—	3.4	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	180	—	—	2.4	mg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	180	—	—	2.4	mg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	01/15/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	186	—	—	2.4	mg/L	Y	—	J	09-655	CAPU-09-1803	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.671	—	—	0.33	mg/L	Y	J	J	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.591	—	—	0.33	mg/L	Y	J	J	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1616	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.405	—	—	0.33	mg/L	Y	J	U	09-2673	CAPU-09-11269	GELC
R-24	825	01/15/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.453	—	—	0.33	mg/L	Y	J	J	09-655	CAPU-09-1804	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.25	—	—	0.067	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.53	—	—	0.067	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.47	—	—	0.067	µg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.39	—	—	0.05	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2	—	—	0.05	µg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.828	0.051	0.0641	—	pCi/L	Y	—	J	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.72	0.053	0.0948	—	pCi/L	Y	—	NQ	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.775	0.072	0.056	—	pCi/L	Y	—	NQ	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.871	0.097	0.19	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.934	0.068	0.066	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0288	0.0135	0.0498	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0434	0.0145	0.0548	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0358	0.011	0.036	—	pCi/L	Y	U	U	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0346	0.016	0.093	—	pCi/L	Y	U	U	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0497	0.012	0.035	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.434	0.0377	0.0409	—	pCi/L	Y	—	J	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.491	0.0441	0.061	—	pCi/L	Y	—	NQ	12-1216	CAPU-12-12564	GELC
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.397	0.043	0.038	—	pCi/L	Y	—	NQ	11-1617	CAPU-11-5296	GELC
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.485	0.064	0.094	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11269	GELC
R-24	825	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.566	0.046	0.034	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14805	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	18.7	—	—	1	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	17.7	—	—	1	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	16.2	—	—	1	µg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	17.6	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	19.2	—	—	1	µg/L	Y	—	U	08-1777	CAPU-08-14806	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.9	—	—	3.3	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.1	—	—	3.3	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	03/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14	—	—	3.3	µg/L	Y	—	NQ	11-1617	CAPU-11-5297	GELC
R-24	825	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.7	—	—	3.3	µg/L	Y	—	NQ	09-2673	CAPU-09-11270	GELC
R-24	825	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	16.4	—	—	2	µg/L	Y	—	NQ	08-1777	CAPU-08-14806	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.27	—	—	0.01	SU	Y	H	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.34	—	—	0.01	SU	Y	H	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.29	—	—	0.01	SU	Y	H	J-	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.22	—	—	0.01	SU	Y	H	J-	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	J-	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.34	—	—	0.01	SU	Y	H	J-	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	2.1	—	—	0.725	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	1.04	—	—	0.725	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	1.06	—	—	0.73	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.73	mg/L	Y	U	U	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.73	mg/L	Y	U	U	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	1.05	—	—	0.73	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.2	—	—	0.725	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85	—	—	0.725	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.5	—	—	0.73	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	88.9	—	—	0.73	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	88.9	—	—	0.73	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	90	—	—	0.73	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0117	0.00826	0.0443	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00544	0.00544	0.049	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0128	0.0071	0.013	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00217	0.0038	0.03	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0047	0.0094	0.033	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0074	0.005	0.032	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0185	—	—	0.017	mg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0583	—	—	0.017	mg/L	Y	—	U	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0498	—	—	0.016	mg/L	Y	J	J	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.025	—	—	0.016	mg/L	Y	J	U	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.06	—	—	1.7	µg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	6.7	—	—	1.7	µg/L	Y	—	U	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	6.62	—	—	1.7	µg/L	Y	—	U	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	46.2	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	46	—	—	1	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	45.3	—	—	1	µg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	42.5	—	—	1	µg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	43.5	—	—	1	µg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	44.2	—	—	1	µg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.7	—	—	15	µg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.7	—	—	15	µg/L	Y	J	J	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.4	—	—	15	µg/L	Y	J	J	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.3	—	—	15	µg/L	Y	J	J	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	23	—	—	15	µg/L	Y	J	J	11-2661	CAPU-11-13936	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.9	—	—	15	µg/L	Y	J	J	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0689	—	—	0.067	mg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0685	—	—	0.066	mg/L	Y	J	J	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0778	—	—	0.066	mg/L	Y	J	J	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0972	—	—	0.066	mg/L	Y	J	J	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.2	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.2	—	—	0.05	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.6	—	—	0.05	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.6	—	—	0.05	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.1	—	—	0.05	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.9	—	—	0.05	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.42	0.83	3.12	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.66	1.18	3.79	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.12	1.4	4.8	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.21	1.4	4.9	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.581	1.3	4	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.284	1.4	4.5	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.02	—	—	0.067	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.73	—	—	0.067	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.97	—	—	0.066	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.09	—	—	0.066	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.15	—	—	0.066	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.07	—	—	0.066	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.46	—	—	2	µg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.46	—	—	2	µg/L	Y	J	J	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	7.86	—	—	2	µg/L	Y	J	U	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	7.02	—	—	2	µg/L	Y	J	U	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.77	—	—	2	µg/L	Y	J	J	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.406	1.07	3.88	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.39	1.03	3.36	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.453	1.4	4.5	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.41	1.7	6.3	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0686	1.5	4.8	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.31	1.4	4.6	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.247	—	—	0.033	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.255	—	—	0.033	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.285	—	—	0.033	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.298	—	—	0.033	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.6	0.931	2.99	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.81	0.871	2.51	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.717	0.53	1.8	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.394	0.5	2	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.984	0.67	2.2	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.36	0.82	2.6	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.35	0.489	1.5	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.29	1.06	2.44	—	pCi/L	Y	—	NQ	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.627	0.72	2.8	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.6	0.85	2.3	—	pCi/L	Y	—	NQ	11-2662	CAPU-11-13932	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.56	0.76	2.3	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.56	0.97	2.9	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.2	—	—	0.45	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.45	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.3	—	—	0.45	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.2	—	—	0.45	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.56	—	—	0.11	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.58	—	—	0.11	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.44	—	—	0.11	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.33	—	—	0.11	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.42	—	—	0.11	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.49	—	—	0.11	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.165	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.165	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.32	—	—	0.17	µg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.28	—	—	0.17	µg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.17	µg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.4	—	—	0.17	µg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.45	2.4	6.83	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.51	2.16	7.33	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.96	2.6	8.7	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.31	2.7	9.2	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	12/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.285	2.3	7.7	—	pCi/L	Y	U	U	11-849	CAPU-11-2230	GELC
R-3	974.5	12/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.13	3.9	12	—	pCi/L	Y	U	U	11-849	CAPU-11-2232	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.804	—	—	0.5	µg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.53	—	—	0.5	µg/L	Y	J	J	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.659	—	—	0.5	µg/L	Y	J	J	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.54	—	—	0.017	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.52	—	—	0.085	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.534	—	—	0.1	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.454	—	—	0.05	mg/L	Y	—	J+	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.482	—	—	0.05	mg/L	Y	—	J+	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.63	—	—	0.05	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.52	—	—	0.05	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.548	—	—	0.05	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.491	—	—	0.05	µg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.517	—	—	0.05	µg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.529	—	—	0.05	µg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.55	—	—	0.05	µg/L	Y	—	J+	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00222	0.00384	0.0208	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00686	0.0511	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.002	0.035	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	2.73E-10	0.0046	0.028	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0045	0.0055	0.027	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00383	0.0033	0.024	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00222	0.00665	0.0437	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00396	0.0395	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00204	0.0061	0.05	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00229	0.004	0.042	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00675	0.0068	0.041	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00574	0.0043	0.036	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.34	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.56	—	—	0.05	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.57	—	—	0.05	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.3	—	—	0.05	mg/L	Y	—	J	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	J	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.56	—	—	0.05	mg/L	Y	—	J	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.5	19.2	40.7	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-9.44	14.2	55.9	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.4	16	56	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.79	19	67	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-7.2	16	59	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.7	20	49	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.3	—	—	0.053	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67	—	—	0.053	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63.7	—	—	0.053	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	61.7	—	—	0.053	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.9	—	—	0.053	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	61.4	—	—	0.053	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.7	—	—	0.1	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.9	—	—	0.1	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.2	—	—	0.1	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0334	1.07	3.93	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.891	1.15	3.93	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.74	1.3	3.8	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.635	1.5	5.2	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.392	1.3	4.2	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.341	1.6	5.3	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	185	—	—	1	µS/cm	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	186	—	—	1	µS/cm	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	190	—	—	1	µS/cm	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	194	—	—	1	µS/cm	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	192	—	—	1	µS/cm	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	198	—	—	1	µS/cm	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	107	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	111	—	—	1	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	107	—	—	1	µg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	104	—	—	1	µg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	106	—	—	1	µg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	105	—	—	1	µg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.406	0.142	0.459	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.105	0.108	0.406	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.113	0.14	0.48	—	pCi/L	Y	U	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.395	0.16	0.5	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.206	0.15	0.5	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.304	0.16	0.53	—	pCi/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.99	—	—	0.133	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.74	—	—	0.133	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.84	—	—	0.1	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.27	—	—	0.1	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.3	—	—	0.1	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.53	—	—	0.1	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	172	—	—	2.4	mg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	160	—	—	2.4	mg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	2.4	mg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.692	—	—	0.33	mg/L	Y	J	J	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.646	—	—	0.33	mg/L	Y	J	J	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.374	—	—	0.33	mg/L	Y	J	U	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2660	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2660	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1	—	—	0.067	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.969	—	—	0.067	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.11	—	—	0.067	µg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.05	—	—	0.067	µg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.02	—	—	0.067	µg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.1	—	—	0.067	µg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.57	0.0419	0.0655	—	pCi/L	Y	—	J	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.503	0.0419	0.0728	—	pCi/L	Y	—	J	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.705	0.066	0.053	—	pCi/L	Y	—	NQ	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.612	0.064	0.09	—	pCi/L	Y	—	NQ	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.613	0.064	0.09	—	pCi/L	Y	—	NQ	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.658	0.067	0.07	—	pCi/L	Y	—	NQ	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0221	0.0104	0.051	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0074	0.0117	0.0421	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0383	0.012	0.033	—	pCi/L	Y	—	NQ	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.008	0.051	—	pCi/L	Y	U	U	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00809	0.0057	0.052	—	pCi/L	Y	U	U	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0525	0.015	0.045	—	pCi/L	Y	—	NQ	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.301	0.0303	0.0418	—	pCi/L	Y	—	J	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.344	0.0337	0.0468	—	pCi/L	Y	—	J	12-1229	CAPU-12-12565	GELC
R-3	974.5	08/24/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.333	0.038	0.041	—	pCi/L	Y	—	NQ	11-3316	CAPU-11-26381	GELC
R-3	974.5	06/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.351	0.043	0.04	—	pCi/L	Y	—	NQ	11-2662	CAPU-11-13932	GELC
R-3	974.5	06/13/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.314	0.04	0.04	—	pCi/L	Y	—	NQ	11-2662	CAPU-11-13934	GELC
R-3	974.5	03/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.415	0.048	0.048	—	pCi/L	Y	—	NQ	11-1573	CAPU-11-5621	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.9	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13	—	—	1	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	08/24/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.7	—	—	1	µg/L	Y	—	NQ	11-3316	CAPU-11-26382	GELC
R-3	974.5	06/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.2	—	—	1	µg/L	Y	—	NQ	11-2661	CAPU-11-13933	GELC
R-3	974.5	06/13/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.4	—	—	1	µg/L	Y	—	NQ	11-2661	CAPU-11-13936	GELC
R-3	974.5	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.4	—	—	1	µg/L	Y	—	NQ	11-1573	CAPU-11-5622	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.73	—	—	0.01	SU	Y	H	J-	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.85	—	—	0.01	SU	Y	H	J-	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	5.81	—	—	0.01	SU	Y	H	J-	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.86	—	—	0.01	SU	Y	H	J-	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.88	—	—	0.01	SU	Y	H	J-	09-684	CAPU-09-1787	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	158	—	—	0.725	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	156	—	—	0.725	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	154	—	—	0.73	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	156	—	—	0.73	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	157	—	—	0.73	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	157	—	—	0.73	mg/L	Y	—	NQ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	157	—	—	0.73	mg/L	Y	—	NQ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00571	0.00902	0.0433	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00407	0.00288	0.0367	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0119	0.0063	0.034	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00995	0.0065	0.043	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00317	0.0025	0.034	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.018	0.014	0.052	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	100	—	—	1	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	105	—	—	1	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	98.2	—	—	1	µg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	98.8	—	—	1	µg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	104	—	—	1	µg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	96.6	—	—	1	µg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	101	—	—	15	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	101	—	—	15	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	94	—	—	15	µg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	94.2	—	—	15	µg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	97.7	—	—	15	µg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	84.6	—	—	10	µg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.148	—	—	0.067	mg/L	Y	J	J	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.16	—	—	0.067	mg/L	Y	J	J	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.178	—	—	0.066	mg/L	Y	J	J	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.195	—	—	0.066	mg/L	Y	J	J	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.196	—	—	0.066	mg/L	Y	J	J	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	UJ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	UJ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	60	—	—	0.05	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	59.5	—	—	0.05	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	58.1	—	—	0.05	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	55.4	—	—	0.05	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	57.8	—	—	0.05	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	59.1	—	—	0.03	mg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.31	1.27	4.58	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.92	1.31	4.01	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.07	1.9	6	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.36	1.5	4.4	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.12	1.6	5.1	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.35	0.98	3.7	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.1	—	—	0.67	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	42.3	—	—	0.67	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	41.4	—	—	1.3	mg/L	Y	—	J+	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	37.6	—	—	0.33	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	37.7	—	—	0.33	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	38	—	—	0.33	mg/L	Y	—	J+	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	36.7	—	—	0.33	mg/L	Y	—	J+	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.85	0.823	4.14	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.553	0.947	3.67	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.319	1.9	6.2	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0553	1.2	3.9	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.681	1.7	5.7	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.31	1.2	4.8	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.351	—	—	0.033	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.334	—	—	0.033	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.329	—	—	0.033	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.356	—	—	0.033	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.321	—	—	0.033	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.34	—	—	0.033	mg/L	Y	—	NQ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.338	—	—	0.033	mg/L	Y	—	NQ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.62	1.46	2.71	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.3	1.44	2.9	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.36	1.4	2.9	—	pCi/L	Y	—	NQ	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.4	1.6	3.2	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	4.56	1.7	4.5	—	pCi/L	Y	—	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	07/20/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	7.36	1.73	2.53	—	pCi/L	Y	—	J	190068	GU070700G3iR01	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.44	0.681	2	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10.3	1.3	2.54	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.79	1.3	2.4	—	pCi/L	Y	—	NQ	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.85	1.4	3.4	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	7.31	1.4	3.2	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11235	GELC
R-3i	215.2	07/20/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.31	0.857	2.03	—	pCi/L	Y	—	J	190068	GU070700G3iR01	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	219	—	—	0.453	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	217	—	—	0.453	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	213	—	—	0.45	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	202	—	—	0.35	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	209	—	—	0.35	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	211	—	—	0.35	mg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	16.8	—	—	0.11	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	16.6	—	—	0.11	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	16.4	—	—	0.11	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	15.5	—	—	0.085	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	15.8	—	—	0.085	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	15.4	—	—	0.085	mg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13	—	—	0.165	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.921	—	—	0.165	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.18	—	—	0.17	µg/L	Y	—	U	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.96	—	—	0.1	µg/L	Y	—	U	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.915	—	—	0.1	µg/L	Y	—	U	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.92	—	—	0.1	µg/L	Y	—	J	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.881	2.56	8.69	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.52	2.12	7.61	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.949	3.2	11	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	22	13	40	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	11.1	14	45	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.11	10	30	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.56	—	—	0.5	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.24	—	—	0.5	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.54	—	—	0.5	µg/L	Y	—	J	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.56	—	—	0.5	µg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.41	—	—	0.5	µg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.9	—	—	0.5	µg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.35	—	—	0.085	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.83	—	—	0.425	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	5.1	—	—	0.05	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	5.65	—	—	0.5	mg/L	Y	—	J-	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	7.65	—	—	0.25	mg/L	Y	—	J-	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.35	—	—	0.1	mg/L	Y	—	J-	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.43	—	—	0.1	mg/L	Y	—	J-	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.2	—	—	0.25	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.3	—	—	0.25	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.41	—	—	0.25	µg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	3.23	—	—	0.25	µg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	3.45	—	—	0.25	µg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.69	—	—	0.2	µg/L	Y	—	NQ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.82	—	—	0.2	µg/L	Y	—	NQ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00901	0.00712	0.0211	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.004	0.0049	0.0365	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0018	0.022	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0102	0.005	0.033	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00437	0.0038	0.035	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.003	0.0067	0.045	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00675	0.00928	0.0443	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.004	0.00566	0.0282	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00533	0.0073	0.033	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00204	0.0046	0.04	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00218	0.0038	0.043	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.006	0.052	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.08	—	—	0.05	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.09	—	—	0.05	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.06	—	—	0.05	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.76	—	—	0.05	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	5.91	—	—	0.05	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.14	—	—	0.05	mg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	34.5	17.8	56.9	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.9	19.1	37.5	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.556	20	64	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.72	16	55	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-4.08	20	65	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.07	15	55	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.3	—	—	0.053	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	52.2	—	—	0.053	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.5	—	—	0.053	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	49.5	—	—	0.053	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	52.5	—	—	0.053	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.8	—	—	0.032	mg/L	Y	—	NQ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	49.2	—	—	0.032	mg/L	Y	—	NQ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.7	—	—	0.1	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.4	—	—	0.1	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18	—	—	0.1	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.9	—	—	0.1	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.7	—	—	0.045	mg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.71	1.5	5.39	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.35	1.01	3.4	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.819	1.8	5.8	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-4.59	1.5	3.7	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.6	1.5	4.5	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.42	1.3	4.5	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	542	—	—	1	µS/cm	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	542	—	—	1	µS/cm	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	541	—	—	1	µS/cm	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	525	—	—	1	µS/cm	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	527	—	—	1	µS/cm	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	495	—	—	1	µS/cm	Y	—	NQ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	500	—	—	1	µS/cm	Y	—	NQ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	280	—	—	1	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	287	—	—	1	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	281	—	—	1	µg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	273	—	—	1	µg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	265	—	—	1	µg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	255	—	—	1	µg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.272	0.147	0.481	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.144	0.136	0.455	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00273	0.064	0.23	—	pCi/L	Y	U	U	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.117	0.13	0.46	—	pCi/L	Y	U	U	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.162	0.13	0.43	—	pCi/L	Y	U	U	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0263	0.057	0.19	—	pCi/L	Y	U	U	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.2	—	—	1.33	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	29	—	—	0.133	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	29.5	—	—	0.1	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.5	—	—	0.1	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.4	—	—	0.1	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	23.2	—	—	0.1	mg/L	Y	—	NQ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	23.1	—	—	0.1	mg/L	Y	—	NQ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	329	—	—	3.4	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	300	—	—	3.4	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	319	—	—	2.4	mg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	326	—	—	2.4	mg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	332	—	—	2.4	mg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	01/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	318	—	—	2.4	mg/L	Y	—	NQ	09-684	CAPU-09-1783	GELC
R-3i	215.2	01/20/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	310	—	—	2.4	mg/L	Y	—	NQ	09-684	CAPU-09-1787	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.26	—	—	0.33	mg/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.35	—	—	0.33	mg/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.06	—	—	0.33	mg/L	Y	—	NQ	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.827	—	—	0.33	mg/L	Y	J	J	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.948	—	—	0.33	mg/L	Y	J	J	09-2716	CAPU-09-11235	GELC
R-3i	215.2	01/20/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.3	—	—	0.33	mg/L	Y	—	NQ	09-683	CAPU-09-1784	GELC
R-3i	215.2	01/20/09	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.4	—	—	0.33	mg/L	Y	—	NQ	09-683	CAPU-09-1786	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	8.25	—	—	0.067	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	9.25	—	—	0.067	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	9.71	—	—	0.067	µg/L	Y	—	NQ	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	9.65	—	—	0.05	µg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	9.46	—	—	0.05	µg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	10.2	—	—	0.05	µg/L	Y	—	NQ	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.35	0.103	0.0539	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.3	0.0968	0.0524	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.15	0.31	0.054	—	pCi/L	Y	—	NQ	11-1728	CAPU-11-5287	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.62	0.38	0.17	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.31	0.36	0.17	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.38	0.29	0.1	—	pCi/L	Y	—	NQ	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.203	0.0252	0.0419	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.133	0.0203	0.0302	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.133	0.022	0.034	—	pCi/L	Y	—	NQ	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.137	0.031	0.082	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.206	0.04	0.087	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.139	0.026	0.054	—	pCi/L	Y	—	NQ	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.74	0.0822	0.0344	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.88	0.0793	0.0337	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.84	0.22	0.037	—	pCi/L	Y	—	NQ	11-1728	CAPU-11-5287	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	3	0.26	0.083	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11231	GELC
R-3i	215.2	07/22/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	3.04	0.26	0.087	—	pCi/L	Y	—	NQ	09-2716	CAPU-09-11235	GELC
R-3i	215.2	09/03/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.91	0.2	0.053	—	pCi/L	Y	—	NQ	08-1836	CAPU-08-14785	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.69	—	—	1	µg/L	Y	J	J	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.35	—	—	1	µg/L	Y	J	J	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.86	—	—	1	µg/L	Y	J	J	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.31	—	—	1	µg/L	Y	J	J	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.11	—	—	1	µg/L	Y	J	J	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.3	—	—	1	µg/L	Y	J	J	08-1836	CAPU-08-14783	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.57	—	—	3.3	µg/L	Y	J	J	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.64	—	—	3.3	µg/L	Y	J	J	12-1225	CAPU-12-12574	GELC
R-3i	215.2	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.93	—	—	3.3	µg/L	Y	J	J	11-1728	CAPU-11-5288	GELC
R-3i	215.2	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	49.7	—	—	3.3	µg/L	Y	—	NQ	09-2716	CAPU-09-11233	GELC
R-3i	215.2	07/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	23.6	—	—	3.3	µg/L	Y	—	NQ	09-2716	CAPU-09-11234	GELC
R-3i	215.2	09/03/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	85.1	—	—	2	µg/L	Y	—	J	08-1836	CAPU-08-14783	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	J-	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	J-	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	J-	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	J-	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	J-	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.2	—	—	0.725	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.8	—	—	0.725	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.73	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.1	—	—	0.73	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.5	—	—	0.73	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.8	—	—	0.73	mg/L	Y	—	NQ	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.1	—	—	0.73	mg/L	Y	—	NQ	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00629	0.00629	0.0478	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00601	0.00601	0.0361	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-9.51E-10	0.0049	0.028	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0245	0.014	0.041	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0161	0.018	0.046	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0034	0.0056	0.036	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00459	0.0035	0.037	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.75	—	—	1.7	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5.52	—	—	1.5	µg/L	Y	—	U	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	8.39	—	—	1.5	µg/L	Y	—	U	09-2673	CAPU-09-11267	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.9	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.7	—	—	1	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	34.3	—	—	1	µg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.2	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	35.6	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	34.2	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	34.3	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	25.3	—	—	15	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.9	—	—	15	µg/L	Y	J	J	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.4	—	—	15	µg/L	Y	J	J	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	27.4	—	—	15	µg/L	Y	J	J	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	27.5	—	—	15	µg/L	Y	J	J	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.7	—	—	10	µg/L	Y	J	J	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	22	—	—	10	µg/L	Y	J	J	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.8	—	—	0.05	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	N	J-	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17	—	—	0.05	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.8	—	—	0.05	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.4	—	—	0.03	mg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.8	—	—	0.03	mg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.225	1.28	4.78	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.42	1.58	6.02	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.43	1.3	4.8	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0243	1.4	4.5	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.747	1.5	5.1	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.365	1.9	4.1	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.41	1.3	3.8	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.33	—	—	0.067	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.35	—	—	0.067	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.74	—	—	0.066	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.63	—	—	0.066	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.66	—	—	0.066	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.29	—	—	0.066	mg/L	Y	—	NQ	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.37	—	—	0.066	mg/L	Y	—	NQ	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.16	—	—	2	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.49	—	—	2	µg/L	Y	J	J	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.19	—	—	2	µg/L	Y	J	J	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.53	—	—	2.5	µg/L	Y	J	J	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.96	—	—	2.5	µg/L	Y	J	J	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.2	—	—	1.5	µg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5	—	—	1.5	µg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.601	1.3	4.74	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.28	1.68	5.92	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.27	1.4	5.2	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.14	1.5	4.1	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.578	1.6	5.3	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.591	0.87	2.6	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.13	1.4	4.4	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.706	—	—	0.033	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.711	—	—	0.033	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.623	—	—	0.033	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.769	—	—	0.033	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.751	—	—	0.033	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.685	—	—	0.033	mg/L	Y	—	J-	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.699	—	—	0.033	mg/L	Y	—	J-	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.56	0.903	2.82	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.84	0.665	2.33	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.132	0.6	2.8	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.46	0.6	1.8	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.33	0.44	1.6	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	07/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.552	0.557	2.1	—	pCi/L	Y	U	U	190028	GU070700G04R01	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.2	0.599	1.92	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.05	0.832	2.55	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.36	0.72	2.3	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.47	0.62	1.8	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.969	0.56	1.8	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	07/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.42	0.906	2.81	—	pCi/L	Y	U	U	190028	GU070700G04R01	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.4	—	—	0.453	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.4	—	—	0.453	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.3	—	—	0.45	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	56.3	—	—	0.35	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.8	—	—	0.35	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.6	—	—	0.35	mg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	59.8	—	—	0.35	mg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.62	—	—	0.11	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.74	—	—	0.11	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.43	—	—	0.11	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.39	—	—	0.085	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.5	—	—	0.085	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.7	—	—	0.085	mg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.74	—	—	0.085	mg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.83	—	—	0.165	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2	—	—	0.165	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.97	—	—	0.17	µg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.98	—	—	0.1	µg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.9	—	—	0.1	µg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.7	—	—	0.1	µg/L	Y	—	J	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.9	—	—	0.1	µg/L	Y	—	J	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.54	2.79	10.5	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.83	3.19	11.7	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.2	2.5	8.3	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.238	10	33	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	18.2	12	39	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-15.3	11	31	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-11.3	9.5	29	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.02	—	—	0.5	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.53	—	—	0.5	µg/L	Y	J	J	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.46	—	—	0.5	µg/L	Y	J	J	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.6	—	—	0.5	µg/L	Y	J	J	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.49	—	—	0.5	µg/L	Y	J	J	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.9	—	—	0.5	µg/L	Y	J	J	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.9	—	—	0.5	µg/L	Y	J	J	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.58	—	—	0.085	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.67	—	—	0.17	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.64	—	—	0.05	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.18	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.08	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.64	—	—	0.05	mg/L	Y	—	J-	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.6	—	—	0.05	mg/L	Y	—	J-	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.81	—	—	0.5	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.79	—	—	0.5	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.5	—	—	0.5	µg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.57	—	—	0.5	µg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.45	—	—	0.5	µg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.26	—	—	0.5	µg/L	Y	—	NQ	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.26	—	—	0.5	µg/L	Y	—	NQ	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00383	0.0253	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0075	0.00419	0.0342	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00774	0.0047	0.024	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-5.43E-10	0.0046	0.036	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00223	0.0092	0.036	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00497	0.0037	0.023	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00341	0.0042	0.024	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00811	0.00605	0.0533	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0113	0.00459	0.0265	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00387	0.0047	0.036	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0114	0.0056	0.045	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00223	0.0059	0.044	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00662	0.0033	0.028	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00681	0.0042	0.029	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.6	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.79	—	—	0.05	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.55	—	—	0.05	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.46	—	—	0.05	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.58	—	—	0.05	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.57	—	—	0.05	mg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.65	—	—	0.05	mg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.62	16.1	68.3	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.59	18	69.6	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.9	17	61	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18.7	16	48	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	9.87	18	64	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	37.9	16	60	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	9.24	17	50	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.8	—	—	0.053	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	J-	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.4	—	—	0.053	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.9	—	—	0.053	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78	—	—	0.053	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.2	—	—	0.032	mg/L	Y	—	NQ	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76	—	—	0.032	mg/L	Y	—	NQ	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.045	mg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.3	—	—	0.045	mg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.438	1.34	4.93	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.931	1.6	6.3	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.428	1.3	4.2	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.58	1.2	4.4	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.662	1.5	5.1	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.657	1.2	3.8	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.29	1.6	4.5	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	190	—	—	1	µS/cm	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	184	—	—	1	µS/cm	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	181	—	—	1	µS/cm	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	166	—	—	1	µS/cm	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	166	—	—	1	µS/cm	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	1	µS/cm	Y	—	NQ	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	1	µS/cm	Y	—	NQ	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	86.2	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	87	—	—	1	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.9	—	—	1	µg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	75	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	77.8	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	77.7	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	80.9	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.276	0.146	0.478	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0346	0.124	0.421	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.426	0.16	0.51	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.28	0.097	0.3	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.285	0.12	0.43	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.166	0.071	0.33	—	pCi/L	Y	U	U	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.122	0.098	0.38	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.12	—	—	0.133	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.04	—	—	0.133	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.74	—	—	0.1	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.62	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.6	—	—	0.1	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.32	—	—	0.1	mg/L	Y	—	NQ	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.39	—	—	0.1	mg/L	Y	—	NQ	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	3.4	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	2.4	mg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	164	—	—	2.4	mg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	172	—	—	2.4	mg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	01/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	2.4	mg/L	Y	—	NQ	09-714	CAPU-09-1799	GELC
R-4	792.9	01/22/09	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	2.4	mg/L	Y	—	NQ	09-714	CAPU-09-1802	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.68	—	—	0.33	mg/L	Y	J	J	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.768	—	—	0.33	mg/L	Y	J	J	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.548	—	—	0.33	mg/L	Y	J	J	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.392	—	—	0.33	mg/L	Y	J	J	09-2673	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.499	—	—	0.33	mg/L	Y	J	J	09-2673	CAPU-09-11266	GELC
R-4	792.9	01/22/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.804	—	—	0.33	mg/L	Y	J	J	09-714	CAPU-09-1800	GELC
R-4	792.9	01/22/09	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.997	—	—	0.33	mg/L	Y	J	J	09-714	CAPU-09-1801	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.835	—	—	0.067	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.696	—	—	0.067	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.668	—	—	0.067	µg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.668	—	—	0.05	µg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.596	—	—	0.05	µg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.73	—	—	0.05	µg/L	Y	—	NQ	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.77	—	—	0.05	µg/L	Y	—	NQ	08-1777	CAPU-08-14794	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.618	0.0422	0.0617	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.511	0.0395	0.0639	—	pCi/L	Y	—	NQ	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.486	0.052	0.065	—	pCi/L	Y	—	NQ	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.375	0.052	0.16	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.466	0.063	0.19	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.496	0.041	0.059	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.483	0.04	0.057	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0139	0.0085	0.048	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00795	0.0369	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0375	0.012	0.042	—	pCi/L	Y	U	U	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00588	0.0094	0.08	—	pCi/L	Y	U	U	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00687	0.0069	0.093	—	pCi/L	Y	U	U	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.036	0.0095	0.031	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0144	0.0095	0.031	—	pCi/L	Y	U	U	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.219	0.0251	0.0394	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.205	0.0238	0.041	—	pCi/L	Y	—	NQ	12-1224	CAPU-12-12567	GELC
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.188	0.028	0.044	—	pCi/L	Y	—	NQ	11-1659	CAPU-11-5298	GELC
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.027	0.08	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11263	GELC
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.336	0.051	0.093	—	pCi/L	Y	—	NQ	09-2672	CAPU-09-11266	GELC
R-4	792.9	08/26/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.204	0.022	0.031	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14796	GELC
R-4	792.9	08/26/08	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.198	0.022	0.03	—	pCi/L	Y	—	NQ	08-1778	CAPU-08-14793	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.78	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.44	—	—	1	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.79	—	—	1	µg/L	Y	—	NQ	11-1659	CAPU-11-5300	GELC
R-4	792.9	07/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.08	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11264	GELC
R-4	792.9	07/16/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.41	—	—	1	µg/L	Y	—	NQ	09-2673	CAPU-09-11267	GELC
R-4	792.9	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	9.1	—	—	1	µg/L	Y	—	U	08-1777	CAPU-08-14799	GELC
R-4	792.9	08/26/08	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	11	—	—	1	µg/L	Y	—	U	08-1777	CAPU-08-14794	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.22	—	—	0.01	SU	Y	H	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.16	—	—	0.01	SU	Y	H	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.91	—	—	0.01	SU	Y	H	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.91	—	—	0.01	SU	Y	H	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.97	—	—	0.01	SU	Y	H	J-	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.11	—	—	0.01	SU	Y	H	J-	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.26	—	—	0.01	SU	Y	H	J-	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.12	—	—	0.01	SU	Y	H	J-	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.13	—	—	0.01	SU	Y	H	J-	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.7	—	—	0.725	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.8	—	—	0.725	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.8	—	—	0.725	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.8	—	—	0.725	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.6	—	—	0.73	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.6	—	—	0.73	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.5	—	—	0.73	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	73.2	—	—	0.73	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.6	—	—	0.73	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00292	0.00772	0.0443	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0214	0.0692	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	9.22E-10	0.00452	0.0332	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	1.03E-09	0.00506	0.0372	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0093	0.045	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00848	0.0074	0.028	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00269	0.006	0.028	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0146	0.0067	0.023	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00337	0.0041	0.024	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	4.72	—	—	1.7	µg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.84	—	—	1.7	µg/L	Y	J	J	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	7.39	—	—	1.7	µg/L	Y	—	U	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.4	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	65	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.2	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	61	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	65.7	—	—	1	µg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	64.7	—	—	1	µg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.7	—	—	1	µg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	61.3	—	—	1	µg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.1	—	—	1	µg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	157	—	—	15	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	164	—	—	15	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	174	—	—	15	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	168	—	—	15	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	178	—	—	15	µg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	176	—	—	15	µg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	173	—	—	15	µg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	193	—	—	15	µg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	195	—	—	15	µg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0802	—	—	0.067	mg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0987	—	—	0.067	mg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0807	—	—	0.067	mg/L	Y	J	J	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0857	—	—	0.067	mg/L	Y	J	J	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.131	—	—	0.066	mg/L	Y	J	J	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.116	—	—	0.066	mg/L	Y	J	J	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0931	—	—	0.066	mg/L	Y	J	J	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.131	—	—	0.066	mg/L	Y	J	J	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	37.2	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.8	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	37.1	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	36.3	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	43.3	—	—	0.05	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	42.3	—	—	0.05	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	39.4	—	—	0.05	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.1	—	—	0.05	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.6	—	—	0.05	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.08	1.4	4.75	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	Y	11.7	2.77	4.32	—	pCi/L	N	—	R	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	06/06/13	WG	UF	RE	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.55	1.55	5.86	—	pCi/L	Y	U	U	2013-935-1	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.296	0.688	2.38	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.142	1.01	3.55	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.16	1.8	5.8	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.29	1.5	4.9	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.97	1.7	4.7	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.734	1.5	5.1	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.309	1.8	5.9	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	40.2	—	—	0.67	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	41.1	—	—	0.67	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	50.8	—	—	0.335	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	48.7	—	—	0.335	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.7	—	—	0.33	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.7	—	—	0.33	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	43.3	—	—	0.66	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	47.8	—	—	0.33	mg/L	Y	—	J+	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	48.2	—	—	0.33	mg/L	Y	—	J+	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.23	—	—	2	µg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.55	—	—	2	µg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.2	1.21	5.63	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.55	1.37	4.89	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.04	0.762	2.99	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.069	0.955	3.45	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.66	1.7	4.6	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.08	1.5	5.9	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.72	1.8	5	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.26	1.2	3.6	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.17	2.4	6.5	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.54	—	—	3	µg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.88	—	—	3	µg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.16	—	—	0.033	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.17	—	—	0.033	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.198	—	—	0.033	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.206	—	—	0.033	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.21	—	—	0.033	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.21	—	—	0.033	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.184	—	—	0.033	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.219	—	—	0.033	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.213	—	—	0.033	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.604	0.757	2.99	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.113	0.442	2.07	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.47	0.993	2.6	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.34	0.658	2.84	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.505	0.31	1	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0133	0.22	0.83	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0487	0.47	2.4	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.183	0.45	2.2	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.00303	0.57	2.8	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.48	0.603	1.92	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.78	0.516	1.62	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.78	0.823	2.29	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.02	0.608	1.99	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.13	0.87	2.9	—	pCi/L	Y	U	UJ	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.88	1.1	3.4	—	pCi/L	Y	U	UJ	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.83	0.94	3	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.1	1.1	3	—	pCi/L	Y	—	NQ	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.85	0.9	2.9	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	121	—	—	0.453	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	126	—	—	0.453	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	122	—	—	0.453	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	119	—	—	0.453	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	137	—	—	0.45	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	135	—	—	0.45	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	129	—	—	0.45	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	125	—	—	0.45	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	127	—	—	0.45	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.83	—	—	0.11	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.1	—	—	0.11	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.04	—	—	0.11	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.91	—	—	0.11	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.14	—	—	0.11	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.04	—	—	0.11	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.49	—	—	0.11	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.22	—	—	0.11	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.36	—	—	0.11	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.03	—	—	2	µg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.94	—	—	2	µg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.908	—	—	0.165	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.77	—	—	0.17	µg/L	Y	—	J	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.74	—	—	0.17	µg/L	Y	—	J	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.55	—	—	0.17	µg/L	Y	—	J	11-2707	CAPU-11-13929	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.99	—	—	0.17	µg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.07	—	—	0.17	µg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.49	2.75	9.91	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.355	3.17	9.55	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.6	1.44	4.97	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.54	1.91	6.19	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.49	3.2	11	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.165	3.4	11	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.57	2.7	9.3	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.36	3.4	12	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	12/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.219	2.8	9	—	pCi/L	Y	U	U	11-887	CAPU-11-2225	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	20.1	—	—	0.5	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	19.4	—	—	0.5	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	10.6	—	—	0.5	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.99	—	—	0.5	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.6	—	—	0.5	µg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.63	—	—	0.5	µg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.01	—	—	0.5	µg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.46	—	—	0.5	µg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.61	—	—	0.5	µg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.78	—	—	0.085	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.84	—	—	0.085	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.91	—	—	0.17	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.78	—	—	0.17	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.15	—	—	0.1	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.14	—	—	0.1	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.8	—	—	0.1	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.95	—	—	0.05	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.36	—	—	0.05	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.475	—	—	0.05	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.495	—	—	0.05	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.524	—	—	0.05	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.518	—	—	0.05	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.509	—	—	0.05	µg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.487	—	—	0.05	µg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.482	—	—	0.05	µg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.515	—	—	0.05	µg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.489	—	—	0.05	µg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00474	0.00474	0.0222	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0105	0.00632	0.0197	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.000835	0.00392	0.0455	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00208	0.00806	0.038	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00505	0.0062	0.026	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00254	0.0044	0.026	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00531	0.004	0.022	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0099	0.0066	0.025	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00422	0.003	0.026	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0118	0.00854	0.0467	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0211	0.00894	0.0415	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00928	0.00464	0.035	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0167	0.00721	0.0294	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-1.2E-09	0.008	0.048	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0152	0.0063	0.048	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0142	0.0071	0.032	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0139	0.0053	0.037	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00422	0.0042	0.039	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.17	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.25	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.34	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.3	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.21	—	—	0.05	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.43	—	—	0.05	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.47	—	—	0.05	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.48	—	—	0.05	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-31.3	14.8	54.7	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-6.66	17.9	64.6	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.16	13.1	24.6	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	13	11.3	42.6	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-3.48	21	75	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-35.1	19	59	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	45.6	21	82	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.8	15	54	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	13.9	27	94	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.4	—	—	0.053	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.5	—	—	0.053	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.5	—	—	0.053	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.2	—	—	0.053	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.8	—	—	0.053	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.2	—	—	0.053	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70	—	—	0.053	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.5	—	—	0.1	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.2	—	—	0.1	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24	—	—	0.1	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.6	—	—	0.1	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.9	—	—	0.1	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.7	—	—	0.1	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.3	—	—	0.1	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.8	—	—	0.1	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.1	—	—	0.1	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.3	1.41	5.41	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.7	1.09	4.79	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.691	0.684	2.56	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.365	1.11	3.9	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.29	1.4	5.1	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.559	1.4	5	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.61	2	6.3	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.466	1.2	3.9	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.02	1.7	5	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	385	—	—	1	µS/cm	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	384	—	—	1	µS/cm	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	381	—	—	1	µS/cm	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	382	—	—	1	µS/cm	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	375	—	—	1	µS/cm	Y	—	NQ	11-3367	CAPU-11-26375	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	373	—	—	1	µS/cm	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	371	—	—	1	µS/cm	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	388	—	—	1	µS/cm	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	387	—	—	1	µS/cm	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	196	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	204	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	208	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	205	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	230	—	—	1	µg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	224	—	—	1	µg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	212	—	—	1	µg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	210	—	—	1	µg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	214	—	—	1	µg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0632	0.14	0.495	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0317	0.136	0.482	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0832	0.115	0.396	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.377	0.134	0.427	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.118	0.14	0.5	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00473	0.14	0.49	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0494	0.13	0.47	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.107	0.14	0.5	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0482	0.14	0.49	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	22.1	—	—	1.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	22.7	—	—	1.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	24.6	—	—	0.133	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.9	—	—	0.133	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	24.2	—	—	0.1	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	24.2	—	—	0.1	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	24	—	—	0.1	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.9	—	—	0.1	mg/L	Y	—	J+	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.9	—	—	0.1	mg/L	Y	—	J+	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	296	—	—	3.4	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	281	—	—	3.4	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	249	—	—	3.4	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	253	—	—	3.4	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	274	—	—	3.4	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	267	—	—	3.4	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	289	—	—	2.4	mg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	299	—	—	2.4	mg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	292	—	—	2.4	mg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0576	—	—	0.033	mg/L	Y	J	J	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.119	—	—	0.035	mg/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0763	—	—	0.035	mg/L	Y	J	J	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0844	—	—	0.035	mg/L	Y	J	J-	11-3366	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0437	—	—	0.035	mg/L	Y	J	J-	11-3366	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.067	—	—	0.033	mg/L	Y	J	J-	11-1630	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.046	—	—	0.033	mg/L	Y	J	J-	11-1630	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.53	—	—	0.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.47	—	—	0.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1.56	—	—	0.33	mg/L	Y	—	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1.6	—	—	0.33	mg/L	Y	—	U	12-1232	CAPU-12-12579	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.21	—	—	0.33	mg/L	Y	—	NQ	11-3366	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.51	—	—	0.33	mg/L	Y	—	NQ	11-3366	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1.19	—	—	0.33	mg/L	Y	—	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.68	—	—	0.33	mg/L	Y	—	NQ	11-1630	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.79	—	—	0.33	mg/L	Y	—	NQ	11-1630	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.217	—	—	0.017	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.233	—	—	0.017	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.302	—	—	0.017	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.321	—	—	0.017	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.298	—	—	0.015	mg/L	Y	—	NQ	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.309	—	—	0.015	mg/L	Y	—	NQ	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.289	—	—	0.015	mg/L	Y	—	J	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.304	—	—	0.015	mg/L	Y	—	J	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.309	—	—	0.015	mg/L	Y	—	J	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	188	54.4	174	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	203	55.5	177	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	352	60.6	152	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	334	59.7	151	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	433.168	66.2092	192.524	—	pCi/L	Y	—	U	11-3368	CAPU-11-26374	ARSL
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	N	486.105	67.7883	192.752	—	pCi/L	Y	—	U	11-3368	CAPU-11-26377	ARSL
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	247.779	37.2876	2.8014	—	pCi/L	Y	—	NQ	11-2732	CAPU-11-13928	ARSL
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	153.845	74.5587	243.137	—	pCi/L	Y	U	U	11-1655	CAPU-11-5308	ARSL
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	359.44	77.5799	242.372	—	pCi/L	Y	—	NQ	11-1655	CAPU-11-5311	ARSL
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.261	—	—	0.067	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.27	—	—	0.067	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.222	—	—	0.067	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.227	—	—	0.067	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.324	—	—	0.067	µg/L	Y	—	U	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	N	0.335	—	—	0.067	µg/L	Y	—	U	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.261	—	—	0.067	µg/L	Y	—	NQ	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.247	—	—	0.067	µg/L	Y	—	NQ	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.252	—	—	0.067	µg/L	Y	—	NQ	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.181	0.0214	0.0492	—	pCi/L	Y	—	J	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.202	0.0231	0.0521	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.196	0.0293	0.0856	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.174	0.0287	0.0809	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.204	0.027	0.042	—	pCi/L	Y	—	NQ	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.211	0.026	0.038	—	pCi/L	Y	—	NQ	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.198	0.027	0.072	—	pCi/L	Y	—	NQ	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.198	0.025	0.042	—	pCi/L	Y	—	NQ	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.175	0.022	0.039	—	pCi/L	Y	—	NQ	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0138	0.00831	0.0383	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0205	0.0088	0.0406	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00435	0.00615	0.0494	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00411	0.0109	0.0467	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0173	0.01	0.031	—	pCi/L	Y	U	U	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0154	0.0064	0.027	—	pCi/L	Y	U	U	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00645	0.0079	0.041	—	pCi/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00722	0.0042	0.027	—	pCi/L	Y	U	U	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.009	0.0045	0.025	—	pCi/L	Y	U	U	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0829	0.0147	0.0314	—	pCi/L	Y	—	J	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.083	0.0148	0.0333	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0809	0.0176	0.055	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.106	0.0194	0.052	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0958	0.018	0.037	—	pCi/L	Y	—	NQ	11-3354	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0726	0.014	0.032	—	pCi/L	Y	—	NQ	11-3354	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.115	0.02	0.032	—	pCi/L	Y	—	NQ	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0817	0.015	0.028	—	pCi/L	Y	—	NQ	11-1631	CAPU-11-5308	GELC
TW-2Ar	102	03/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0764	0.014	0.026	—	pCi/L	Y	—	NQ	11-1631	CAPU-11-5311	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.41	—	—	1	µg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.07	—	—	1	µg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.43	—	—	1	µg/L	Y	J	J	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.61	—	—	1	µg/L	Y	J	J	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.16	—	—	1	µg/L	Y	J	J	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.93	—	—	1	µg/L	Y	J	J	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.16	—	—	1	µg/L	Y	J	J	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	2.13	—	—	1	µg/L	Y	J	U	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	2.3	—	—	1	µg/L	Y	J	U	11-1631	CAPU-11-5312	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.42	—	—	3.3	µg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.95	—	—	3.3	µg/L	Y	J	J	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.78	—	—	3.3	µg/L	Y	J	J	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-3367	CAPU-11-26375	GELC
TW-2Ar	102	08/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.94	—	—	3.3	µg/L	Y	J	J	11-3367	CAPU-11-26378	GELC
TW-2Ar	102	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.86	—	—	3.3	µg/L	Y	J	J	11-2707	CAPU-11-13929	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.99	—	—	3.3	µg/L	Y	J	J	11-1631	CAPU-11-5309	GELC
TW-2Ar	102	03/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.52	—	—	3.3	µg/L	Y	J	J	11-1631	CAPU-11-5312	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.7	—	—	0.01	SU	Y	H	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.44	—	—	0.01	SU	Y	H	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.58	—	—	0.01	SU	Y	H	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.47	—	—	0.01	SU	Y	H	J-	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	—	—	0.01	SU	Y	H	J-	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.3	—	—	0.725	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.5	—	—	0.725	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.5	—	—	0.725	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.9	—	—	0.73	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.9	—	—	0.73	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00284	0.00492	0.0432	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00758	0.0297	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00612	0.0079	0.037	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0132	0.005	0.014	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	47.8	—	—	1	µg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	49.9	—	—	1	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	51.7	—	—	1	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	54.1	—	—	1	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	50.1	—	—	1	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.7	—	—	15	µg/L	Y	J	J	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	37.9	—	—	15	µg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	38.3	—	—	15	µg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	52.6	—	—	15	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	33.7	—	—	15	µg/L	Y	J	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.142	—	—	0.067	mg/L	Y	J	J	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.146	—	—	0.067	mg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.19	—	—	0.067	mg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.136	—	—	0.066	mg/L	Y	J	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.155	—	—	0.066	mg/L	Y	J	J	11-3080	CAWR-11-23214	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	27.9	—	—	0.05	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	30.4	—	—	0.05	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	28.4	—	—	0.05	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	29.2	—	—	0.05	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	29.9	—	—	0.05	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.92	0.955	3.66	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.633	1.58	5.86	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.59	1.7	5.7	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.485	2	6.4	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16	—	—	0.335	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.9	—	—	0.067	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.5	—	—	0.067	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	19.1	—	—	0.13	mg/L	Y	—	J+	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.6	—	—	0.066	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2	—	—	2	µg/L	Y	J	J	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.6	—	—	2	µg/L	Y	J	U	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.67	—	—	2	µg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.47	—	—	2	µg/L	Y	J	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.381	0.885	3.3	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.57	1.36	4.65	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0056	1.4	5.4	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.89	2.1	8	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.485	—	—	0.033	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.467	—	—	0.033	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.438	—	—	0.033	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.445	—	—	0.033	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.458	—	—	0.033	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.818	0.801	2.97	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.02	0.827	2.9	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.999	0.79	2.7	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.11	0.82	2.6	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.04	0.504	1.32	—	pCi/L	Y	—	NQ	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.15	0.979	2.92	—	pCi/L	Y	—	NQ	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.09	1.1	2.5	—	pCi/L	Y	—	NQ	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.31	1.1	2.9	—	pCi/L	Y	—	NQ	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	102	—	—	0.453	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	111	—	—	0.453	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	104	—	—	0.453	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	105	—	—	0.45	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	108	—	—	0.45	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.76	—	—	0.11	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.47	—	—	0.11	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.95	—	—	0.11	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.86	—	—	0.11	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.13	—	—	0.11	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.3	—	—	0.165	µg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.47	—	—	0.165	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.34	—	—	0.165	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.08	—	—	0.17	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.51	—	—	0.17	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.36	1.97	6.64	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.03	2.92	9.99	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.02	3.5	11	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.19	4.1	14	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.31	—	—	0.5	µg/L	Y	J	J	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.64	—	—	0.5	µg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.17	—	—	0.5	µg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.51	—	—	0.5	µg/L	Y	J	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.73	—	—	0.5	µg/L	Y	J	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.6	—	—	0.085	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.78	—	—	0.17	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.53	—	—	0.17	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.35	—	—	0.05	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.72	—	—	0.05	mg/L	Y	—	J	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.48	—	—	0.5	µg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.38	—	—	0.5	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.25	—	—	0.5	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.86	—	—	0.5	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.58	—	—	0.5	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-4.24E-10	0.00509	0.0238	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00593	0.00593	0.043	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00229	0.004	0.027	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0114	0.006	0.039	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0153	0.00881	0.0501	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00791	0.0074	0.033	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00686	0.0051	0.029	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00454	0.0056	0.056	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.66	—	—	0.05	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.23	—	—	0.05	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.43	—	—	0.05	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.76	—	—	0.05	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.59	—	—	0.05	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.19	14	48.3	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20	18.4	67.4	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.42	20	77	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.0819	27	100	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.68	—	—	1.5	µg/L	Y	J	J	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.72	—	—	1.5	µg/L	Y	J	J	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	2	—	—	1.5	µg/L	Y	J	J	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.59	—	—	1.5	µg/L	Y	J	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	42.4	—	—	0.053	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.9	—	—	0.053	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.3	—	—	0.053	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.1	—	—	0.053	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43.7	—	—	0.053	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.2	—	—	0.1	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.1	—	—	0.1	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.7	—	—	0.1	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.4	—	—	0.1	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.58	1.06	3.38	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.95	1.54	5.22	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.82	1.7	7.3	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.93	1.7	6.5	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	309	—	—	1	µS/cm	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	311	—	—	1	µS/cm	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	303	—	—	1	µS/cm	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	322	—	—	1	µS/cm	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	302	—	—	1	µS/cm	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	135	—	—	1	µg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	147	—	—	1	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	144	—	—	1	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	146	—	—	1	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	144	—	—	1	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00638	0.132	0.472	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.231	0.148	0.492	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0986	0.14	0.48	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.265	0.15	0.49	—	pCi/L	Y	U	U	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.3	—	—	0.665	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.4	—	—	0.133	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.2	—	—	0.133	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.6	—	—	0.1	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.7	—	—	0.1	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	3.4	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	197	—	—	3.4	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	210	—	—	3.4	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	207	—	—	3.4	mg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	183	—	—	3.4	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.959	—	—	0.33	mg/L	Y	J	J	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	12/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.777	—	—	0.33	mg/L	Y	J	J	2013-409	CALA-13-24549	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.19	—	—	0.33	mg/L	Y	—	NQ	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.3	—	—	0.33	mg/L	Y	—	NQ	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.728	—	—	0.33	mg/L	Y	J	J	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.317	—	—	0.017	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.259	—	—	0.017	mg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.363	—	—	0.017	mg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.438	—	—	0.015	mg/L	Y	—	J	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.382	—	—	0.015	mg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	55.25	8.44	2.7	—	pCi/L	Y	—	J-	2013-948	CALA-13-33427	ARSL
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	62.506	9.487	2.189	—	pCi/L	Y	—	NQ	12-1208	CALA-12-12546	ARSL
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	60.51	9.71	8.18	—	pCi/L	Y	—	NQ	12-511	CAWR-12-1756	ARSL
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	62.7256	9.499	2.1896	—	pCi/L	Y	—	NQ	11-3081	CAWR-11-23212	ARSL
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.06	—	—	0.067	µg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.16	—	—	0.067	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.74	—	—	0.067	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.39	—	—	0.067	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.76	—	—	0.067	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.977	0.0552	0.0665	—	pCi/L	Y	—	NQ	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.854	0.0487	0.0654	—	pCi/L	Y	—	J	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.782	0.069	0.059	—	pCi/L	Y	—	NQ	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.985	0.081	0.04	—	pCi/L	Y	—	NQ	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.015	0.00916	0.0517	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0399	0.0124	0.0378	—	pCi/L	Y	—	NQ	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00552	0.0078	0.033	—	pCi/L	Y	U	U	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0312	0.0096	0.025	—	pCi/L	Y	—	NQ	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.669	0.0454	0.0425	—	pCi/L	Y	—	NQ	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.548	0.0386	0.0421	—	pCi/L	Y	—	J	12-1209	CALA-12-12546	GELC

Table C-2 Los Alamos and Pueblo Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Vine Tree Spring	—	12/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.456	0.045	0.032	—	pCi/L	Y	—	NQ	12-500	CAWR-12-1756	GELC
Vine Tree Spring	—	08/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.519	0.048	0.031	—	pCi/L	Y	—	NQ	11-3080	CAWR-11-23212	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.63	—	—	1	µg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	12/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.4	—	—	1	µg/L	Y	—	NQ	2013-409	CALA-13-24550	GELC
Vine Tree Spring	—	04/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.51	—	—	1	µg/L	Y	—	NQ	12-1209	CALA-12-12551	GELC
Vine Tree Spring	—	12/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.26	—	—	1	µg/L	Y	—	NQ	12-500	CAWR-12-1757	GELC
Vine Tree Spring	—	08/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.48	—	—	1	µg/L	Y	—	NQ	11-3080	CAWR-11-23214	GELC

Appendix D

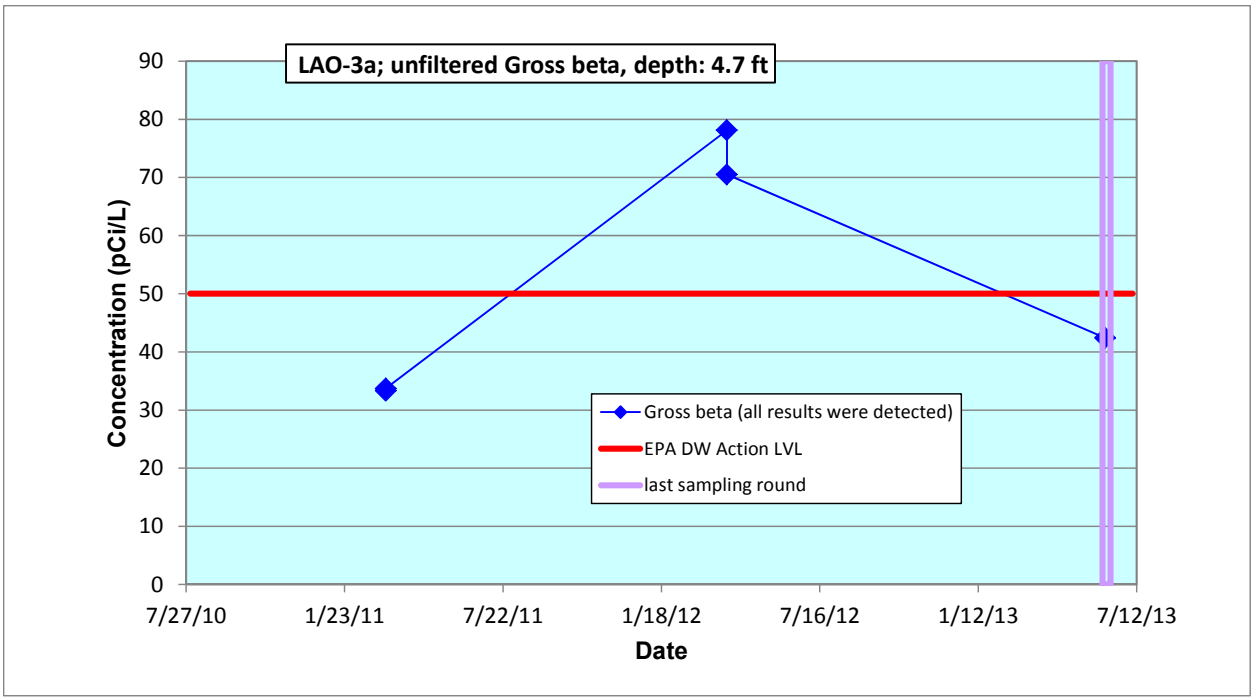
Groundwater Results Greater Than Half of Screening Levels

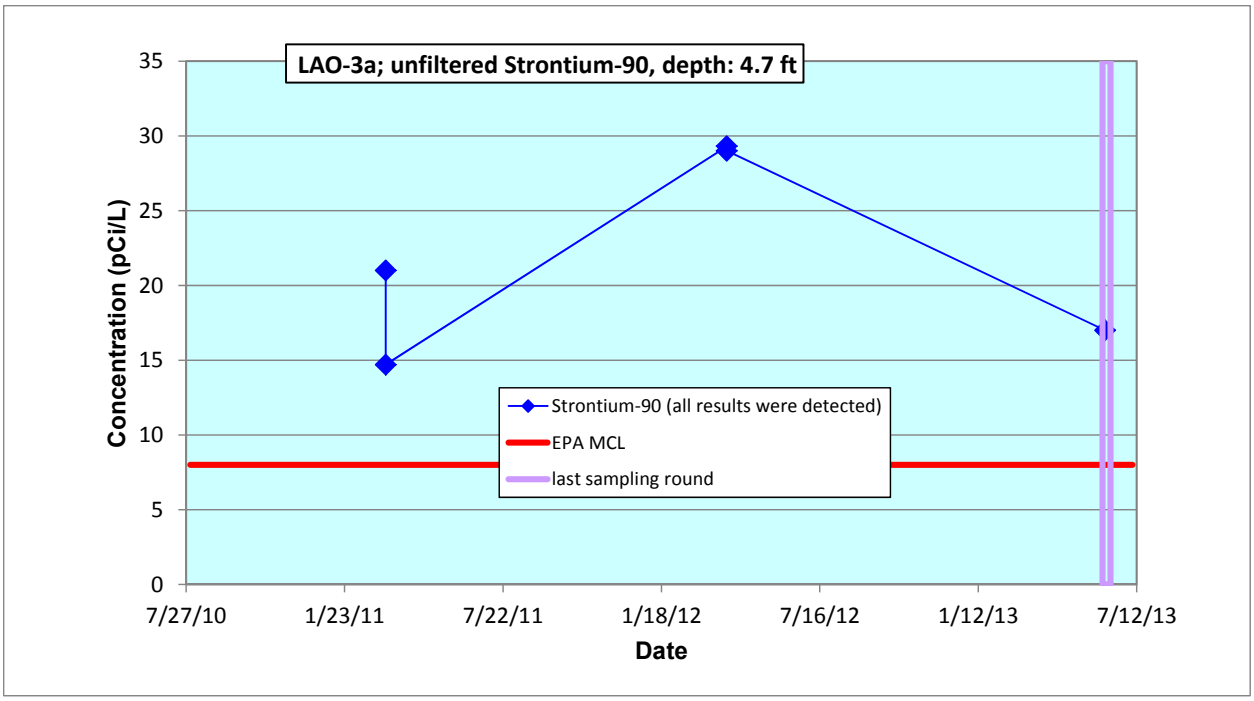
Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Uncertainty	Minimum Detectable Activity	Unit	Dilution Factor	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level Code	Result/Screening Level
Alluvial	APCO-1	4.7	06/05/13	Metals	Iron	Fe	F[a]	INIT[b]	REG[c]	Y[d]	522	30	—[e]	—	µg/L	1	NQ[f]	NQ	Y	SW-846:6010B	GELC[g]	1000	NMWQCC GW STD[h]	0.52
Alluvial	LAO-3a	4.7	06/06/13	Metals	Arsenic	As	F	INIT	REG	Y	5.2	1.7	—	—	µg/L	1	NQ	NQ	Y	SW-846:6020	GELC	10	EPA MCL[i]	0.52
Alluvial	LAO-3a	4.7	06/06/13	RAD[j]	Gross beta	GROSSB	UF[k]	INIT	REG	Y	42.4	—	0.919	1.7	pCi/L	1	NQ	NQ	Y	EPA:900	GELC	50	EPA DW action LVL[l]	0.85
Alluvial	LAO-3a	4.7	06/06/13	RAD	Strontium-90	Sr-90	UF	INIT	REG	Y	17	—	0.568	0.488	pCi/L	1	J[m]	R10[n]	Y	EPA:905.0	GELC	8	EPA MCL	2.13
Intermediate	R-3i	215.2	06/05/13	General Inorganic	Perchlorate	ClO4	F	INIT	REG	Y	2.2	0.25	—	—	µg/L	5	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	0.55
Intermediate Spring	Vine Tree Spring	—	12/12/12	General Inorganic	Perchlorate	ClO4	F	INIT	REG	Y	5.38	0.5	—	—	µg/L	10	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.35
Intermediate Spring	Vine Tree Spring	—	06/11/13	General Inorganic	Perchlorate	ClO4	F	INIT	REG	Y	5.48	0.5	—	—	µg/L	10	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.37
Regional	R-4	792.9	06/10/13	General Inorganic	Perchlorate	ClO4	F	INIT	REG	Y	4.81	0.5	—	—	µg/L	10	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.20

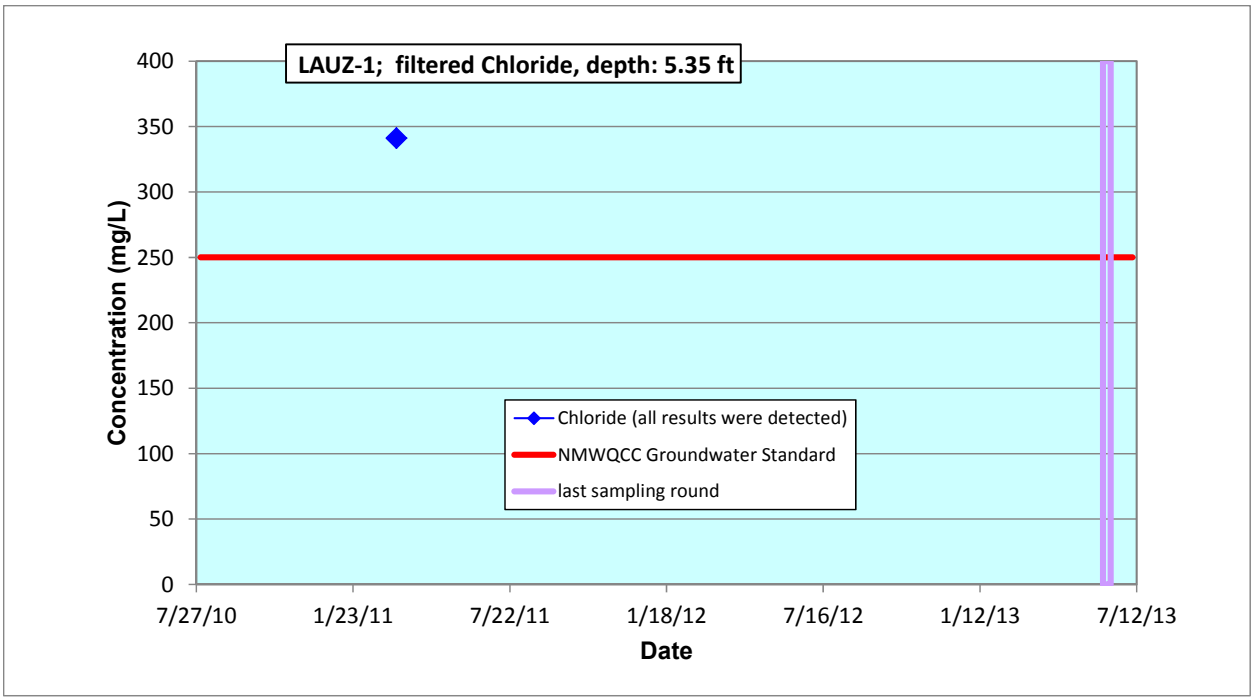
[a] F = Filtered.
[b] INIT = Initial.
[c] REG = Regular.
[d] Y = Yes.
[e] — = None.
[f] NQ = Not qualified.
[g] GELC = General Engineering Laboratories, Inc., Charleston, SC.
[h] NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.
[i] EPA MCL = U.S. Environmental Protection Agency maximum contaminant level.
[j] RAD = Radionuclides.
[k] UF = Unfiltered.
[l] EPA DW action LVL = U.S. Environmental Protection Agency drinking water action level.
[m] J = The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.
[n] R10 = Associated duplicate sample has duplicate error ratio or relative error ratio greater than the analytical laboratory's acceptance limits.

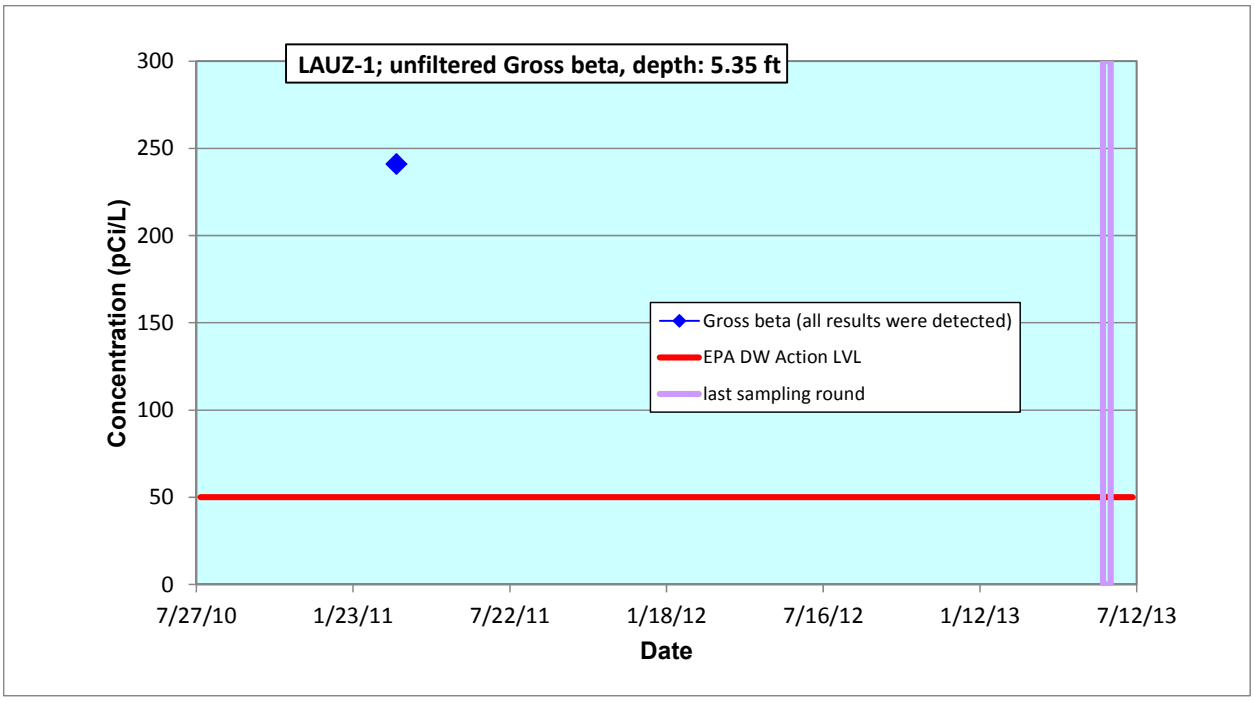
Appendix E

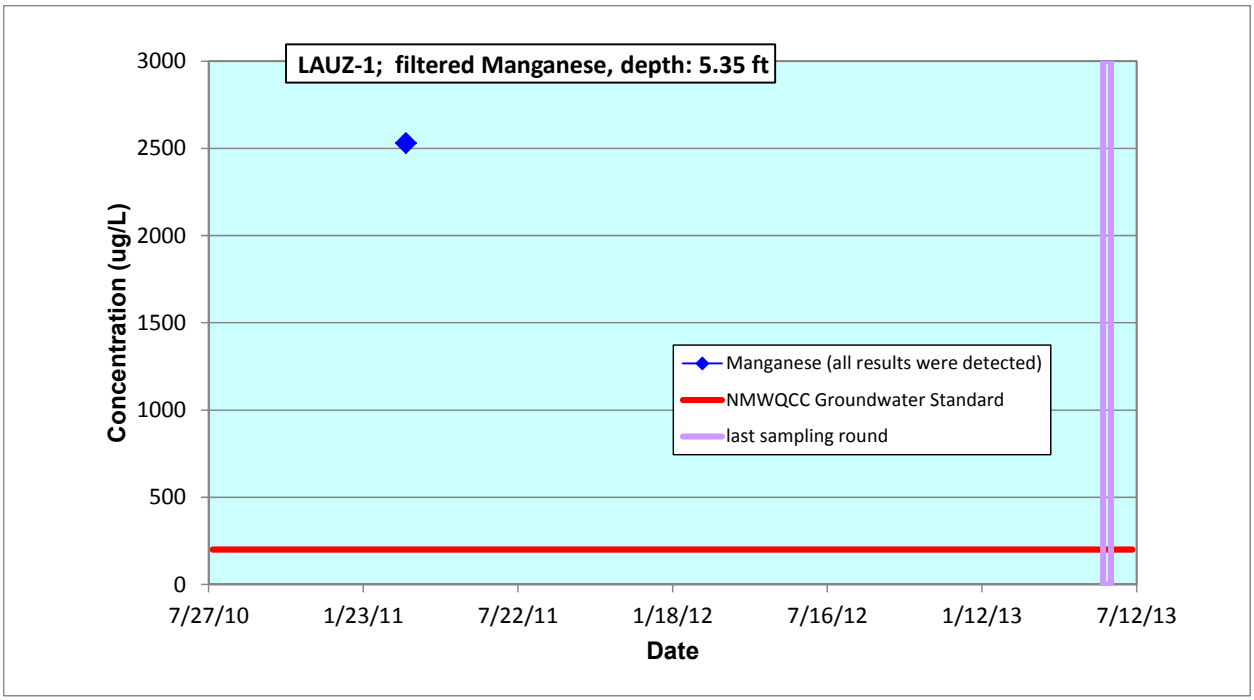
Analytical Chemistry Graphs of Screening-Level Exceedances

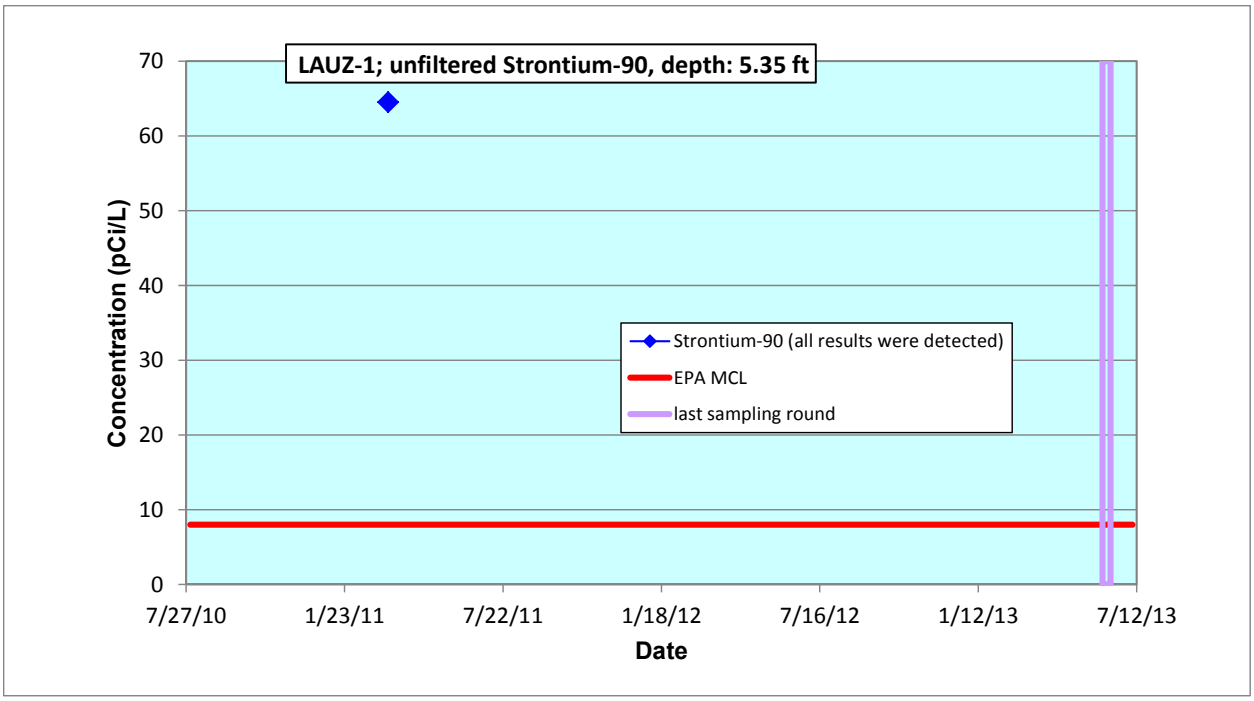

LAO-3a; unfiltered Gross beta, depth: 4.7 ft
Concentration (pCi/L)
90
80
70
60
50
40
30
20
10
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Gross beta (all results were detected)
EPA DW Action LVL
last sampling round

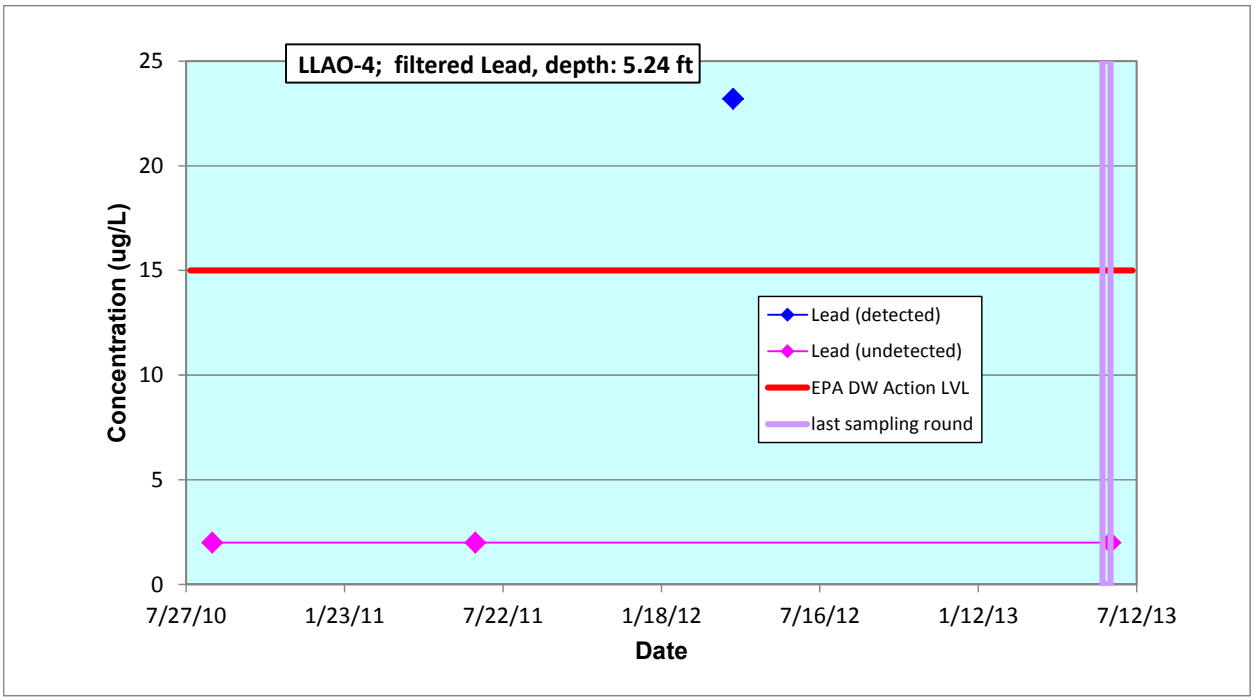

LAO-3a; unfiltered Strontium-90, depth: 4.7 ft
Concentration (pCi/L)
35
30
25
20
15
10
5
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Strontium-90 (all results were detected)
EPA MCL
last sampling round

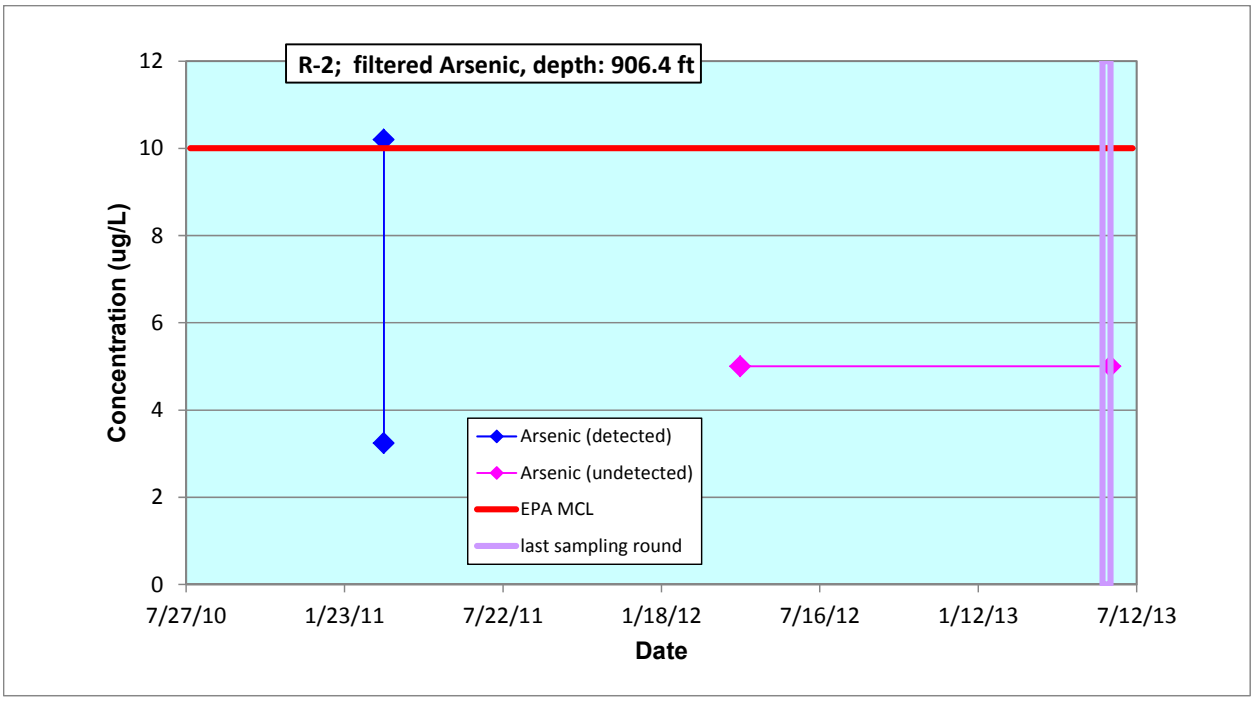

LAUZ-1; filtered Chloride, depth: 5.35 ft
Concentration (mg/L)
400
350
300
250
200
150
100
50
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Chloride (all results were detected)
NMWQCC Groundwater Standard
last sampling round

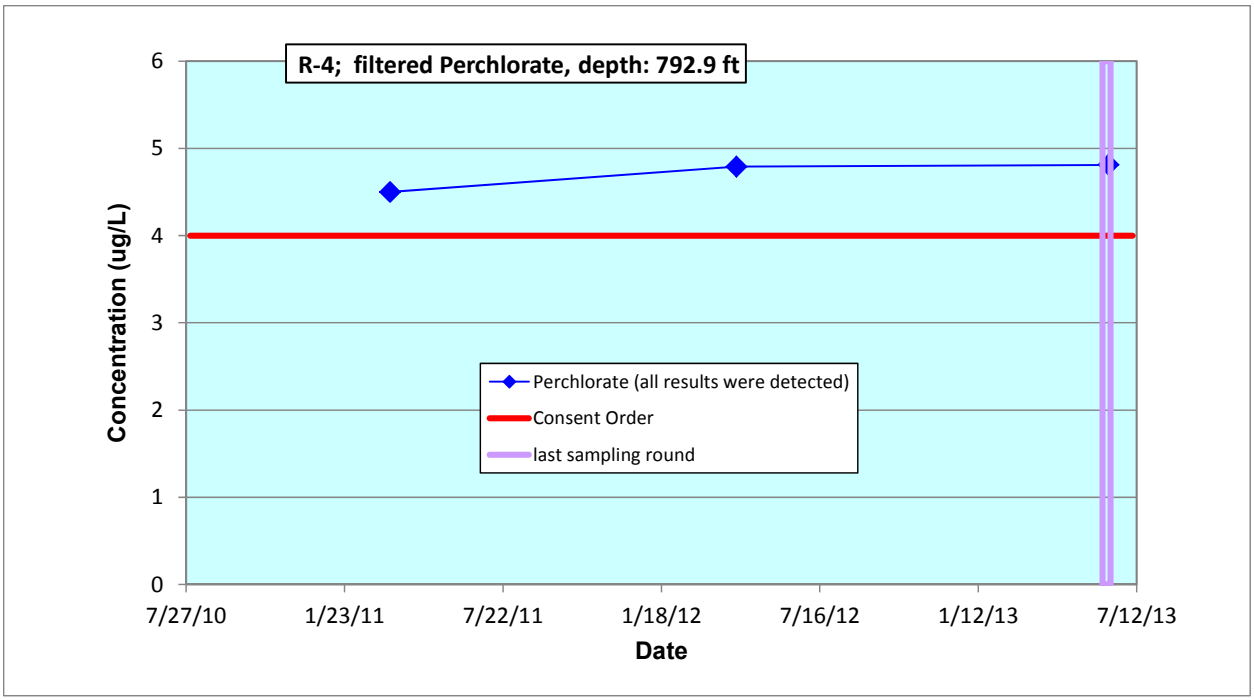

LAUZ-1; unfiltered Gross beta, depth: 5.35 ft
Concentration (pCi/L)
300
250
200
150
100
50
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Gross beta (all results were detected)
EPA DW Action LVL
last sampling round

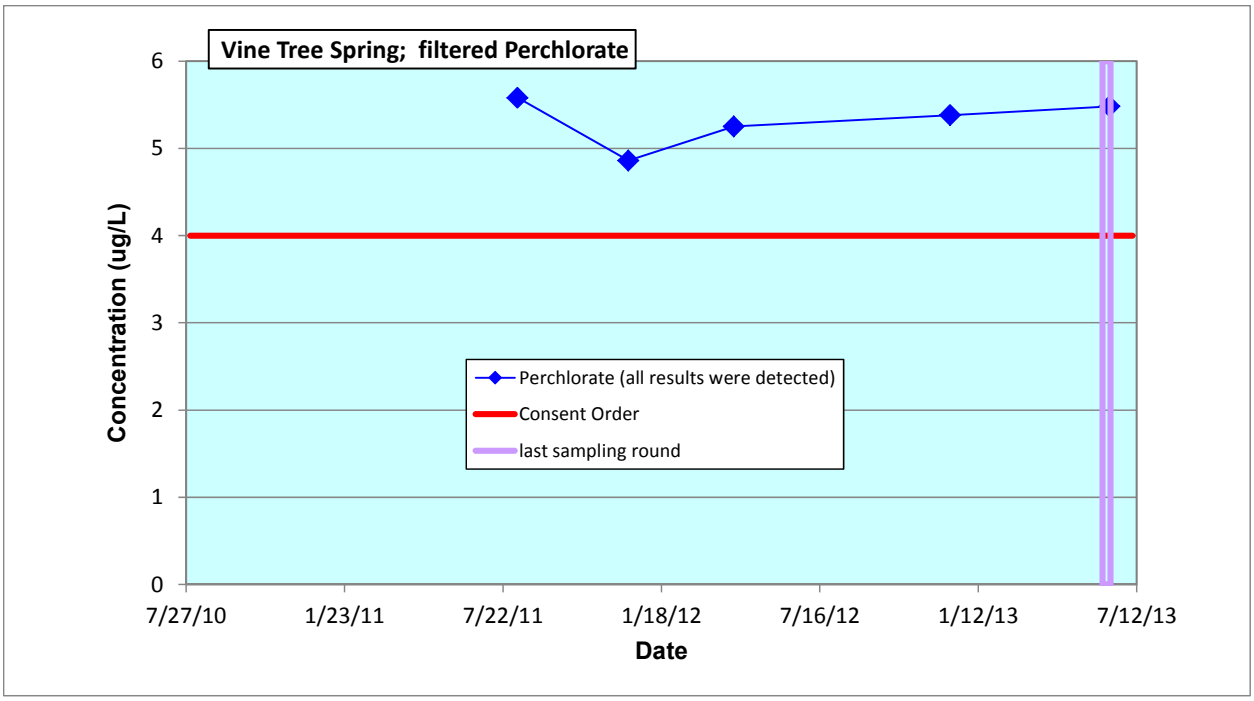

LAUZ-1; filtered Manganese, depth: 5.35 ft
Concentration (ug/L)
3000
2500
2000
1500
1000
500
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Manganese (all results were detected)
NMWQCC Groundwater Standard
last sampling round


LAUZ-1; unfiltered Strontium-90, depth: 5.35 ft
Concentration (pCi/L)
70
60
50
40
30
20
10
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Strontium-90 (all results were detected)
EPA MCL
last sampling round


LLAO-4; filtered Lead, depth: 5.24 ft
Concentration (ug/L)
25
20
15
10
5
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Lead (detected)
Lead (undetected)
EPA DW Action LVL
last sampling round


R-2; filtered Arsenic, depth: 906.4 ft
Concentration (ug/L)
12
10
8
6
4
2
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Arsenic (detected)
Arsenic (undetected)
EPA MCL
last sampling round


R-4; filtered Perchlorate, depth: 792.9 ft
Concentration (ug/L)
6
5
4
3
2
1
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Perchlorate (all results were detected)
Consent Order
last sampling round


Vine Tree Spring; filtered Perchlorate
Concentration (ug/L)
6
5
4
3
2
1
0
7/27/10
1/23/11
7/22/11
1/18/12
7/16/12
1/12/13
7/12/13
Date
Perchlorate (all results were detected)
Consent Order
last sampling round

Appendix F

Analytical Reports
(on CD included with this document)

CD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2013-409	Inorganic	GELC[a]	CALA-13-24549	12/12/12	Vine Tree Spring	—[b]	—
2013-409	Inorganic	GELC	CALA-13-24550	12/12/12	Vine Tree Spring	—	—
2013-409	Organic	GELC	CALA-13-24549	12/12/12	Vine Tree Spring	—	—
2013-914	Inorganic	GELC	CAPU-13-34774	06/03/13	POI-4	159	174
2013-914	Inorganic	GELC	CAPU-13-34782	06/03/13	POI-4	159	174
2013-914	Rad[c]	GELC	CAPU-13-34774	06/03/13	POI-4	159	174
2013-917	Inorganic	GELC	CAPU-13-34776	06/04/13	R-24	825	848
2013-917	Inorganic	GELC	CAPU-13-34784	06/04/13	R-24	825	848
2013-917	Rad	GELC	CAPU-13-34776	06/04/13	R-24	825	848
2013-926	Inorganic	GELC	CAPU-13-34773	06/05/13	APCO-1	4.7	14.7
2013-926	Inorganic	GELC	CAPU-13-34778	06/05/13	R-3i	215.2	220
2013-926	Inorganic	GELC	CAPU-13-34781	06/05/13	APCO-1	4.7	14.7
2013-926	Inorganic	GELC	CAPU-13-34786	06/05/13	R-3i	215.2	220
2013-926	Rad	GELC	CAPU-13-34773	06/05/13	APCO-1	4.7	14.7
2013-926	Rad	GELC	CAPU-13-34778	06/05/13	R-3i	215.2	220
2013-934	Inorganic	GELC	CALA-13-33421	06/06/13	LAO-3a	4.7	14.7
2013-934	Inorganic	GELC	CALA-13-33429	06/06/13	LAO-3a	4.7	14.7
2013-934	Rad	GELC	CALA-13-33421	06/06/13	LAO-3a	4.7	14.7
2013-935	Inorganic	GELC	CAPU-13-34788	06/06/13	TW-2Ar	102	112
2013-935	Inorganic	GELC	CAPU-13-34780	06/06/13	TW-2Ar	102	112
2013-935	Inorganic	GELC	CAPU-13-34770	06/06/13	TW-2Ar	102	112
2013-935	Inorganic	GELC	CAPU-13-34771	06/06/13	TW-2Ar	102	112
2013-935	Rad	GELC	CAPU-13-34780	06/06/13	TW-2Ar	102	112
2013-935	Rad	GELC	CAPU-13-34770	06/06/13	TW-2Ar	102	112
2013-935-1	Rad	GELC	CAPU-13-34770	06/06/13	TW-2Ar	102	112
2013-940	Inorganic	GELC	CAPU-13-34787	06/10/13	R-4	792.9	816
2013-940	Inorganic	GELC	CAPU-13-34777	06/10/13	R-3	974.5	995
2013-940	Inorganic	GELC	CAPU-13-34779	06/10/13	R-4	792.9	816
2013-940	Inorganic	GELC	CAPU-13-34785	06/10/13	R-3	974.5	995
2013-940	Organic	GELC	CAPU-13-34779	06/10/13	R-4	792.9	816
2013-940	Rad	GELC	CAPU-13-34777	06/10/13	R-3	974.5	995
2013-940	Rad	GELC	CAPU-13-34779	06/10/13	R-4	792.9	816
2013-947	Inorganic	GELC	CALA-13-33427	06/11/13	Vine Tree Spring	—	—
2013-947	Inorganic	GELC	CALA-13-33435	06/11/13	Vine Tree Spring	—	—
2013-947	Organic	GELC	CALA-13-33427	06/11/13	Vine Tree Spring	—	—
2013-947	Rad	GELC	CALA-13-33427	06/11/13	Vine Tree Spring	—	—
2013-948	Rad	ARSL[d]	CALA-13-33427	06/11/13	Vine Tree Spring	—	—
2013-951	Inorganic	GELC	CALA-13-33423	06/12/13	LLAO-4	5.24	15.24

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2013-951	Inorganic	GELC	CALA-13-33431	06/12/13	LLAO-4	5.24	15.24
2013-951	Organic	GELC	CALA-13-33423	06/12/13	LLAO-4	5.24	15.24
2013-951	Rad	GELC	CALA-13-33423	06/12/13	LLAO-4	5.24	15.24
2013-952	Inorganic	GELC	CAPU-13-34775	06/12/13	R-2	906.4	929.6
2013-952	Inorganic	GELC	CAPU-13-34783	06/12/13	R-2	906.4	929.6
2013-952	Rad	GELC	CAPU-13-34775	06/12/13	R-2	906.4	929.6

[a] GELC = General Engineering Laboratories, Inc., Charleston, SC.

[b] — = Not applicable.

[c] Rad = Radiochemistry (not gamma).

[d] ARSL = American Radiation Services, Inc.