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Periodic Monitoring Report for Pajarito Watershed General Surveillance Monitoring Group, Third Quarter, Monitoring Year 2016

Los Alamos
NATIONAL LABORATORY
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Prepared by the Associate Directorate for Environmental Management

Los Alamos National Laboratory, operated by Los Alamos National Security, LLC, for the U.S. Department of Energy (DOE) under Contract No. DE-AC52-06NA253 and under DOE Office of Environmental Management Contract No. DE-EM0003528, has prepared this document pursuant to the Compliance Order on Consent, signed June 24, 2016. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory.

EP2016-0103

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August 2016

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the monitoring year 2016, third quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Pajarito watershed portion of the General Surveillance monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from April 8 to April 20, 2016, and included sampling of surface-water locations and groundwater wells or well screen 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; and field parameters (dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity).

No results from previous sampling of PME surface-water monitoring locations are reported in this PMR. No results from surface-water locations sampled during the current PME were above applicable screening levels.

No results from previous sampling of PME groundwater monitoring locations are reported in this PMR. One result from groundwater samples collected during this PME was above screening levels.

CONTENTS

Figures

Tables

Appendixes

Acronyms and Abbreviations

amsl	above mean sea level
AOC	area of concern
AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
CFR	Code of Federal Regulations (U.S.)
Consent Order	Compliance Order on Consent
DCS	Derived Concentration Technical Standard (DOE)
DOE	Department of Energy (U.S.)
EIM	Environmental Information Management (Database)
EPA	Environmental Protection Agency (U.S.)
ESH	Environment, Safety, and Health (Directorate)
F	filtered
gpm	gallons per minute
HE	high explosives
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MDA	material disposal area
MDL	method detection limit
N	no (best value flag code)
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NM HH OO	Human health organism only, New Mexico surface-water standards
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
QC	quality control
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RLWTF	Radioactive Liquid Waste Treatment Facility
SIM	selected ion monitoring
SOP	standard operating procedure
SVOC	semivolatile organic compound

SWMU	solid waste management unit
TA	technical area
TDS	total dissolved solids
TNT	2,4,6-trinitrotoluene
UF	unfiltered
VOC	volatile organic compound
Y	yes (best value flag code)

1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of monitoring year 2016, third quarter, annual groundwater and surface-water monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Pajarito watershed portion of the General Surveillance monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016 (2016 IFGMP) (LANL 2015, 600467), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from April 8 to April 20, 2016, and included sampling of surface-water locations and groundwater wells or well screen 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 screening levels 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 2016 IFGMP (LANL 2015, 600467) 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 Pajarito watershed portion of the General Surveillance monitoring group.

Pajarito Canyon has a drainage that extends into the Sierra de los Valles, west of the Laboratory. Saturated alluvium occurs in lower Pajarito Canyon near the eastern Laboratory boundary but does not extend beyond the boundary. In the past, the Laboratory released small amounts of wastewater into tributaries of Pajarito Canyon from several high explosives– (HE-) processing sites at Technical Area 09 (TA-09) and a plating facility at TA-22. Some firing sites border portions of tributaries Twomile and

Threemile Canyons. A nuclear materials experimental facility occupied the floor of Pajarito Canyon at TA-18. Waste management areas at TA-54, used for disposal of organic chemicals and low-level radioactive waste, occupy the mesa north of the lower part of the canyon. A small contaminated area of shallow intermediate groundwater occurs behind a former Laboratory warehouse location at TA-03. The main groundwater impacts are from organic chemicals and from HE.

Other wells in Pajarito Canyon are assigned to the TA-54 monitoring group. At TA-54, groundwater monitoring is conducted to support both (1) the corrective measures process for solid waste management units (SWMUs) and areas of concern (AOCs) (particularly Material Disposal Areas [MDAs] G, H, and L) under the Consent Order and (2) the Resource Conservation and Recovery Act permit. The TA-54 monitoring group was established to address the monitoring requirements for all portions and aspects of TA-54. The TA-54 monitoring group includes both intermediate-perched and regional wells in the near vicinity. Other downgradient wells have general relevance to TA-54 and other upgradient sources but are not considered part of the TA-54 monitoring network and are not included in the monitoring group.

TA-54 is situated in the east-central portion of the Laboratory on Mesita del Buey. TA-54 includes four MDAs designated as G, H, J, and L; a waste characterization, container storage, and transfer facility (TA-54 West); active radioactive waste storage and disposal operations at Area G; hazardous and mixed-waste storage operations at Area L; and administrative and support areas. The transfer facility is located at the western end of TA-54. A total of 47 SWMUs and AOCs are located within TA-54.

Mesita del Buey is a 100-ft- to 140-ft-high finger-shaped mesa that trends southeast. The elevation of Mesita del Buey ranges from 6750 ft to 6670 ft above mean sea level (amsl) at Area G. The mesa is approximately 500 ft wide and is bounded by Cañada del Buey and Pajarito Canyon.

The TA-54 monitoring group is located predominantly in the Pajarito Canyon watershed, and the occurrence of surface water, alluvial groundwater, and intermediate-perched and regional groundwater is discussed in the Pajarito Canyon Investigation Report, Revision 1 (LANL 2009, 106939).

Pore-gas monitoring data show vapor-phase volatile organic compounds (VOCs) and tritium are present in the upper portion of the unsaturated zone beneath MDAs G and L. The primary contaminants that have been transported in the vapor phase at TA-54 are 1,1,1-trichloroethane; trichloroethene; Freon-113; and tritium (LANL 2005, 090513; LANL 2006, 091888; LANL 2007, 096409).

Data from the groundwater monitoring network around TA-54 show sporadic detections of a variety of contaminants, including several VOCs. The temporal and spatial nature of the occurrences does not, however, clearly indicate the presence of a source related to potential sources at TA-54 (LANL 2009, 106939). Further evaluations of existing groundwater data near TA-54 and detailed descriptions of organic and inorganic contaminants detected in intermediate-perched and regional groundwater at TA-54 are presented in the corrective measures evaluation reports for MDAs G, H, and L (LANL 2011, 205756; LANL 2011, 206319; LANL 2011, 206324).

2.0 SCOPE OF ACTIVITIES

The PME for the Pajarito watershed portion of the General Surveillance monitoring group was conducted pursuant to the 2016 IFGMP (LANL 2015, 600467).

Table 2.0-1 provides the location name, sample collection date, screened interval, top and bottom screen depths, casing volume, purge volume, and purge or flow 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 2016 IFGMP (LANL 2015, 600467).

3.2 Field Parameter Results

Appendix A contains the field parameter results for this PME and for 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. Base-flow and groundwater elevation measurements are shown graphically in Figures 3.3-1 and 3.3-2, respectively.

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 with method detection limits (MDLs) greater than screening levels. Some of the analytes were measured using more than one analytical method or analytical laboratory, leading to a range of MDLs. For some of these analytes, the MDL is much lower than for earlier analyses. Table 3.4-3 presents a list of analytes with MDLs below screening levels. The tables apply to the results with the lowest MDL, so the analytical method and analytical laboratory are included in the tables for reference.

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 2016 IFGMP (LANL 2015, 600467). Purge water is managed and characterized in accordance with the waste characterization strategy form associated with the well and ENV-RCRA-QP-010, Land Application of Groundwater. ENV-RCRA-QP-010 implements the NMED-approved Decision Tree for land application of drilling, development, rehabilitation, and 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 listed at http://www.lanl.gov/environment/plans-procedures.php and are available at eprr.lanl.gov. 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 industry 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, and 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 followed the guidelines set in the DOE model SOP for data validation, which included 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 F also includes a table showing the contents of the appendix. 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) 6.4.900.
- Surface-water and groundwater perchlorate data are 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 lower 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 are used as the groundwater cleanup level. These screening levels are for either a cancer- or noncancer-risk type. For the cancer-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. This report was prepared using the November 2015 EPA regional screening levels.
- 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 radionuclides and radioactivity are voluntarily compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Technical Standards (DCSs) for groundwater but are not reported in Table 4.2-3 or Appendix D.

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 are included in the table except for field duplicate exceedances. For example, if aluminum was detected above a screening level in both a primary sample and a field duplicate, only the primary sample result is shown. If aluminum was detected above a screening level in two primary samples, both results are shown.

No analytes from the current PME exceeded their screening level at more than one sampling location, so no maps showing concentrations are included.

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.

4.2.1 Surface Water (Base Flow)

No results from previous sampling of PME surface-water monitoring locations are reported in this PMR. No results from surface-water locations sampled during the current PME were above applicable screening levels.

4.2.2 Groundwater

No groundwater results from previous sampling of PME monitoring locations are reported in this PMR.

For the current PME, the filtered chloride concentration of 267 mg/L at alluvial well 18-MW-18 was above the 250-mg/L NMWQCC groundwater standard screening level. Earlier chloride concentrations measured at this well since 2006 range from 51.3 mg/L to 354 mg/L.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the Pajarito watershed portion of the 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 PME surface-water samples are reported in this PMR. No results from surface-water locations sampled during the current PME were above screening levels.

5.2.2 Groundwater

No groundwater results from previous sampling of PME monitoring locations are reported in this PMR. One result from groundwater samples collected during this PME was 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 this PME. The table provides a detailed account of sampling event deviations.

5.4 Remediation System Monitoring

Remediation system monitoring is not applicable to the Pajarito watershed portion of the 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 or ESH ID. This information is also included in text citations. ER IDs were assigned by the Environmental Programs Directorate's Records Processing Facility (IDs through 599999), and ESH IDs are assigned by the Environment, Safety, and Health (ESH) Directorate (IDs 600000 and above). IDs are used to locate documents in the Laboratory's Electronic Document Management System and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau and the ESH 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), September 2005. "Investigation Report for Material Disposal Area G, Consolidated Unit 54-013(b)-99, at Technical Area 54," Los Alamos National Laboratory document LA-UR-05-6398, Los Alamos, New Mexico. (LANL 2005, 090513)

LANL (Los Alamos National Laboratory), March 2006. "Investigation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 1," Los Alamos National Laboratory document LA-UR-06-1564, Los Alamos, New Mexico. (LANL 2006, 091888)

LANL (Los Alamos National Laboratory), May 2007. "Addendum to the Investigation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54," Los Alamos National Laboratory document LA-UR-07-3214, Los Alamos, New Mexico. (LANL 2007, 096409)

LANL (Los Alamos National Laboratory), August 2009. "Pajarito Canyon Investigation Report, Revision 1," Los Alamos National Laboratory document LA-UR-09-4670, Los Alamos, New Mexico. (LANL 2009, 106939)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 2," Los Alamos National Laboratory document LA-UR-11-4798, Los Alamos, New Mexico. (LANL 2011, 205756)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area H, Solid Waste Management Unit 54-004, at Technical Area 54, Revision 1," Los Alamos National Laboratory document LA-UR-11-5079, Los Alamos, New Mexico. (LANL 2011, 206319)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area G, Solid Waste Management Unit 54-013(b)-99, at Technical Area 54, Revision 3," Los Alamos National Laboratory document LA-UR-11-4910, Los Alamos, New Mexico. (LANL 2011, 206324)

LANL (Los Alamos National Laboratory), May 2015. "Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016," Los Alamos National Laboratory document LA-UR-15-23276, Los Alamos, New Mexico. (LANL 2015, 600467)

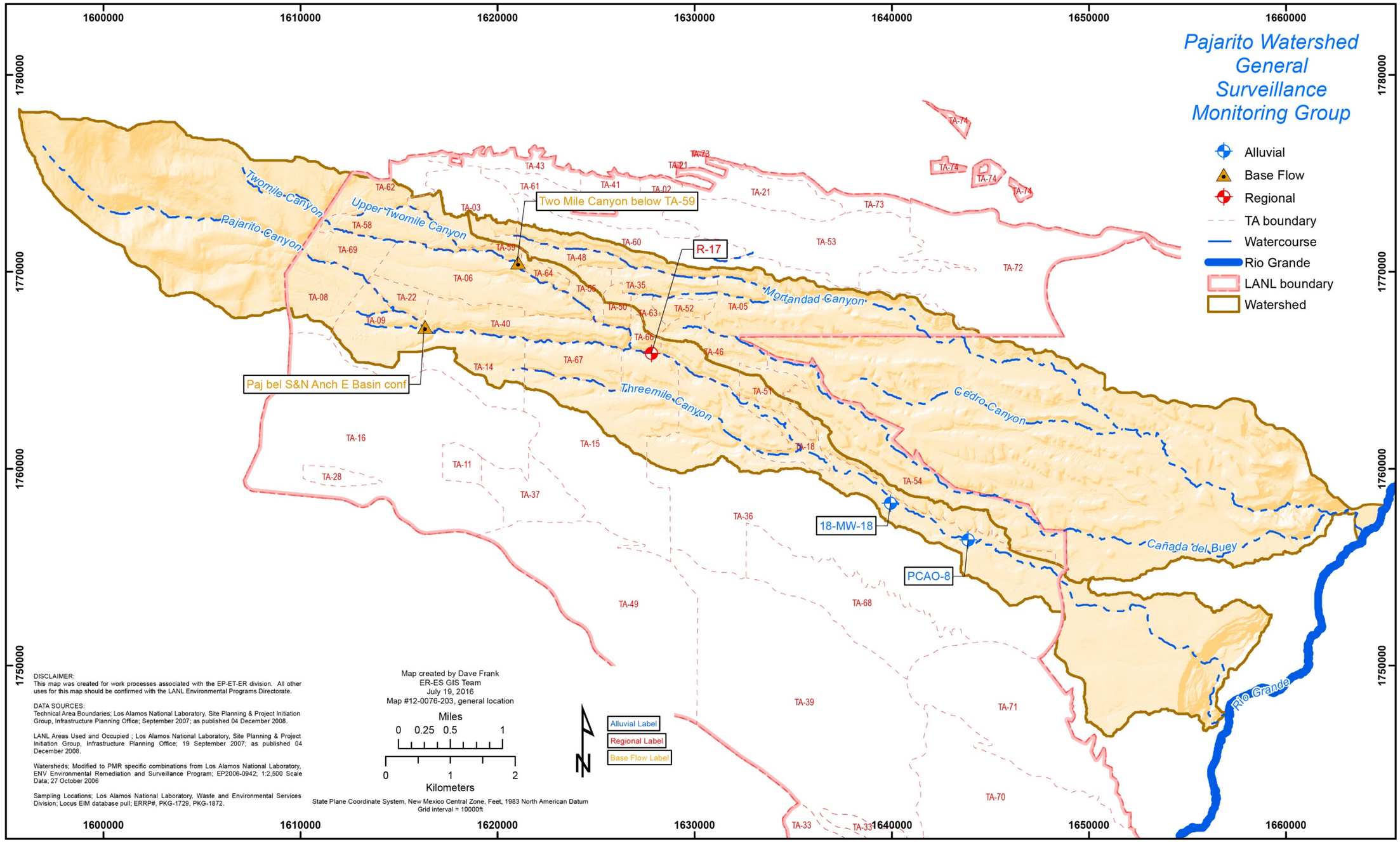


Figure 2.0-1 Locations scheduled to be monitored for this PME (see Table 2.0-1)

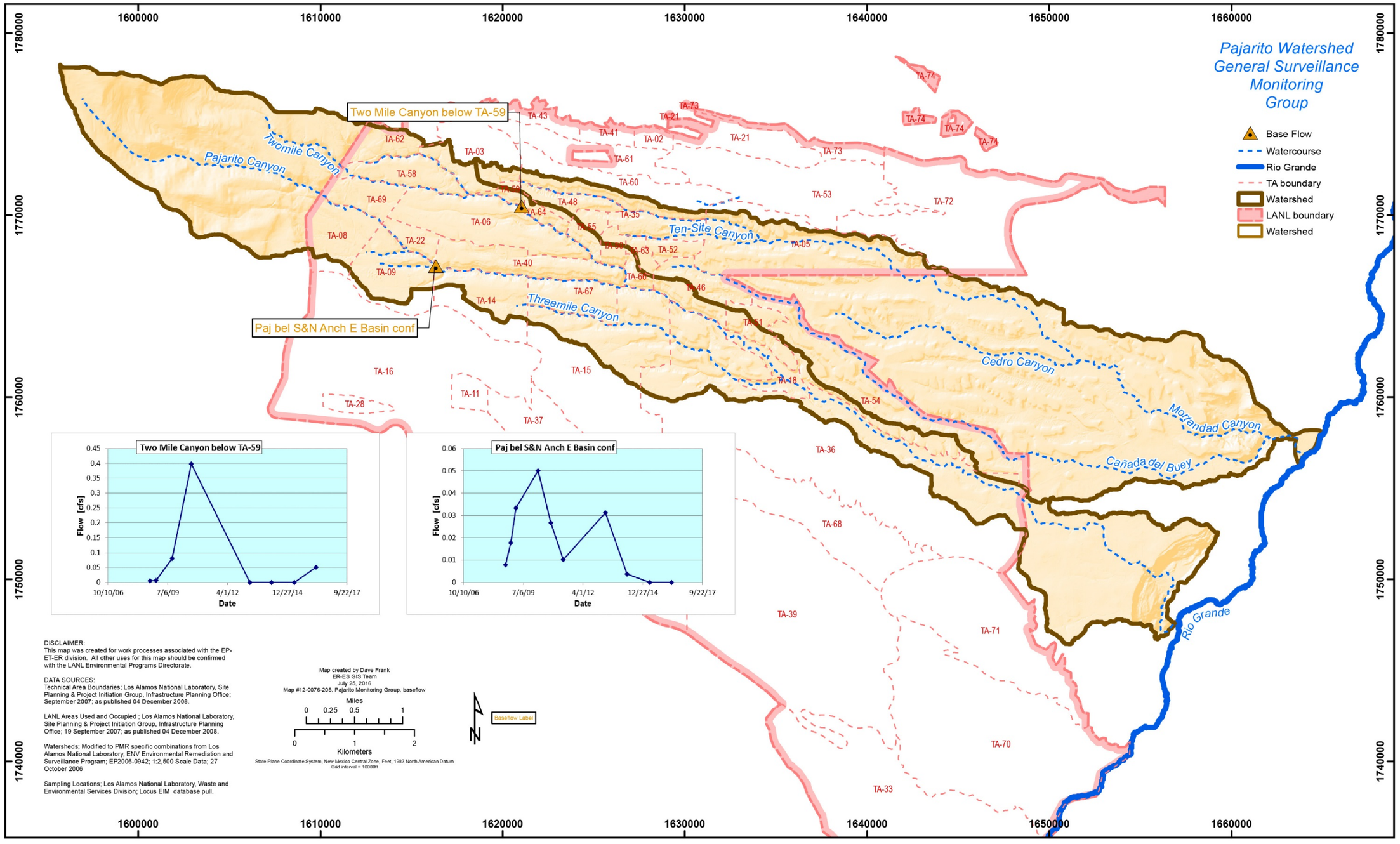


Figure 3.3-1 Base-flow measurements

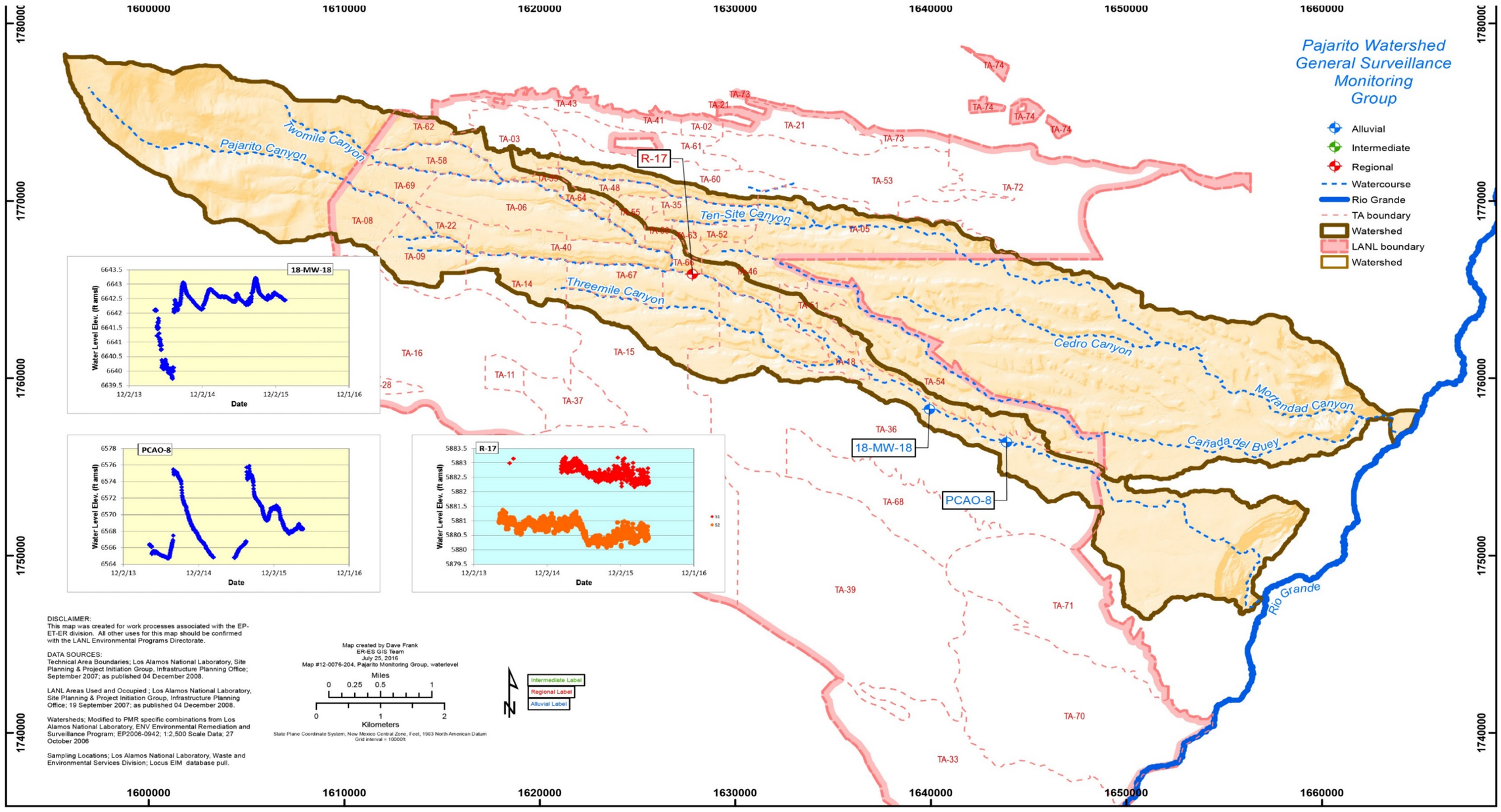


Figure 3.3-2 Groundwater elevations

Table 2.0-1
Pajarito Watershed General Surveillance
Monitoring Group Locations and General Information

Location Name	Sample Collection Date	Screen Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge or Flow Rate (gpm[a])
Base Flow							
Pajarito below S&N Anchor East Basin Confluence	n/a[b]	n/a	n/a	n/a	n/a	n/a	n/a
Two Mile Canyon below TA-59	04/20/16	n/a	n/a	n/a	n/a	n/a	22.9
Alluvial							
18-MW-18	04/08/16	10.5	12.5	23	1.7	2.5	0.21
PCAO-8	04/20/16	9.7	10	19.7	5.9	5.9	0.05
Regional							
R-17 S1	04/12/16	23	1057	1080	51.21	154.08	2.14
R-17 S2	04/12/16	10	1124	1134	29.67	87.36	2.24

[a] gpm = Gallons per minute.

[b] n/a = Not applicable.

Table 3.4-1
Pajarito Watershed General Surveillance
Monitoring Group PME Observations and Deviations

Location	Deviation	Cause	Comment
Pajarito below S&N Anchor East Basin Confluence	A sample was not collected.	The location was dry. The attempted sampling date was 04/20/16.	An attempt to sample the location will be made during the next scheduled PME.
PCAO-8	A prioritized sampling suite was collected.	A limited volume of water was available for sample collection.	Samples for VOC, low-MDL VOC, semivolatile organic compound, filtered metals, and unfiltered mercury analysis were collected according to the prioritized sampling protocol for the well.

*n/a = Not applicable.

Table 3.4-2
Target Analytes with MDLs above Screening Levels for Current PME

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
Pesticides/PCBs						
Hexachlorobenzene	0.00638	SW-846:8081B	0.0029	µg/L	NM HH OO[a]	GELC[b]
Semivolatile Organic Compounds						
Azobenzene	1.5–1.69	SW-846:8270D	1.2	µg/L	EPA TAP SCRN LVL[c]	GELC
Benzidine	0.83–2.19	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011–0.002	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Benzo(a)anthracene	0.15–0.169	SW-846:8270D	0.12	µg/L	EPA TAP SCRN LVL	GELC
Bis(2-chloroethyl)ether	1.5–1.69	SW-846:8270D	0.14	µg/L	EPA TAP SCRN LVL	GELC
Dibenz(a,h)anthracene	0.15–0.169	SW-846:8270D	0.034	µg/L	EPA TAP SCRN LVL	GELC
Dichlorobenzidine[3,3'-]	1.5–1.69	SW-846:8270D	0.28–1.3	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Dinitro-2-methylphenol[4,6-]	1.55–1.69	SW-846:8270D	1.5	µg/L	EPA TAP SCRN LVL	GELC
Hexachlorobenzene	1.5–1.69	SW-846:8270D	0.0029–1	µg/L	EPA MCL, NM HH OO	GELC
Nitrosodiethylamine[N-]	0.03–1.69	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0017	µg/L	EPA TAP SCRN LVL	GELC
Nitrosodimethylamine[N-]	0.07–1.69	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-butylamine[N-]	0.03–1.69	SW-846:8270DGCMS_SIM, SW-846:8270D	0.027	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-propylamine[N-]	1.5–1.69	SW-846:8270D	0.11	µg/L	EPA TAP SCRN LVL	GELC
Nitrosopyrrolidine[N-]	1.5–1.69	SW-846:8270D	0.37	µg/L	EPA TAP SCRN LVL	GELC
Pentachlorophenol	1.5–1.69	SW-846:8270D	1	µg/L	EPA MCL	GELC
Volatile Organic Compounds						
Acrolein	0.5–1.5	SW-846:8260B_SIM, SW-846:8260B	0.042	µg/L	EPA TAP SCRN LVL	GELC
Acrylonitrile	1	SW-846:8260B	0.52	µg/L	EPA TAP SCRN LVL	GELC
Chloro-1,3-butadiene[2-]	0.2	SW-846:8260B	0.19	µg/L	EPA TAP SCRN LVL	GELC
Trichloropropane[1,2,3-]	0.0183–0.3	SW-846:8011, SW-846:8260B	0.0075	µg/L	EPA TAP SCRN LVL	GELC

Note: This table is applicable to samples reported in this PMR.

[a] NM HH OO = Human health organism only, New Mexico surface-water standards.

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

[c] EPA TAP SCRN LVL = U.S. Environmental Protection Agency generic screening level for tap water.

Table 3.4-3
Target Analytes with MDLs below Screening Levels for Current PME

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
Herbicides						
Pentachlorophenol	0.085–0.0916	SW-846:8151A	1–19	µg/L	EPA MCL, NM Aqu Acute[a]	GELC[b]
Pesticides and PCBs						
Hexachlorobenzene	0.00638–0.00665	SW-846:8081B	1	µg/L	EPA MCL	GELC
Semivolatile Organic Compounds						
Atrazine	1.5–1.69	SW-846:8270D	3	µg/L	EPA MCL	GELC
Benzo(a)anthracene	0.03–0.15	SW-846:8270DGCMS_SIM, SW-846:8270D	0.12–0.18	µg/L	EPA TAP SCRN LVL[c], NM HH OO[d]	GELC
Benzo(a)pyrene	0.03–0.169	SW-846:8270D, SW-846:8270DGCMS_SIM	0.18–0.2	µg/L	EPA MCL, NM HH OO	GELC
Benzo(b)fluoranthene	0.03–0.169	SW-846:8270D, SW-846:8270DGCMS_SIM	0.18–0.34	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Bis(2-chloroethyl)ether	0.03–1.5	SW-846:8270DGCMS_SIM, SW-846:8270D	0.14–5.3	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Dibenz(a,h)anthracene	0.03–0.15	SW-846:8270DGCMS_SIM, SW-846:8270D	0.034–0.18	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Dichlorobenzidine[3,3'-]	0.039–0.0438	SW-846:8270DGCMS_SIM	0.28–1.3	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Dinitro-2-methylphenol[4,6-]	1.5	SW-846:8270D	1.5–280	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Indeno(1,2,3-cd)pyrene	0.03–0.169	SW-846:8270D, SW-846:8270DGCMS_SIM	0.18–0.34	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Nitrosodimethylamine[N-]	0.07–1.5	SW-846:8270D, SW-846:8270DGCMS_SIM	30	µg/L	NM HH OO	GELC
Nitroso-di-n-propylamine[N-]	0.03–1.5	SW-846:8270DGCMS_SIM, SW-846:8270D	0.11–5.1	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Nitrosopyrrolidine[N-]	0.03–0.0337	SW-846:8270DGCMS_SIM	0.37	µg/L	EPA TAP SCRN LVL	GELC
Oxybis(1-chloropropane)[2,2'-]	1.5–1.69	SW-846:8270D	710–65000	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Pentachlorophenol	1.5	SW-846:8270D	19	µg/L	NM Aqu Acute	GELC

Table 3.4-3 (continued)

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
Volatile Organic Compounds						
Acrolein	0.5–1.5	SW-846:8260B, SW-846:8260B_SIM	9	µg/L	NM HH OO	GELC
Acrylonitrile	0.5–1	SW-846:8260B_SIM, SW-846:8260B	0.52–2.5	µg/L	EPA TAP SCRN LVL, NM HH OO	GELC
Chloro-1,3-butadiene[2-]	0.1	SW-846:8260B_SIM	0.19	µg/L	EPA TAP SCRN LVL	GELC
Dibromo-3-Chloropropane[1,2-]	0.00869–0.00893	SW-846:8011	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.00869–0.00893	SW-846:8011	0.05	µg/L	EPA MCL	GELC
Methacrylonitrile	1	SW-846:8260B	1.9	µg/L	EPA TAP SCRN LVL	GELC

Note: This table is applicable to samples reported in this PMR.

[a] NM Aqu Acute = New Mexico Water Quality Control Commission aquatic life standards acute.

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

[c] EPA TAP SCRN LVL = U.S. Environmental Protection Agency generic screening level for tap water.

[d] NM HH OO = Human health organism only, New Mexico surface-water standards.

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 458.1	DOE BCG	n/a[a]	X[b]
DOE Order 458.1	DOE 100-mrem Public Dose DCS	X	n/a
DOE Order 458.1	DOE 4-mrem Drinking Water DCS	X	n/a
40 CFR[c] 141	EPA MCL	X	n/a
EPA Regional Screening Levels[d]	EPA Regional Screening Levels for Tap Water	X	n/a
Consent Order	Screening Level for Perchlorate in Groundwater	X	n/a
20 NMAC 6.2.3103	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4.900.C	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4.900.F	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4.900.G	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Standards Acute	n/a	X[e,f]
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Standards Chronic	n/a	X[e,f]
20 NMAC 6.4.900.H	NMWQCC Aquatic Life 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.

[d] Available at http://www.epa.gov/risk/risk-based-screening-table-generic-tables.

[e] Hardness-based standards for total recoverable aluminum and dissolved chromium(III) conservatively compared with results for total aluminum and dissolved chromium, respectively.

[f] Standard for dissolved chromium(VI) conservatively compared with results for dissolved chromium.

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

Watershed	Location	Stream Type	Hardness (mg/L as $CaCO_3$)
Pajarito	Two Mile Canyon below TA-59	Ephemeral	50

Table 4.2-3
Pajarito 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							
18-MW-18	04/08/16	Chloride	F*	267	mg/L	250	NMWQCC Groundwater Standard

*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
18-MW-18	12.5	04/08/16	WG[a]	Dissolved Oxygen	7.59	mg/L	CAPA-16-114705
18-MW-18	12.5	04/21/15	WG	Dissolved Oxygen	7.72	mg/L	CAPA-15-93433
18-MW-18	12.5	04/18/14	WG	Dissolved Oxygen	7.77	mg/L	CAPA-14-56384
18-MW-18	12.5	04/23/13	WG	Dissolved Oxygen	4.27	mg/L	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Dissolved Oxygen	7.27	mg/L	CAPA-12-13278
18-MW-18	12.5	04/08/16	WG	Flow (in gpm[b])	0.21	gpm	CAPA-16-114705
18-MW-18	12.5	04/21/15	WG	Flow (in gpm)	0.26	gpm	CAPA-15-93433
18-MW-18	12.5	04/18/14	WG	Flow (in gpm)	0.24	gpm	CAPA-14-56384
18-MW-18	12.5	05/29/09	WG	Flow (in gpm)	0.26	gpm	CAPA-09-9327
18-MW-18	12.5	03/02/09	WG	Flow (in gpm)	0.26	gpm	CAPA-09-4115
18-MW-18	12.5	04/08/16	WG	Oxidation-Reduction Potential	192.2	mV	CAPA-16-114705
18-MW-18	12.5	04/21/15	WG	Oxidation-Reduction Potential	145.9	mV	CAPA-15-93433
18-MW-18	12.5	04/18/14	WG	Oxidation-Reduction Potential	152.4	mV	CAPA-14-56384
18-MW-18	12.5	04/23/13	WG	Oxidation-Reduction Potential	181	mV	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Oxidation-Reduction Potential	125.2	mV	CAPA-12-13278
18-MW-18	12.5	04/08/16	WG	pH	6.31	SU[c]	CAPA-16-114705
18-MW-18	12.5	04/21/15	WG	pH	6.6	SU	CAPA-15-93433
18-MW-18	12.5	04/18/14	WG	pH	6.51	SU	CAPA-14-56384
18-MW-18	12.5	04/23/13	WG	pH	6.54	SU	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	pH	6.76	SU	CAPA-12-13278
18-MW-18	12.5	04/08/16	WG	Specific Conductance	1218	µS/cm	CAPA-16-114705
18-MW-18	12.5	04/21/15	WG	Specific Conductance	1345	µS/cm	CAPA-15-93433
18-MW-18	12.5	04/18/14	WG	Specific Conductance	1190	µS/cm	CAPA-14-56384
18-MW-18	12.5	04/23/13	WG	Specific Conductance	831	µS/cm	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Specific Conductance	146.7	µS/cm	CAPA-12-13278
18-MW-18	12.5	04/08/16	WG	Temperature	11.69	deg C	CAPA-16-114705
18-MW-18	12.5	04/21/15	WG	Temperature	12.52	deg C	CAPA-15-93433
18-MW-18	12.5	04/18/14	WG	Temperature	12.41	deg C	CAPA-14-56384

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
18-MW-18	12.5	04/23/13	WG	Temperature	13.01	deg C	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Temperature	11.93	deg C	CAPA-12-13278
18-MW-18	12.5	04/08/16	WG	Turbidity	1.8	NTU[d]	CAPA-16-114705
18-MW-18	12.5	04/21/15	WG	Turbidity	2.2	NTU	CAPA-15-93433
18-MW-18	12.5	04/18/14	WG	Turbidity	42.8	NTU	CAPA-14-56384
18-MW-18	12.5	04/23/13	WG	Turbidity	910	NTU	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Turbidity	1.86	NTU	CAPA-12-13278
PCAO-8	9.7	04/20/16	WG	Dissolved Oxygen	6.48	mg/L	CAPA-16-114707
PCAO-8	9.7	04/18/14	WG	Dissolved Oxygen	6.05	mg/L	CAPA-14-56386
PCAO-8	9.7	04/27/12	WG	Dissolved Oxygen	6.21	mg/L	CAPA-12-13290
PCAO-8	9.7	04/25/11	WG	Dissolved Oxygen	6.44	mg/L	CAPA-11-9553
PCAO-8	9.7	10/23/10	WG	Dissolved Oxygen	4.07	mg/L	CAPA-10-27432
PCAO-8	9.7	04/20/16	WG	Flow (in gpm)	0.05	gpm	CAPA-16-114707
PCAO-8	9.7	04/18/14	WG	Flow (in gpm)	0.02	gpm	CAPA-14-56386
PCAO-8	9.7	04/25/11	WG	Flow (in gpm)	0.03	gpm	CAPA-11-9553
PCAO-8	9.7	10/23/10	WG	Flow (in gpm)	0.14	gpm	CAPA-10-27432
PCAO-8	9.7	09/17/08	WG	Flow (in gpm)	0.125	gpm	CAPA-08-15001
PCAO-8	9.7	04/20/16	WG	Oxidation-Reduction Potential	314.8	mV	CAPA-16-114707
PCAO-8	9.7	04/18/14	WG	Oxidation-Reduction Potential	241.3	mV	CAPA-14-56386
PCAO-8	9.7	04/27/12	WG	Oxidation-Reduction Potential	235.8	mV	CAPA-12-13290
PCAO-8	9.7	04/25/11	WG	Oxidation-Reduction Potential	200.9	mV	CAPA-11-9553
PCAO-8	9.7	10/23/10	WG	Oxidation-Reduction Potential	405.5	mV	CAPA-10-27432
PCAO-8	9.7	04/20/16	WG	pH	6.43	SU	CAPA-16-114707
PCAO-8	9.7	04/18/14	WG	pH	6.48	SU	CAPA-14-56386
PCAO-8	9.7	04/27/12	WG	pH	6.37	SU	CAPA-12-13290
PCAO-8	9.7	04/25/11	WG	pH	6.39	SU	CAPA-11-9553
PCAO-8	9.7	10/23/10	WG	pH	6.17	SU	CAPA-10-27432
PCAO-8	9.7	04/20/16	WG	Specific Conductance	600	µS/cm	CAPA-16-114707

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
PCAO-8	9.7	04/18/14	WG	Specific Conductance	670	µS/cm	CAPA-14-56386
PCAO-8	9.7	04/27/12	WG	Specific Conductance	571	µS/cm	CAPA-12-13290
PCAO-8	9.7	04/25/11	WG	Specific Conductance	656	µS/cm	CAPA-11-9553
PCAO-8	9.7	10/23/10	WG	Specific Conductance	891	µS/cm	CAPA-10-27432
PCAO-8	9.7	04/20/16	WG	Temperature	13.16	deg C	CAPA-16-114707
PCAO-8	9.7	04/18/14	WG	Temperature	12.17	deg C	CAPA-14-56386
PCAO-8	9.7	04/27/12	WG	Temperature	13.23	deg C	CAPA-12-13290
PCAO-8	9.7	04/25/11	WG	Temperature	12.25	deg C	CAPA-11-9553
PCAO-8	9.7	10/23/10	WG	Temperature	14.77	deg C	CAPA-10-27432
PCAO-8	9.7	04/20/16	WG	Turbidity	5.9	NTU	CAPA-16-114707
PCAO-8	9.7	04/18/14	WG	Turbidity	4.1	NTU	CAPA-14-56386
PCAO-8	9.7	04/27/12	WG	Turbidity	6.21	NTU	CAPA-12-13290
PCAO-8	9.7	04/25/11	WG	Turbidity	6.44	NTU	CAPA-11-9553
PCAO-8	9.7	10/23/10	WG	Turbidity	17.5	NTU	CAPA-10-27432
R-17 S1	1057	04/12/16	WG	Dissolved Oxygen	7.14	mg/L	CAPA-16-114709
R-17 S1	1057	04/20/15	WG	Dissolved Oxygen	6.49	mg/L	CAPA-15-93437
R-17 S1	1057	04/02/14	WG	Dissolved Oxygen	7.15	mg/L	CAPA-14-56388
R-17 S1	1057	04/25/13	WG	Dissolved Oxygen	7.39	mg/L	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Dissolved Oxygen	7.2	mg/L	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Dissolved Oxygen	7.2	mg/L	CAPA-12-13292
R-17 S1	1057	04/12/16	WG	Flow (in gpm)	2.14	gpm	CAPA-16-114709
R-17 S1	1057	04/20/15	WG	Flow (in gpm)	1.9	gpm	CAPA-15-93437
R-17 S1	1057	04/02/14	WG	Flow (in gpm)	2.2	gpm	CAPA-14-56388
R-17 S1	1057	07/27/11	WG	Flow (in gpm)	2.2	gpm	CAPA-11-22871
R-17 S1	1057	04/27/11	WG	Flow (in gpm)	2.1	gpm	CAPA-11-9288
R-17 S1	1057	04/12/16	WG	Oxidation-Reduction Potential	-142	mV	CAPA-16-114709
R-17 S1	1057	04/20/15	WG	Oxidation-Reduction Potential	103.4	mV	CAPA-15-93437
R-17 S1	1057	04/02/14	WG	Oxidation-Reduction Potential	67	mV	CAPA-14-56388

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-17 S1	1057	04/25/13	WG	Oxidation-Reduction Potential	140.2	mV	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Oxidation-Reduction Potential	137.9	mV	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Oxidation-Reduction Potential	137.9	mV	CAPA-12-13292
R-17 S1	1057	04/12/16	WG	pH	7.91	SU	CAPA-16-114709
R-17 S1	1057	04/20/15	WG	pH	7.4	SU	CAPA-15-93437
R-17 S1	1057	04/02/14	WG	pH	7.77	SU	CAPA-14-56388
R-17 S1	1057	04/25/13	WG	pH	7.88	SU	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	pH	7.75	SU	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	pH	7.75	SU	CAPA-12-13292
R-17 S1	1057	04/12/16	WG	Specific Conductance	144	µS/cm	CAPA-16-114709
R-17 S1	1057	04/20/15	WG	Specific Conductance	126	µS/cm	CAPA-15-93437
R-17 S1	1057	04/02/14	WG	Specific Conductance	124	µS/cm	CAPA-14-56388
R-17 S1	1057	04/25/13	WG	Specific Conductance	127	µS/cm	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Specific Conductance	123	µS/cm	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Specific Conductance	123	µS/cm	CAPA-12-13292
R-17 S1	1057	04/12/16	WG	Temperature	20.77	deg C	CAPA-16-114709
R-17 S1	1057	04/20/15	WG	Temperature	18.26	deg C	CAPA-15-93437
R-17 S1	1057	04/02/14	WG	Temperature	21.37	deg C	CAPA-14-56388
R-17 S1	1057	04/25/13	WG	Temperature	20.52	deg C	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Temperature	22.15	deg C	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Temperature	22.15	deg C	CAPA-12-13292
R-17 S1	1057	04/12/16	WG	Turbidity	0.7	NTU	CAPA-16-114709
R-17 S1	1057	04/20/15	WG	Turbidity	3.99	NTU	CAPA-15-93437
R-17 S1	1057	04/02/14	WG	Turbidity	1.3	NTU	CAPA-14-56388
R-17 S1	1057	04/25/13	WG	Turbidity	127	NTU	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Turbidity	0.7	NTU	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Turbidity	0.7	NTU	CAPA-12-13292
R-17 S2	1124	04/12/16	WG	Dissolved Oxygen	6.59	mg/L	CAPA-16-114710

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-17 S2	1124	04/20/15	WG	Dissolved Oxygen	6.6	mg/L	CAPA-15-93438
R-17 S2	1124	04/02/14	WG	Dissolved Oxygen	6.5	mg/L	CAPA-14-56389
R-17 S2	1124	04/25/13	WG	Dissolved Oxygen	6.61	mg/L	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Dissolved Oxygen	6.52	mg/L	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Dissolved Oxygen	6.52	mg/L	CAPA-12-13293
R-17 S2	1124	04/12/16	WG	Flow (in gpm)	2.24	gpm	CAPA-16-114710
R-17 S2	1124	04/20/15	WG	Flow (in gpm)	2.16	gpm	CAPA-15-93438
R-17 S2	1124	04/02/14	WG	Flow (in gpm)	2.2	gpm	CAPA-14-56389
R-17 S2	1124	07/27/11	WG	Flow (in gpm)	2.3	gpm	CAPA-11-22876
R-17 S2	1124	04/27/11	WG	Flow (in gpm)	2.2	gpm	CAPA-11-9289
R-17 S2	1124	04/12/16	WG	Oxidation-Reduction Potential	-137	mV	CAPA-16-114710
R-17 S2	1124	04/20/15	WG	Oxidation-Reduction Potential	148.4	mV	CAPA-15-93438
R-17 S2	1124	04/02/14	WG	Oxidation-Reduction Potential	32.2	mV	CAPA-14-56389
R-17 S2	1124	04/25/13	WG	Oxidation-Reduction Potential	126.8	mV	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Oxidation-Reduction Potential	146.9	mV	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Oxidation-Reduction Potential	146.9	mV	CAPA-12-13293
R-17 S2	1124	04/12/16	WG	pH	7.97	SU	CAPA-16-114710
R-17 S2	1124	04/20/15	WG	pH	7.95	SU	CAPA-15-93438
R-17 S2	1124	04/02/14	WG	pH	7.89	SU	CAPA-14-56389
R-17 S2	1124	04/25/13	WG	pH	7.93	SU	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	pH	7.89	SU	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	pH	7.89	SU	CAPA-12-13293
R-17 S2	1124	04/12/16	WG	Specific Conductance	137	µS/cm	CAPA-16-114710
R-17 S2	1124	04/20/15	WG	Specific Conductance	116	µS/cm	CAPA-15-93438
R-17 S2	1124	04/02/14	WG	Specific Conductance	117	µS/cm	CAPA-14-56389
R-17 S2	1124	04/25/13	WG	Specific Conductance	117	µS/cm	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Specific Conductance	118	µS/cm	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Specific Conductance	118	µS/cm	CAPA-12-13293

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-17 S2	1124	04/12/16	WG	Temperature	21.1	deg C	CAPA-16-114710
R-17 S2	1124	04/20/15	WG	Temperature	21.18	deg C	CAPA-15-93438
R-17 S2	1124	04/02/14	WG	Temperature	20.88	deg C	CAPA-14-56389
R-17 S2	1124	04/25/13	WG	Temperature	20.94	deg C	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Temperature	21.96	deg C	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Temperature	21.96	deg C	CAPA-12-13293
R-17 S2	1124	04/12/16	WG	Turbidity	0.35	NTU	CAPA-16-114710
R-17 S2	1124	04/20/15	WG	Turbidity	0.22	NTU	CAPA-15-93438
R-17 S2	1124	04/02/14	WG	Turbidity	0.3	NTU	CAPA-14-56389
R-17 S2	1124	04/25/13	WG	Turbidity	0.6	NTU	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Turbidity	0.28	NTU	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Turbidity	0.28	NTU	CAPA-12-13293
Two Mile Canyon below TA-59	—[e]	04/20/16	WS[f]	Dissolved Oxygen	8.96	mg/L	CAPA-16-114737
Two Mile Canyon below TA-59	—	08/06/10	WS	Dissolved Oxygen	6.75	mg/L	CAPA-10-23997
Two Mile Canyon below TA-59	—	09/17/09	WS	Dissolved Oxygen	7.62	mg/L	CAPA-09-12078
Two Mile Canyon below TA-59	—	02/27/09	WS	Dissolved Oxygen	10.12	mg/L	CAPA-09-4061
Two Mile Canyon below TA-59	—	12/19/08	WS	Dissolved Oxygen	16.85	mg/L	CAPA-09-1075
Two Mile Canyon below TA-59	—	04/20/16	WS	Flow (in gpm)	22.9	gpm	CAPA-16-114737
Two Mile Canyon below TA-59	—	08/06/10	WS	Flow (in gpm)	179	gpm	CAPA-10-23997
Two Mile Canyon below TA-59	—	09/17/09	WS	Flow (in gpm)	35.9	gpm	CAPA-09-12078
Two Mile Canyon below TA-59	—	12/19/08	WS	Flow (in gpm)	2.75	gpm	CAPA-09-1075
Two Mile Canyon below TA-59	—	09/15/08	WS	Flow (in gpm)	2	gpm	CAPA-08-14892
Two Mile Canyon below TA-59	—	04/20/16	WS	pH	7.84	SU	CAPA-16-114737
Two Mile Canyon below TA-59	—	08/06/10	WS	pH	7.2	SU	CAPA-10-23997
Two Mile Canyon below TA-59	—	09/17/09	WS	pH	7.26	SU	CAPA-09-12078
Two Mile Canyon below TA-59	—	02/27/09	WS	pH	6.6	SU	CAPA-09-4061
Two Mile Canyon below TA-59	—	12/19/08	WS	pH	6.07	SU	CAPA-09-1075
Two Mile Canyon below TA-59	—	04/20/16	WS	Specific Conductance	770	µS/cm	CAPA-16-114737

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
Two Mile Canyon below TA-59	—	08/06/10	WS	Specific Conductance	472	µS/cm	CAPA-10-23997
Two Mile Canyon below TA-59	—	09/17/09	WS	Specific Conductance	206	µS/cm	CAPA-09-12078
Two Mile Canyon below TA-59	—	02/27/09	WS	Specific Conductance	401	µS/cm	CAPA-09-4061
Two Mile Canyon below TA-59	—	12/19/08	WS	Specific Conductance	227	µS/cm	CAPA-09-1075
Two Mile Canyon below TA-59	—	04/20/16	WS	Temperature	5.92	deg C	CAPA-16-114737
Two Mile Canyon below TA-59	—	08/06/10	WS	Temperature	17.88	deg C	CAPA-10-23997
Two Mile Canyon below TA-59	—	09/17/09	WS	Temperature	12.4	deg C	CAPA-09-12078
Two Mile Canyon below TA-59	—	02/27/09	WS	Temperature	1.39	deg C	CAPA-09-4061
Two Mile Canyon below TA-59	—	12/19/08	WS	Temperature	0.29	deg C	CAPA-09-1075
Two Mile Canyon below TA-59	—	04/20/16	WS	Turbidity	3.4	NTU	CAPA-16-114737
Two Mile Canyon below TA-59	—	08/06/10	WS	Turbidity	837	NTU	CAPA-10-23997
Two Mile Canyon below TA-59	—	09/17/09	WS	Turbidity	87.7	NTU	CAPA-09-12078
Two Mile Canyon below TA-59	—	02/27/09	WS	Turbidity	2.86	NTU	CAPA-09-4061
Two Mile Canyon below TA-59	—	12/19/08	WS	Turbidity	65.7	NTU	CAPA-09-1075

[a] WG = Groundwater.

[b] gpm = Gallons per minute.

[c] SU = Standard unit.

[d] NTU = Nephelometric turbidity unit.

[e] — = Not applicable.

[f] WS = Base flow.

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	Contract 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	New Mexico
NMED	New Mexico Environment 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 and Best Value 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

Note: A combination of analytical laboratory qualifier codes means that several codes apply.

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.
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or data exception report.
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)

Code	Description
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
Pajarito Watershed General Surveillance Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

There are no previously unreported data for this periodic monitoring report.

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.41	—	—	0.01	SU	Y	H	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	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	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.78	—	—	0.01	SU	Y	H	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.99	—	—	0.01	SU	Y	H	J-	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.3	—	—	0.725	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.8	—	—	0.725	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.8	—	—	0.725	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.7	—	—	0.725	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.9	—	—	0.725	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.4	—	—	0.73	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00563	0.0103	0.0407	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00695	0.00769	0.0434	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00519	0.00635	0.0398	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0143	0.00855	0.0439	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0156	0.0136	0.0746	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00191	0.0018	0.036	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0656	—	—	0.017	mg/L	Y	—	U	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.175	—	—	0.017	mg/L	Y	—	J	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.076	—	—	0.017	mg/L	Y	—	U	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0322	—	—	0.017	mg/L	Y	J	J	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	389	—	—	1	µg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	392	—	—	1	µg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	462	—	—	1	µg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	441	—	—	1	µg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	322	—	—	1	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	531	—	—	1	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	27.7	—	—	15	µg/L	Y	J	J	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	25.2	—	—	15	µg/L	Y	J	J	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	27.3	—	—	15	µg/L	Y	J	J	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	32	—	—	15	µg/L	Y	J	J	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	25.1	—	—	15	µg/L	Y	J	J	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.9	—	—	15	µg/L	Y	J	J	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.136	—	—	0.134	mg/L	Y	J	J	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.4	—	—	0.134	mg/L	Y	U	U	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.193	—	—	0.067	mg/L	Y	J	J	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.137	—	—	0.067	mg/L	Y	J	J	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0915	—	—	0.067	mg/L	Y	J	J	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	61.2	—	—	0.05	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	60.7	—	—	0.05	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	66.1	—	—	0.05	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	65	—	—	0.05	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	53.8	—	—	0.05	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	80.5	—	—	0.05	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.69	1.61	4.89	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.65	2.37	4.9	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-4.58	1.78	5.21	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.89	1.49	5.05	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.23	1.3	5.12	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.52	1.7	6.2	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	267	—	—	3.35	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	263	—	—	3.35	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	317	—	—	6.7	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	300	—	—	3.35	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	354	—	—	3.35	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	179	—	—	1.3	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.25	1.23	4.4	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.79	1.9	6.28	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.71	2.15	7.46	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.862	1.32	5.75	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.3	1.56	6.84	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.07	1.6	5	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.7	—	—	3	µg/L	Y	J	J	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.23	—	—	3	µg/L	Y	J	J	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0885	—	—	0.033	mg/L	Y	J	J	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0853	—	—	0.033	mg/L	Y	J	J	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0815	—	—	0.033	mg/L	Y	J	J	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0578	—	—	0.033	mg/L	Y	J	J	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.117	—	—	0.033	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.161	—	—	0.033	mg/L	Y	—	J-	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.02	0.969	2.95	—	pCi/L	Y	—	NQ	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.84	0.995	3.1	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.39	0.956	3.19	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	21.2	2.06	4.23	—	pCi/L	Y	—	NQ	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0645	0.64	2.95	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.39	0.93	2.9	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.57	1.11	2.95	—	pCi/L	Y	—	NQ	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	8.72	1.18	2.99	—	pCi/L	Y	—	NQ	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	16.1	1.24	3.42	—	pCi/L	Y	—	J	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	19.6	1.64	4.75	—	pCi/L	Y	—	NQ	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.12	1.04	2.99	—	pCi/L	Y	—	NQ	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.32	1	2.3	—	pCi/L	Y	—	NQ	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	225	—	—	0.453	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	224	—	—	0.453	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	247	—	—	0.453	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	244	—	—	0.453	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	203	—	—	0.453	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	302	—	—	0.453	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	17.6	—	—	0.11	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	17.6	—	—	0.11	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	19.9	—	—	0.11	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	19.8	—	—	0.11	mg/L	Y	N	NQ	2014-3244	CAPA-14-56395	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	16.8	—	—	0.11	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	24.4	—	—	0.11	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04	—	—	0.165	µg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.956	—	—	0.165	µg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02	—	—	0.165	µg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.834	—	—	0.165	µg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.53	—	—	0.165	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.767	—	—	0.165	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.37	2.55	8.87	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.94	3.26	11.9	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.19	4.03	13.9	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.56	3.09	11.6	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.17	2.91	10.4	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.06	2.9	10	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.48	—	—	0.5	µg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.33	—	—	0.5	µg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.858	—	—	0.5	µg/L	Y	J	J	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	4.75	—	—	0.5	µg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.56	—	—	0.5	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.26	—	—	0.5	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.79	—	—	0.17	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.59	—	—	0.085	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.28	—	—	0.17	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.99	—	—	0.17	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.13	—	—	0.085	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.1	—	—	0.05	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.19	—	—	0.05	µg/L	Y	J	J	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.199	—	—	0.05	µg/L	Y	J	J	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.224	—	—	0.05	µg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.321	—	—	0.05	µg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.171	—	—	0.05	µg/L	Y	J	J	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.211	—	—	0.05	µg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0153	0.00955	0.049	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00258	0.00447	0.0495	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00378	0.0304	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00212	0.00561	0.0251	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00278	0.00393	0.0431	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00213	0.0056	0.019	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00765	0.00846	0.0463	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00773	0.00682	0.0468	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00566	0.00731	0.0459	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00848	0.00794	0.0375	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00278	0.00621	0.0366	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.009	0.031	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.17	—	—	0.05	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	8.09	—	—	0.05	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.48	—	—	0.05	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.48	—	—	0.05	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.04	—	—	0.05	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.99	—	—	0.05	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	61.8	21.1	53.4	—	pCi/L	Y	UI	R	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	23.5	22.6	90.2	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	26.8	19	79.4	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.5	17.6	70	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.0763	20.4	74.6	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.41	26	95	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	30.1	—	—	0.053	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	30.3	—	—	0.053	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	30.3	—	—	0.053	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	35.6	—	—	0.053	mg/L	Y	N	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	31.9	—	—	0.053	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	33.5	—	—	0.053	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	121	—	—	0.1	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	120	—	—	0.1	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	137	—	—	0.1	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	125	—	—	0.1	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	76.9	—	—	0.1	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	143	—	—	0.1	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.79	1.83	6.07	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.257	1.69	6.46	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.58	1.9	6.31	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.613	1.96	6.62	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.245	1.37	5.37	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.705	1.7	5.8	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1330	—	—	3.63	µS/cm	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1320	—	—	3.63	µS/cm	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1280	—	—	3.63	µS/cm	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1190	—	—	1	µS/cm	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1440	—	—	1	µS/cm	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	839	—	—	1	µS/cm	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	441	—	—	1	µg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	436	—	—	1	µg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	511	—	—	1	µg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	480	—	—	1	µg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	390	—	—	1	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	576	—	—	1	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.353	0.123	0.486	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.313	0.11	0.39	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.134	0.137	0.468	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.307	0.121	0.486	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.158	0.13	0.48	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0241	0.13	0.48	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.2	—	—	0.266	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.4	—	—	0.266	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	32	—	—	0.266	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	29.4	—	—	6.65	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	33.6	—	—	0.133	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.1	—	—	0.1	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.08	—	—	2.5	µg/L	Y	J	J	2016-1017	CAPA-16-114669	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	200	—	—	50	µg/L	Y	U	U	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	813	—	—	3.4	mg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	801	—	—	3.4	mg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	784	—	—	3.4	mg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	777	—	—	3.4	mg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	834	—	—	3.4	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	481	—	—	2.4	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.62	—	—	0.33	mg/L	Y	—	NQ	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.55	—	—	0.33	mg/L	Y	—	NQ	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.55	—	—	0.33	mg/L	Y	—	J-	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.18	—	—	0.33	mg/L	Y	—	J	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.52	—	—	0.33	mg/L	Y	—	NQ	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.19	—	—	0.33	mg/L	Y	—	NQ	10-3871	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0476	—	—	0.017	mg/L	Y	J	J	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0478	—	—	0.017	mg/L	Y	J	J	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0251	—	—	0.017	mg/L	Y	J	U	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0509	—	—	0.017	mg/L	Y	—	J	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0532	—	—	0.017	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.063	—	—	0.015	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.586	—	—	0.067	µg/L	Y	—	NQ	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.568	—	—	0.067	µg/L	Y	—	NQ	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.298	—	—	0.067	µg/L	Y	—	NQ	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.266	—	—	0.067	µg/L	Y	—	NQ	2014-3244	CAPA-14-56395	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.244	—	—	0.067	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.597	—	—	0.067	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.423	0.0357	0.106	—	pCi/L	Y	—	NQ	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.347	0.0347	0.122	—	pCi/L	Y	—	NQ	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.17	0.0201	0.0462	—	pCi/L	Y	—	NQ	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.397	0.0319	0.0487	—	pCi/L	Y	—	NQ	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.339	0.0348	0.0558	—	pCi/L	Y	—	NQ	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.132	0.021	0.075	—	pCi/L	Y	—	NQ	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0329	0.0123	0.0727	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0269	0.0133	0.0839	—	pCi/L	Y	U	U	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00501	0.00867	0.0296	—	pCi/L	Y	U	U	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0269	0.0108	0.0348	—	pCi/L	Y	U	U	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0103	0.00906	0.0399	—	pCi/L	Y	U	U	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0161	0.0086	0.036	—	pCi/L	Y	U	U	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.165	0.0232	0.069	—	pCi/L	Y	—	J	2016-1017	CAPA-16-114705	GELC
18-MW-18	12.5	04/08/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.222	0.0284	0.0797	—	pCi/L	Y	—	NQ	2016-1017	CAPA-16-114666	GELC
18-MW-18	12.5	04/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0871	0.0147	0.039	—	pCi/L	Y	—	NQ	2015-1082	CAPA-15-93433	GELC
18-MW-18	12.5	04/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.281	0.0263	0.0404	—	pCi/L	Y	—	J	2014-3244	CAPA-14-56384	GELC
18-MW-18	12.5	04/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.221	0.0273	0.0282	—	pCi/L	Y	—	NQ	12-1254	CAPA-12-13278	GELC
18-MW-18	12.5	07/26/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.019	0.046	—	pCi/L	Y	—	NQ	10-3872	CAPA-10-24036	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.43	—	—	1	µg/L	Y	J	J	2016-1017	CAPA-16-114739	GELC
18-MW-18	12.5	04/08/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2016-1017	CAPA-16-114669	GELC
18-MW-18	12.5	04/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2015-1082	CAPA-15-93470	GELC
18-MW-18	12.5	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2014-3244	CAPA-14-56395	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.11	—	—	1	µg/L	Y	J	J	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	12-1254	CAPA-12-13288	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	145	—	—	68	µg/L	Y	J	J	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	72.2	—	—	68	µg/L	Y	J	J	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	749	—	—	68	µg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	269	—	—	1	µg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	318	—	—	1	µg/L	Y	—	NQ	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	273	—	—	1	µg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	307	—	—	1	µg/L	Y	—	NQ	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	431	—	—	1	µg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18	—	—	15	µg/L	Y	J	J	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	25.4	—	—	15	µg/L	Y	J	J	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.2	—	—	15	µg/L	Y	J	J	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.6	—	—	15	µg/L	Y	J	J	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	31.2	—	—	15	µg/L	Y	J	J	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Butanone[2-]	78-93-3	Y	4.37	—	—	2	µg/L	Y	J	J	2016-1099	CAPA-16-114707	GELC
PCAO-8	9.7	04/18/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Butanone[2-]	78-93-3	N	5	—	—	2	µg/L	Y	UH	U	2014-3244	CAPA-14-56386	GELC
PCAO-8	9.7	10/23/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Butanone[2-]	78-93-3	N	5	—	—	1.3	µg/L	Y	U	U	11-249	CAPA-10-27432	GELC
PCAO-8	9.7	06/08/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Butanone[2-]	78-93-3	N	5	—	—	1.3	µg/L	Y	U	UJ	10-3342	CAPA-10-17777	GELC
PCAO-8	9.7	03/02/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Butanone[2-]	78-93-3	N	5	—	—	1.3	µg/L	Y	U	U	10-2248	CAPA-10-13076	GELC
PCAO-8	9.7	03/02/10	WG	UF	INIT	FD	VOC	SW-846:8260B	Butanone[2-]	78-93-3	N	5	—	—	1.3	µg/L	Y	U	U	10-2248	CAPA-10-13079	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	43.4	—	—	0.05	mg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	52.1	—	—	0.05	mg/L	Y	—	NQ	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	46.2	—	—	0.05	mg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	58.5	—	—	0.05	mg/L	Y	—	NQ	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	67.2	—	—	0.05	mg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	164	—	—	0.453	mg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	199	—	—	0.453	mg/L	Y	—	NQ	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	177	—	—	0.453	mg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	221	—	—	0.45	mg/L	Y	—	NQ	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	252	—	—	0.35	mg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	38.7	—	—	30	µg/L	Y	J	J	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	60.2	—	—	30	µg/L	Y	J	J	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	403	—	—	30	µg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	13.5	—	—	0.11	mg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	16.8	—	—	0.11	mg/L	Y	N	NQ	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	14.9	—	—	0.11	mg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	18.1	—	—	0.11	mg/L	Y	—	NQ	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	20.4	—	—	0.085	mg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.683	—	—	0.165	µg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.335	—	—	0.165	µg/L	Y	J	J	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.539	—	—	0.165	µg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.455	—	—	0.17	µg/L	Y	J	U	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.823	—	—	0.1	µg/L	Y	—	U	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.82	—	—	0.05	mg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.8	—	—	0.05	mg/L	Y	—	NQ	2014-3244	CAPA-14-56397	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.99	—	—	0.05	mg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.66	—	—	0.05	mg/L	Y	—	NQ	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.31	—	—	0.05	mg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	39	—	—	0.1	mg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	42.6	—	—	0.1	mg/L	Y	—	NQ	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	31.2	—	—	0.1	mg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	40.5	—	—	0.1	mg/L	Y	—	NQ	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	54.6	—	—	0.1	mg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	329	—	—	1	µg/L	Y	—	NQ	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	410	—	—	1	µg/L	Y	—	NQ	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	358	—	—	1	µg/L	Y	—	NQ	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	414	—	—	1	µg/L	Y	—	NQ	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	501	—	—	1	µg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.072	—	—	0.067	µg/L	Y	J	J	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.2	—	—	0.067	µg/L	Y	U	U	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.2	—	—	0.067	µg/L	Y	U	U	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.2	—	—	0.067	µg/L	Y	U	U	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.218	—	—	0.05	µg/L	Y	—	NQ	11-249	CAPA-10-27431	GELC
PCAO-8	9.7	04/20/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.11	—	—	1	µg/L	Y	J	J	2016-1099	CAPA-16-114741	GELC
PCAO-8	9.7	04/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2014-3244	CAPA-14-56397	GELC
PCAO-8	9.7	04/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	12-1253	CAPA-12-13290	GELC
PCAO-8	9.7	04/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.1	—	—	1	µg/L	Y	J	J	11-2171	CAPA-11-9553	GELC
PCAO-8	9.7	10/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.24	—	—	1	µg/L	Y	J	J	11-249	CAPA-10-27431	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.72	—	—	0.01	SU	Y	H	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.4	—	—	0.725	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.4	—	—	0.725	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.2	—	—	0.725	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.2	—	—	0.725	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.9	—	—	0.725	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.9	—	—	0.725	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.4	—	—	0.725	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.9	—	—	0.725	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00975	0.00585	0.0365	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0113	0.00593	0.0351	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0121	0.00643	0.0373	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0155	0.00967	0.0398	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00295	0.0066	0.0572	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00295	0.00511	0.0571	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0181	0.0113	0.0723	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00715	0.0104	0.0571	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	36.6	—	—	1	µg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	36.7	—	—	1	µg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	38	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	38.7	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.4	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.9	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.8	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.4	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.62	—	—	0.05	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.65	—	—	0.05	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.7	—	—	0.05	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.96	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.741	1.71	5.13	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.03	1.72	5.99	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.461	1.49	5.5	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.72	1.37	4.65	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.69	1.4	5.06	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.835	1.63	6.03	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.04	1.59	5.4	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.71	1.78	6.98	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.81	—	—	0.067	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.067	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.91	—	—	0.067	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.97	—	—	0.067	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.96	—	—	0.067	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.95	—	—	0.067	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.94	—	—	0.067	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.73	—	—	2	µg/L	Y	J	J	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.77	—	—	2	µg/L	Y	J	J	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.34	—	—	2	µg/L	Y	J	J	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.78	—	—	2	µg/L	Y	J	J	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.31	—	—	2	µg/L	Y	J	J	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.536	1.63	6.14	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.69	1.9	8.2	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.185	1.7	6.69	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.84	1.46	5.8	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.442	1.02	4.16	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.02	1.32	4.91	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.75	1.81	7.5	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.48	1.5	6.24	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.153	—	—	0.033	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.147	—	—	0.033	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.169	—	—	0.033	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.19	—	—	0.033	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.189	—	—	0.033	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.177	—	—	0.033	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.211	—	—	0.033	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.221	—	—	0.033	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.747	0.6	2.09	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.722	0.76	2.74	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.574	0.563	2.83	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.163	0.641	2.81	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.58	0.792	2.3	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	3.05	1	1.88	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.602	0.571	2.09	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.129	0.46	2	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.92	0.886	2.86	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.59	0.952	2.87	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.86	0.476	1.51	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.181	0.663	2.37	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.854	0.876	2.97	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.33	0.91	2.84	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.914	0.753	2.54	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.46	0.939	2.97	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.2	—	—	0.453	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.4	—	—	0.453	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.2	—	—	0.453	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.1	—	—	0.453	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.3	—	—	0.453	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.8	—	—	0.453	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.1	—	—	0.453	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.4	—	—	0.453	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	73	—	—	30	µg/L	Y	J	J	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Iron	Fe	Y	68.6	—	—	30	µg/L	Y	J	J	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	353	—	—	30	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	123	—	—	30	µg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	82.7	—	—	30	µg/L	Y	J	J	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	Y	81.9	—	—	30	µg/L	Y	J	J	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	67.8	—	—	30	µg/L	Y	J	J	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	Y	66.9	—	—	30	µg/L	Y	J	J	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.72	—	—	0.11	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.73	—	—	0.11	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.86	—	—	0.11	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.88	—	—	0.11	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.96	—	—	0.11	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.89	—	—	0.11	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.05	—	—	0.11	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.98	—	—	0.11	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	2.04	—	—	2	µg/L	Y	J	J	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	25.4	—	—	2	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	2.77	—	—	2	µg/L	Y	J	J	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-1274	CAPA-12-13292	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	µg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.165	µg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.75	—	—	0.165	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26	—	—	0.165	µg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.21	—	—	0.165	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.22	—	—	0.165	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.165	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.21	3.05	11.1	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.94	2.82	10	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.18	3.1	11.3	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.302	2.77	9.99	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.23	2.22	8.41	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.52	2.99	11	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.7	3.04	11.2	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.23	3.34	12	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.55	—	—	0.5	µg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.13	—	—	0.5	µg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	59.7	—	—	0.5	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.97	—	—	0.5	µg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.13	—	—	0.5	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.19	—	—	0.5	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.84	—	—	0.5	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.69	—	—	0.5	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.186	—	—	0.017	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.184	—	—	0.017	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.226	—	—	0.017	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.23	—	—	0.017	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.172	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.176	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.297	—	—	0.17	mg/L	Y	J	J	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.248	—	—	0.085	mg/L	Y	J	J	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.256	—	—	0.05	µg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.248	—	—	0.05	µg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.243	—	—	0.05	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.242	—	—	0.05	µg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.252	—	—	0.05	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.247	—	—	0.05	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.268	—	—	0.05	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.268	—	—	0.05	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00747	0.00457	0.0358	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00442	0.00883	0.0424	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00809	0.00701	0.0325	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00569	0.0336	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00351	0.00784	0.0521	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00378	0.0397	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00946	0.0465	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0106	0.0106	0.0413	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	1.87E-09	0.00698	0.0339	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00441	0.00765	0.0401	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00404	0.00809	0.0491	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0171	0.00985	0.0503	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00701	0.0628	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00534	0.0479	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00299	0.00299	0.0394	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00266	0.0046	0.035	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.5	—	—	0.05	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.5	—	—	0.05	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.55	—	—	0.05	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.66	—	—	0.05	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.64	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.58	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.65	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.6	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.6	20.6	78.4	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-3.41	24	89.6	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20.9	21.4	70.8	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.61	17.4	68.5	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.72	15.5	52	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	33.8	15.8	71.5	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.93	20.1	75.5	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-29.3	20.7	77.2	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.8	—	—	0.053	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.2	—	—	0.053	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	J-	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.5	—	—	0.053	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.2	—	—	0.053	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.5	—	—	0.053	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.2	—	—	0.053	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.3	—	—	0.053	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.22	1.4	5.83	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.35	1.46	5.15	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.81	1.77	7.61	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.336	1.35	5.01	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.78	1.26	3.96	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.427	1.32	5.29	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.94	1.65	7.28	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.81	1.69	5.77	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	3.63	µS/cm	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	3.63	µS/cm	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	3.63	µS/cm	Y	—	NQ	2015-1073	CAPA-15-93474	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	µS/cm	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	µS/cm	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46	—	—	1	µg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.6	—	—	1	µg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	41.5	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	44.3	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.1	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	43.7	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.7	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.3	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.324	0.118	0.413	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0405	0.128	0.482	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0821	0.0983	0.354	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0441	0.0682	0.236	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.405	0.158	0.486	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.327	0.118	0.496	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.184	0.127	0.452	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0486	0.127	0.434	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.76	—	—	0.133	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.76	—	—	0.133	mg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.72	—	—	0.133	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.88	—	—	0.133	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.94	—	—	0.133	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.91	—	—	0.133	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.94	—	—	0.133	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.03	—	—	0.133	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	J	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	98.6	—	—	3.4	mg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	N	14.3	—	—	3.4	mg/L	Y	U	U	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	121	—	—	3.4	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	70	—	—	3.4	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.813	—	—	0.33	mg/L	Y	J	J	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.816	—	—	0.33	mg/L	Y	J	J	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.44	—	—	0.33	mg/L	Y	—	J-	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.93	—	—	0.33	mg/L	Y	J	J	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.22	—	—	0.33	mg/L	Y	—	NQ	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.25	—	—	0.33	mg/L	Y	—	NQ	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.54	—	—	0.33	mg/L	Y	J	J	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.442	—	—	0.33	mg/L	Y	J	J	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0547	—	—	0.017	mg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0453	—	—	0.017	mg/L	Y	J	J	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0353	—	—	0.017	mg/L	Y	J	U	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.126	—	—	0.017	mg/L	Y	—	U	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0632	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0595	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0663	—	—	0.017	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.102	—	—	0.017	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.528	—	—	0.067	µg/L	Y	—	NQ	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.503	—	—	0.067	µg/L	Y	—	NQ	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.392	—	—	0.067	µg/L	Y	—	NQ	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.5	—	—	0.067	µg/L	Y	—	NQ	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.494	—	—	0.067	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.496	—	—	0.067	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.509	—	—	0.067	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.493	—	—	0.067	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.313	0.0291	0.095	—	pCi/L	Y	—	NQ	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.322	0.0265	0.0804	—	pCi/L	Y	—	NQ	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.284	0.029	0.0617	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.408	0.0321	0.0494	—	pCi/L	Y	—	J	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.339	0.0277	0.0505	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.337	0.0348	0.0751	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.291	0.0364	0.0644	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.27	0.0369	0.0832	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0297	0.0103	0.0651	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0277	0.0104	0.0551	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.01	0.00885	0.0396	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0182	0.00961	0.0353	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00816	0.00816	0.0234	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00405	0.00701	0.0349	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0119	0.0104	0.046	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00565	0.00565	0.059	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.19	0.0222	0.0619	—	pCi/L	Y	—	NQ	2016-1036	CAPA-16-114709	GELC
R-17 S1	1057	04/12/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.157	0.019	0.0524	—	pCi/L	Y	—	NQ	2016-1036	CAPA-16-114667	GELC
R-17 S1	1057	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.168	0.0233	0.0521	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93437	GELC
R-17 S1	1057	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.197	0.0225	0.041	—	pCi/L	Y	—	J	2014-3110	CAPA-14-56388	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.134	0.0177	0.0305	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.19	0.0258	0.0454	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.173	0.0265	0.0325	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.155	0.0274	0.0416	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.24	—	—	1	µg/L	Y	J	J	2016-1036	CAPA-16-114743	GELC
R-17 S1	1057	04/12/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.19	—	—	1	µg/L	Y	J	J	2016-1036	CAPA-16-114670	GELC
R-17 S1	1057	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.81	—	—	1	µg/L	Y	J	J	2015-1073	CAPA-15-93474	GELC
R-17 S1	1057	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.65	—	—	1	µg/L	Y	J	J	2014-3110	CAPA-14-56399	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.77	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.28	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.99	—	—	1	µg/L	Y	J	J	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.9	—	—	1	µg/L	Y	J	J	12-1274	CAPA-12-13308	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	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	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.89	—	—	0.01	SU	Y	H	NQ	12-1274	CAPA-12-13293	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.2	—	—	0.725	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.9	—	—	0.725	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.9	—	—	0.725	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.8	—	—	0.725	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.2	—	—	0.725	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.3	—	—	0.725	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	52.3	—	—	0.725	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0119	0.00629	0.0372	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0252	0.0101	0.043	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00737	0.04	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00837	0.00624	0.0429	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00284	0.00853	0.0438	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00375	0.0513	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00563	0.0154	0.0675	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	28.9	—	—	1	µg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.4	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.5	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	30	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.3	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.7	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.9	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.45	—	—	0.05	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.59	—	—	0.05	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.76	—	—	0.05	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.41	—	—	0.05	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.53	—	—	0.05	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.91	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.12	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.681	1.44	5.08	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.93	2.23	7.15	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.31	1.79	6.28	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.391	1.77	6.28	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0279	1.57	5.74	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.311	1.5	5.46	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.58	1.78	7.35	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.64	—	—	0.067	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.7	—	—	0.067	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.7	—	—	0.067	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.74	—	—	0.067	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.75	—	—	0.067	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.7	—	—	0.067	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.7	—	—	0.067	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.22	—	—	2	µg/L	Y	J	J	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.49	—	—	2	µg/L	Y	J	J	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.55	—	—	2	µg/L	Y	J	J	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.55	—	—	2	µg/L	Y	J	J	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.29	—	—	2	µg/L	Y	J	J	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.1	—	—	2	µg/L	Y	J	J	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.99	—	—	2	µg/L	Y	J	J	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.88	0.878	4.63	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.05	2.16	6.58	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0379	1.69	6.63	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.45	1.34	4.67	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	5.13	1.74	7.12	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.2	1.45	5.07	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.27	1.72	6.72	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.148	—	—	0.033	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.152	—	—	0.033	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.148	—	—	0.033	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.163	—	—	0.033	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.15	—	—	0.033	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.153	—	—	0.033	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.188	—	—	0.033	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.345	0.667	2.75	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.556	0.584	2.93	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.3	0.885	2.97	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.865	0.757	2.69	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0589	0.6	2.87	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.83	0.983	2.19	—	pCi/L	Y	—	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.11	0.874	2.25	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.47	0.972	2.82	—	pCi/L	Y	—	NQ	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.69	0.441	1.39	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	1.74	0.354	1.08	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.972	0.593	1.93	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.02	0.713	2.17	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.86	0.957	2.99	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.83	0.874	2.69	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.1	—	—	0.453	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.2	—	—	0.453	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.8	—	—	0.453	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.5	—	—	0.453	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.9	—	—	0.453	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.1	—	—	0.453	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.2	—	—	0.453	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.68	—	—	0.11	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.84	—	—	0.11	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.89	—	—	0.11	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.8	—	—	0.11	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.82	—	—	0.11	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.88	—	—	0.11	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.03	—	—	0.11	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.05	—	—	0.165	µg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.05	—	—	0.165	µg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.997	—	—	0.165	µg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.09	—	—	0.165	µg/L	Y	—	U	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.07	—	—	0.165	µg/L	Y	—	U	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.165	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.74	2.65	9.66	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.53	4.24	14.6	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-7.07	4.09	13.6	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.07	3.02	9.96	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.759	2.77	9.82	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.99	2.69	10.5	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.141	3.33	11.8	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.713	—	—	0.5	µg/L	Y	J	J	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.75	—	—	0.5	µg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.67	—	—	0.5	µg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.531	—	—	0.5	µg/L	Y	J	J	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.519	—	—	0.5	µg/L	Y	J	J	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.11	—	—	0.5	µg/L	Y	J	J	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.776	—	—	0.5	µg/L	Y	J	J	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.323	—	—	0.017	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.348	—	—	0.017	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.4	—	—	0.017	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.36	—	—	0.017	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.352	—	—	0.017	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.316	—	—	0.017	mg/L	Y	H	NQ	2013-778-2	CAPA-13-29679	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	326	—	—	8.5	mg/L	N	—	R	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.472	—	—	0.085	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.264	—	—	0.05	µg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.24	—	—	0.05	µg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.243	—	—	0.05	µg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.242	—	—	0.05	µg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.259	—	—	0.05	µg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.247	—	—	0.05	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.286	—	—	0.05	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00574	0.00834	0.0367	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0019	0.00571	0.0306	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00401	0.00695	0.0322	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.009	0.0532	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00274	0.00613	0.0324	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00333	0.00882	0.0495	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00338	0.0122	0.0525	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00765	0.00855	0.0348	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0038	0.00761	0.0462	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00201	0.00602	0.0487	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.018	0.0127	0.0796	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00274	0.00909	0.0485	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00333	0.00577	0.0597	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00676	0.0445	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.25	—	—	0.05	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.37	—	—	0.05	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.49	—	—	0.05	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.54	—	—	0.05	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.45	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.57	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.02	17.8	63.5	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	31.7	27.9	116	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-2.43	25.5	95.8	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-13.3	16.6	63	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	16.9	25.5	49.1	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	9.65	19.4	55.3	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.91	16.7	67.5	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.7	—	—	0.053	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.4	—	—	0.053	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	75.8	—	—	0.053	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	75.9	—	—	0.053	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77	—	—	0.053	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.6	—	—	0.053	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.6	—	—	0.053	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.8	—	—	0.1	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0607	1.41	5.26	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.95	2.66	7.65	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.295	1.85	6.18	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.71	1.53	6.52	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.209	1.87	6.07	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.23	1.51	5.29	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.92	1.45	4.54	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	3.63	µS/cm	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	109	—	—	3.63	µS/cm	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	109	—	—	3.63	µS/cm	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	1	µS/cm	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	1	µS/cm	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	1	µS/cm	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	1	µS/cm	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43.6	—	—	1	µg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	39.9	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	40.5	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	42	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	42.5	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	43.6	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0849	0.136	0.476	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.108	0.118	0.484	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.255	0.151	0.497	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.118	0.0627	0.225	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.172	0.07	0.227	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.000834	0.131	0.489	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.4	0.143	0.461	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.66	—	—	0.133	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.63	—	—	0.133	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.62	—	—	0.133	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.77	—	—	0.133	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	—	—	0.133	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	—	—	0.133	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	—	—	0.133	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	8.57	—	—	3.4	mg/L	Y	J	J	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	78.6	—	—	3.4	mg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	109	—	—	3.4	mg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0568	—	—	0.017	mg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0354	—	—	0.017	mg/L	Y	J	U	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0402	—	—	0.017	mg/L	Y	J	U	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0642	—	—	0.017	mg/L	Y	—	U	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0687	—	—	0.017	mg/L	Y	—	U	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0665	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0906	—	—	0.017	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.509	—	—	0.067	µg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.434	—	—	0.067	µg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.558	—	—	0.067	µg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.459	—	—	0.067	µg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.439	—	—	0.067	µg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.452	—	—	0.067	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.442	—	—	0.067	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.328	0.0277	0.0875	—	pCi/L	Y	—	NQ	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.317	0.0285	0.0539	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.3	0.0242	0.041	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.33	0.0273	0.0431	—	pCi/L	Y	—	NQ	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.303	0.0287	0.0499	—	pCi/L	Y	—	NQ	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.347	0.0316	0.0564	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.245	0.0342	0.0583	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0274	0.011	0.0599	—	pCi/L	Y	U	U	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0146	0.0113	0.0345	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00667	0.00667	0.0263	—	pCi/L	Y	U	U	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0238	0.00879	0.0308	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-2.56E-09	0.0106	0.0357	—	pCi/L	Y	U	U	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0182	0.0105	0.0262	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0197	0.0147	0.0417	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.157	0.0204	0.057	—	pCi/L	Y	—	NQ	2016-1036	CAPA-16-114710	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.128	0.0183	0.0455	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93438	GELC
R-17 S2	1124	04/20/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.122	0.0153	0.0346	—	pCi/L	Y	—	NQ	2015-1073	CAPA-15-93393	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.156	0.0191	0.0357	—	pCi/L	Y	—	NQ	2014-3110	CAPA-14-56389	GELC
R-17 S2	1124	04/02/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.164	0.0216	0.0414	—	pCi/L	Y	—	NQ	2014-3110	CAPA-14-56372	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.133	0.0203	0.0341	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.108	0.0213	0.0294	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	04/12/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.57	—	—	1	µg/L	Y	—	NQ	2016-1036	CAPA-16-114744	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.09	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93475	GELC
R-17 S2	1124	04/20/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.9	—	—	1	µg/L	Y	—	NQ	2015-1073	CAPA-15-93397	GELC
R-17 S2	1124	04/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.25	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56400	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-17 S2	1124	04/02/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.85	—	—	1	µg/L	Y	—	NQ	2014-3110	CAPA-14-56374	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.96	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.49	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.38	—	—	0.01	SU	Y	H	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.51	—	—	0.01	SU	Y	H	J-	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.66	—	—	0.01	SU	Y	H	J-	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.34	—	—	0.01	SU	Y	H	J-	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	—	—	0.01	SU	Y	H	J-	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	25.8	—	—	0.725	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.5	—	—	0.73	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.6	—	—	0.73	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	31.2	—	—	0.73	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	45.7	—	—	0.73	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	548	—	—	68	µg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	8880	—	—	68	µg/L	Y	N*	J+	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	5290	—	—	68	µg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	6620	—	—	68	µg/L	Y	N	J+	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00576	0.00998	0.0539	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0181	0.006	0.04	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0112	0.0048	0.036	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00703	0.012	0.031	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0171	0.01	0.038	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0931	—	—	0.017	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.03	mg/L	Y	U	UJ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.133	—	—	0.03	mg/L	Y	—	J-	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	106	—	—	1	µg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	92.9	—	—	1	µg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	40.9	—	—	1	µg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	88.6	—	—	1	µg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	51.6	—	—	1	µg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	16.6	—	—	15	µg/L	Y	J	J	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	58.8	—	—	15	µg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	41	—	—	15	µg/L	Y	J	J	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	14.7	—	—	10	µg/L	Y	J	U	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	11.8	—	—	10	µg/L	Y	J	J	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	27.9	—	—	0.05	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.9	—	—	0.05	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	6.81	—	—	0.05	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.9	—	—	0.03	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.5	—	—	0.03	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.73	1.35	4.9	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.591	1.4	4.7	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.502	1.4	4.4	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.48	1.8	5.7	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.63	1.6	3.9	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	184	—	—	3.35	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	100	—	—	0.66	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	33.2	—	—	0.33	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	172	—	—	1.3	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	67.8	—	—	0.66	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.23	1.19	5.27	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.89	1.5	5.4	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.58	1.2	4.6	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.09	2.4	8.1	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.225	1.4	4.7	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.106	—	—	0.033	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.206	—	—	0.033	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.274	—	—	0.033	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.188	—	—	0.033	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.228	—	—	0.033	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.597	0.751	2.94	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.45	1.1	2.1	—	pCi/L	Y	—	NQ	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.07	1.6	3.4	—	pCi/L	Y	—	NQ	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/11/07	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.7	1.4	3.14	—	pCi/L	Y	—	J	193550	GU07090PPBF201	GELC
Two Mile Canyon below TA-59	—	06/27/07	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.14	1.14	3.49	—	pCi/L	Y	U	U	188820	GU07060PPBF201	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	31.5	1.97	2.99	—	pCi/L	Y	—	NQ	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	17.4	1.9	2.7	—	pCi/L	Y	—	NQ	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.85	1.2	2.8	—	pCi/L	Y	—	NQ	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/11/07	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.05	1.14	2.56	—	pCi/L	Y	—	J	193550	GU07090PPBF201	GELC
Two Mile Canyon below TA-59	—	06/27/07	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.39	1.16	3.12	—	pCi/L	Y	—	J	188820	GU07060PPBF201	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	93	—	—	0.453	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	49.9	—	—	0.35	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	24.9	—	—	0.35	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.5	—	—	0.35	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.1	—	—	0.35	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	228	—	—	30	µg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	5190	—	—	30	µg/L	Y	N*	J+	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	3040	—	—	30	µg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	25.6	—	—	25	µg/L	Y	J	J	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	3600	—	—	25	µg/L	Y	N	J+	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.69	—	—	0.11	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.68	—	—	0.085	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.93	—	—	0.085	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.09	—	—	0.085	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.87	—	—	0.085	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.807	—	—	0.165	µg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.84	—	—	0.1	µg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.82	—	—	0.1	µg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.98	—	—	0.1	µg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.9	—	—	0.1	µg/L	Y	—	J	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.41	2.4	8.45	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.7	2.6	8.9	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-20.1	10	32	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	25.7	15	43	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-13.6	12	33	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0642	—	—	0.017	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	10-4049	CAPA-10-23998	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0787	—	—	0.05	µg/L	Y	J	J	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.099	—	—	0.05	µg/L	Y	J	J	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	N	0.2	—	—	0.05	µg/L	Y	U	U	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0601	—	—	0.05	µg/L	Y	J	J	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	N	0.2	—	—	0.05	µg/L	Y	U	U	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00237	0.00627	0.0455	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00254	0.0044	0.023	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00236	0.0024	0.043	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00325	0.0023	0.023	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00552	0.0097	0.028	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00474	0.0111	0.043	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0101	0.0062	0.037	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00368	0.0053	0.042	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.013	0.0046	0.028	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00712	0.0068	0.037	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	13.8	—	—	0.05	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.37	—	—	0.05	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.85	—	—	0.05	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.05	—	—	0.05	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	32.6	15.8	49.9	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	31.8	16	61	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.1	16	46	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.6	30	89	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.3	30	37	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	20.2	—	—	0.053	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.3	—	—	0.053	mg/L	Y	N	J+	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	42.7	—	—	0.053	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	19	—	—	0.032	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	44.4	—	—	0.032	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	84.2	—	—	0.1	mg/L	Y	—	J+	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	72.8	—	—	0.1	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	43.7	—	—	0.1	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	88.9	—	—	0.045	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	57.2	—	—	0.045	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.755	1.42	5.29	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.35	1.1	4.2	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.415	1.5	4.8	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.75	2.2	6.3	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.51	1.6	4.8	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	792	—	—	3.63	µS/cm	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	503	—	—	1	µS/cm	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	252	—	—	1	µS/cm	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	658	—	—	1	µS/cm	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	360	—	—	1	µS/cm	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	145	—	—	1	µg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.5	—	—	1	µg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC

Table C-2 Pajarito 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	Units	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	40	—	—	1	µg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	137	—	—	1	µg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.2	—	—	1	µg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.311	0.15	0.487	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.341	0.16	0.49	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00801	0.12	0.47	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.372	0.16	0.49	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0594	0.14	0.48	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.7	—	—	0.133	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.1	—	—	0.1	mg/L	Y	—	J+	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.8	—	—	0.1	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.13	—	—	0.1	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.49	—	—	0.1	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	464	—	—	3.4	mg/L	Y	—	NQ	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	323	—	—	2.4	mg/L	Y	—	NQ	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	2.4	mg/L	Y	—	NQ	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	380	—	—	2.4	mg/L	Y	—	NQ	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	260	—	—	2.4	mg/L	Y	—	NQ	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.03	—	—	0.33	mg/L	Y	—	NQ	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	15	—	—	0.66	mg/L	Y	—	NQ	10-4048	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	7.22	—	—	0.66	mg/L	Y	—	NQ	09-3276	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.44	—	—	0.33	mg/L	Y	—	NQ	09-1046	CAPA-09-4061	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.36	—	—	0.33	mg/L	Y	—	NQ	09-552	CAPA-09-1075	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.017	—	—	0.017	mg/L	Y	J	J	2016-1098	CAPA-16-114771	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.078	—	—	0.015	mg/L	Y	—	U	10-4049	CAPA-10-23998	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.094	—	—	0.015	mg/L	Y	—	U	09-3278	CAPA-09-12077	GELC
Two Mile Canyon below TA-59	—	02/27/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.047	—	—	0.024	mg/L	Y	J	J	09-1047	CAPA-09-4060	GELC
Two Mile Canyon below TA-59	—	12/19/08	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.253	—	—	0.024	mg/L	Y	—	J	09-552	CAPA-09-1076	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0407	0.0101	0.0767	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0744	0.02	0.12	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.121	0.023	0.098	—	pCi/L	Y	—	NQ	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.126	0.026	0.14	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0216	0.022	0.19	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-7.99E-10	0.00587	0.0525	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0102	0.0073	0.057	—	pCi/L	Y	U	U	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00341	0.009	0.05	—	pCi/L	Y	U	U	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	2.91E-10	0.0069	0.072	—	pCi/L	Y	U	U	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00667	0.0067	0.1	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	GELC
Two Mile Canyon below TA-59	—	04/20/16	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0349	0.0095	0.0499	—	pCi/L	Y	U	U	2016-1098	CAPA-16-114737	GELC
Two Mile Canyon below TA-59	—	08/06/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0912	0.021	0.073	—	pCi/L	Y	—	NQ	10-4049	CAPA-10-23997	GELC
Two Mile Canyon below TA-59	—	09/17/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0856	0.02	0.06	—	pCi/L	Y	—	NQ	09-3278	CAPA-09-12078	GELC
Two Mile Canyon below TA-59	—	09/15/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.134	0.026	0.071	—	pCi/L	Y	—	NQ	08-1950	CAPA-08-14892	GELC
Two Mile Canyon below TA-59	—	06/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0216	0.023	0.12	—	pCi/L	Y	U	U	08-1349	CAPA-08-13037	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	Unit	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level Code	Result/Screening Level
Alluvial	18-MW-18	12.5	04/08/16	General Chemistry	Chloride	Cl(-1)	F[a]	INIT[b]	REG[c]	Y[d]	267	3.35	mg/L	50	—[e]	NQ[f]	NQ	Y	EPA:300.0	GELC[g]	250	NMWQCC GW STD[h]	1.07
Alluvial	18-MW-18	12.5	04/08/16	General Chemistry	Chloride	Cl(-1)	F	INIT	FD[i]	Y	263	3.35	mg/L	50	—	NQ	NQ	Y	EPA:300.0	GELC	250	NMWQCC GW STD	1.05
Alluvial	18-MW-18	12.5	04/08/16	General Chemistry	Total Dissolved Solids	TDS	F	INIT	REG	Y	813	3.4	mg/L	1	—	NQ	NQ	Y	EPA:160.1	GELC	1000	NMWQCC GW STD	0.81
Alluvial	18-MW-18	12.5	04/08/16	General Chemistry	Total Dissolved Solids	TDS	F	INIT	FD	Y	801	3.4	mg/L	1	—	NQ	NQ	Y	EPA:160.1	GELC	1000	NMWQCC GW STD	0.80

[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.

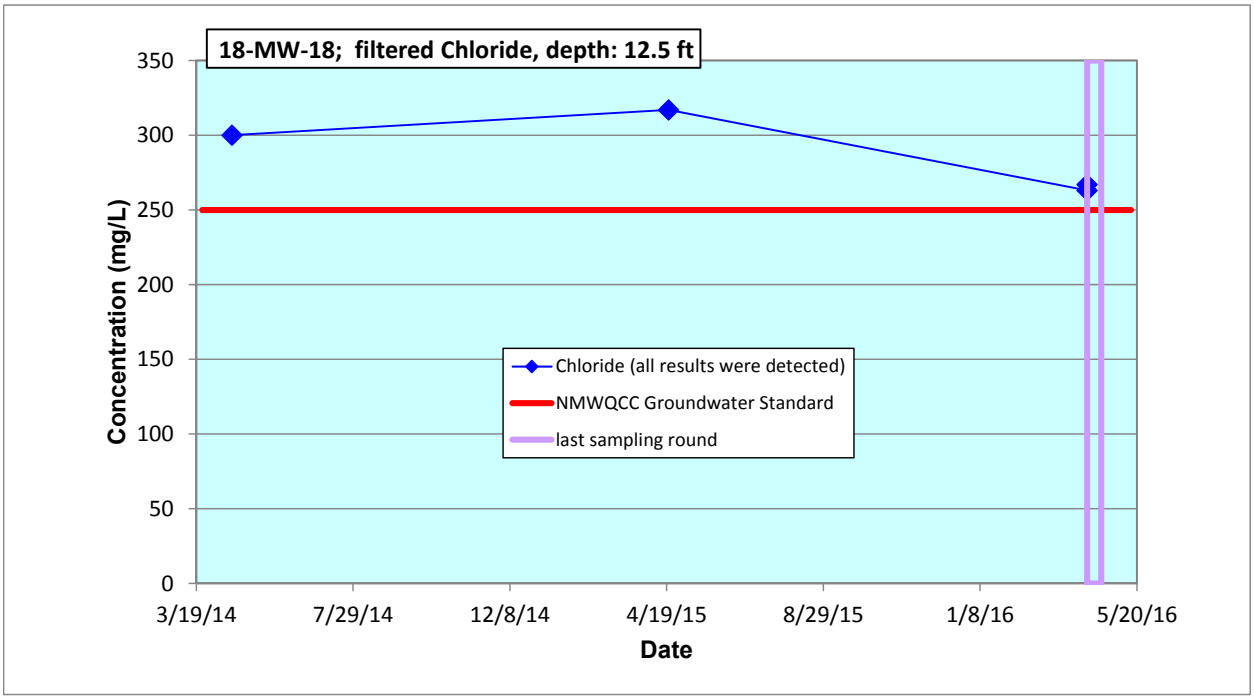
[h] NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

[i] FD = Field duplicate.

Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances

Note: The depths in the concentration plots are screen top depths (see Table 2.0-1).



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)
2016-1017	Inorganic	GELC[a]	CAPA-16-114669	04/08/16	18-MW-18	12.5	23
2016-1017	Inorganic	GELC	CAPA-16-114666	04/08/16	18-MW-18	12.5	23
2016-1017	Inorganic	GELC	CAPA-16-114705	04/08/16	18-MW-18	12.5	23
2016-1017	Inorganic	GELC	CAPA-16-114739	04/08/16	18-MW-18	12.5	23
2016-1017	Organic	GELC	CAPA-16-114666	04/08/16	18-MW-18	12.5	23
2016-1017	Organic	GELC	CAPA-16-114705	04/08/16	18-MW-18	12.5	23
2016-1017	Rad[b]	GELC	CAPA-16-114666	04/08/16	18-MW-18	12.5	23
2016-1017	Rad	GELC	CAPA-16-114705	04/08/16	18-MW-18	12.5	23
2016-1036	Inorganic	GELC	CAPA-16-114667	04/12/16	R-17 S1	1057	1080
2016-1036	Inorganic	GELC	CAPA-16-114670	04/12/16	R-17 S1	1057	1080
2016-1036	Inorganic	GELC	CAPA-16-114743	04/12/16	R-17 S1	1057	1080
2016-1036	Inorganic	GELC	CAPA-16-114744	04/12/16	R-17 S2	1124	1134
2016-1036	Inorganic	GELC	CAPA-16-114709	04/12/16	R-17 S1	1057	1080
2016-1036	Inorganic	GELC	CAPA-16-114710	04/12/16	R-17 S2	1124	1134
2016-1036	Organic	GELC	CAPA-16-114667	04/12/16	R-17 S1	1057	1080
2016-1036	Organic	GELC	CAPA-16-114710	04/12/16	R-17 S2	1124	1134
2016-1036	Organic	GELC	CAPA-16-114709	04/12/16	R-17 S1	1057	1080
2016-1036	Rad	GELC	CAPA-16-114667	04/12/16	R-17 S1	1057	1080
2016-1036	Rad	GELC	CAPA-16-114709	04/12/16	R-17 S1	1057	1080
2016-1036	Rad	GELC	CAPA-16-114710	04/12/16	R-17 S2	1124	1134
2016-1098	Inorganic	GELC	CAPA-16-114771	04/20/16	Two Mile Canyon below TA-59	—[c]	—
2016-1098	Inorganic	GELC	CAPA-16-114737	04/20/16	Two Mile Canyon below TA-59	—	—
2016-1098	Organic	GELC	CAPA-16-114737	04/20/16	Two Mile Canyon below TA-59	—	—
2016-1098	Rad	GELC	CAPA-16-114737	04/20/16	Two Mile Canyon below TA-59	—	—
2016-1099	Inorganic	GELC	CAPA-16-114707	04/20/16	PCAO-8	9.7	19.7
2016-1099	Inorganic	GELC	CAPA-16-114741	04/20/16	PCAO-8	9.7	19.7
2016-1099	Organic	GELC	CAPA-16-114707	04/20/16	PCAO-8	9.7	19.7

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

[b] Rad = Radiochemistry (not gamma).

[c] — = Not applicable.