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Periodic Monitoring Report for Mortandad and Sandia Watershed General Surveillance Monitoring Group, July 8–July 25, 2014

Los Alamos
NATIONAL LABORATORY
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Prepared by the Environmental Programs Directorate

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the fiscal year 2014, fourth quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Mortandad and Sandia watershed portion of the General Surveillance monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from July 8 to July 25, 2014, and included the monitoring of groundwater wells or well screens and base-flow locations. This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of the current PME are also included in this report.

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

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

Three results from previous sampling of PME groundwater monitoring locations reported in this PMR were above applicable screening levels. One result from groundwater locations sampled during the current PME was above applicable screening levels.

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Acronyms and Abbreviations

amsl	above mean sea level
AOC	area of concern
AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations (U.S.)
cfs	cubic feet per second
Consent Order	Compliance Order on Consent
DCS	Derived Concentration Technical Standard (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
F	filtered
gpm	gallons per minute
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MDL	method detection limit
N	no (best value flag 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
PQL	practical quantitation limit
QC	quality control
RLWTF	Radioactive Liquid Waste Treatment Facility
RPF	Records Processing Facility
SOP	standard operating procedure
SWMU	solid waste management unit
TA	technical area
VOC	volatile organic compound
Y	yes (best value flag code)

1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of fiscal year 2014, fourth quarter, annual groundwater and surface-water monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Mortandad and Sandia watershed portion of the General Surveillance monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014 (2014 IFGMP) (LANL 2013, 241962), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from July 8 to July 25, 2014, and included sampling of groundwater wells or well screens and surface-water locations.

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

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

This report presents the following information:

- general background information on the monitoring group
- field-measurement monitoring results
- water-quality monitoring results
- screening analysis results (comparing these PME results with 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 2014 IFGMP (LANL 2013, 241962) 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 Mortandad and Sandia watershed portion of the General Surveillance monitoring group.

Other wells in Mortandad and Sandia Canyons are assigned to the Chromium Investigation monitoring group, which is located in Mortandad and Sandia Canyons. Monitoring focuses on the characterization and fate and transport of chromium contamination in intermediate-perched groundwater and within the regional aquifer. The distribution of wells in the monitoring group also addresses historical releases from Outfall 051, which discharges from the Radioactive Liquid Waste Treatment Facility (RLWTF) in the

Mortandad Canyon watershed. Effluent discharge was suspended in 2011 because of process changes at the RLWTF.

Sandia Canyon heads on Laboratory property within Technical Area 03 (TA-03) at an elevation of approximately 7300 ft and trends east-southeast across the Laboratory, Bandelier National Monument, and San Ildefonso Pueblo. Sandia Canyon empties into the Rio Grande in White Rock Canyon at an elevation of 5450 ft. The area of the Sandia Canyon watershed is approximately 5.5 mi^2. Perennial stream flow and saturated alluvial groundwater conditions occur in the upper and middle portions of the canyon system because sanitary wastewater and cooling tower effluent discharge to the canyon from operating facilities. A wetland of approximately 7 acres has developed as a result of the effluent discharge. The only known perennial spring in the watershed (Sandia Spring) is located in lower Sandia Canyon near the Rio Grande. TAs located in the Sandia Canyon watershed include TA-03, TA-53, TA-60, TA-61, TA-72, and former TA-20. A total of 264 solid waste management units (SWMUs) and areas of concern (AOCs) are located within the portions of these TAs in the Sandia Canyon watershed.

Mortandad Canyon is an east-to-southeast trending canyon that heads on the Pajarito Plateau near the main Laboratory complex at TA-03 at an elevation of 7380 ft. The drainage extends about 9.6 mi from its headwaters to its confluence with the Rio Grande at an elevation of 5440 ft. The canyon crosses San Ildefonso Pueblo land for several miles before joining the Rio Grande (LANL 1997, 056835). The Mortandad Canyon watershed is located in the central portion of the Laboratory and covers approximately 10 mi^2. The Mortandad Canyon watershed contains several tributary canyons that have received contaminants released during Laboratory operations, including Ten Site Canyon, Pratt Canyon, Effluent Canyon, and Cañada del Buey. TAs located in the Mortandad Canyon watershed include TA-03, TA-05, TA-35, TA-48, TA-50, TA-52, TA-55, TA-60, TA-63, former TA-04, and former TA-42. A total of 257 SWMUs and AOCs are located within the portions of these TAs in the Mortandad Canyon watershed.

Chromium concentrations exceed the NMED groundwater standard in Mortandad Canyon regional aquifer wells R-28, R-62, R-42, R-43, and R-50. Other constituents detected above background in wells in the monitoring group include nitrate, perchlorate, and tritium. A conceptual model for the sources and distribution of these contaminants is presented in the Investigation Report for Sandia Canyon (LANL 2009, 107453) and the Phase II Investigation Report for Sandia Canyon (LANL 2012, 228624).

The conceptual model hypothesizes that chromium and other contaminants originate from releases into Sandia Canyon with lateral migration pathways that move contamination to locations beneath Mortandad Canyon. For this reason, intermediate-perched and regional wells beneath Mortandad Canyon are included in the Chromium Investigation monitoring group. Other areas of contamination beneath Sandia and Mortandad Canyons may be associated with Mortandad Canyon sources. These sources and the migration pathways are described in the Investigation Report for Sandia Canyon (LANL 2009, 107453) and the Phase II Investigation Report for Sandia Canyon (LANL 2012, 228624).

2.0 SCOPE OF ACTIVITIES

The PME for the Mortandad and Sandia watershed portion of the General Surveillance monitoring group was conducted pursuant to the 2014 IFGMP (LANL 2013, 241962).

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 2014 IFGMP (LANL 2013, 241962).

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. The groundwater-elevation measurements are shown graphically on Plate 1. Similarly, base-flow measurements are shown graphically in Figure 3.3-1.

3.4 Deviations from Planned Scope

Table 3.4-1 describes the fieldwork deviations from the planned scope of the PME. Table 3.4-2 presents a list of analytes for which the method detection limits (MDLs) are greater than screening levels. For some of these analytes, the MDL is much lower than for earlier analyses: the MDL for hexachlorobenzene is 0.3% of the prior MDL, and the MDL for n-nitrosodimethylamine is 15% of the prior MDL. The MDL for 2-chloro-1,3-butadiene is just 5% above the EPA regional tap water screening level. Table 3.4-3 presents a list of analytes for which the MDLs are now below screening levels.

4.0 ANALYTICAL DATA RESULTS

4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of the PME are documented in the 2014 IFGMP (LANL 2013, 241962). Purge water is managed and characterized in accordance with waste profile form 39268, a copy of which was included in Appendix F of a previous PMR (LANL 2008, 103737), and ENV-RCRA-QP-010.3, Land Application of Groundwater. ENV-RCRA-QP-010.3 implements the NMED-approved Notice of Intent Decision Tree for land application of drilling, development, rehabilitation, and sampling of purge water.

All sampling, data reviews, and data package validations were conducted using standard operating procedures (SOPs) that are part of a comprehensive quality assurance program. The procedures are listed at http://www.lanl.gov/community-environment/environmental-stewardship/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 laboratory practices. The analytical laboratory assigns qualifiers to the data to indicate the quality of the analytical results. The laboratory batch QC is used in the secondary data validation process to evaluate the quality of individual analytical results,

evaluate the appropriateness of the analytical methodologies, and measure the routine performance of the analytical laboratory.

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

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

Data validation determines the quality of an analytical data set. Data validation focuses on specific quality assurance samples, such as matrix spikes, duplicates, surrogates, method blanks, 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 follow the guidelines set in the DOE model SOP for data validation, which includes reviewing the data quality and the documentation's correctness and completeness, verifying that holding times were met, and ensuring that analytical laboratory QC measures were applied, documented, and kept within contract requirements. As a result of secondary validation, a second set of qualifiers was assigned to the analytical results.

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

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

4.2 Analytical Data

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

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

- All data
    - ❖ Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered unusable but are still reported.
    - ❖ Analytical laboratory QC results, including matrix spike and matrix spike duplicates, and field blanks, trip blanks, and equipment blanks are not included in the data set.
    - ❖ Field duplicates, reanalyses, and results from different analytical methods are reported.

- Radionuclides
    - ❖ Only cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
    - ❖ Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.
    - ❖ Otherwise, all results are reported at all locations.
- Nonradionuclides
    - ❖ All detected results are reported.

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

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

- The base-flow monitoring locations are assigned to one of two screening categories—perennial or ephemeral (Table 4.2-2). Along with a hardness value, this category determines the screening levels used for data at each monitoring location. Hardness-dependent screening levels used to screen data at each base-flow monitoring location are determined using the geometric mean of hardness data (mg/L as calcium carbonate) collected from 2006 to 2010 at each location (Table 4.2-2). Hardness-dependent acute and chronic criteria were used for total aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.
- Surface-water and groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order.
- Other groundwater data are screened to groundwater cleanup levels described in Section VIII.A.1 of the Consent Order; for an individual substance, the lesser of the EPA MCL or the NMWQCC groundwater standard is used.
- If an NMWQCC standard or an MCL has not been established for a specific substance for which toxicological information is published, the EPA regional screening levels for tap water (formerly Region 6 screening levels for tap water) are used as the groundwater cleanup level. These screening levels are for either a cancer- or noncancer-risk type. The Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels are for 10^{-6} excess cancer risk, so 10 times the EPA 10^{-6} screening levels are used for screening. This report was prepared using the May 2014 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 radioactivity are compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Technical Standards (DCSs) for groundwater.

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

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

Graphs in Appendix E display concentration histories of analytes for locations where the analyte was above its screening level at least once during the three most recent PMEs. Appendix E contains all locations where screening levels were exceeded, not just those scheduled to be sampled during this PME. 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.

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

4.2.1 Surface Water (Base Flow)

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

4.2.2 Groundwater

Results for several samples collected before the current PME are included in this report. For alluvial well MCO-7, the November 21, 2013; January 29, 2014; and May 21, 2014, perchlorate concentrations were 9.38 µg/L, 11.1 µg/L, and 12.1 µg/L, respectively. For the current PME, the July 17, 2014, perchlorate concentration was 12 µg/L. All four results were above the Consent Order screening level of 4 µg/L. Alluvial groundwater concentrations of perchlorate have decreased from about 280 µg/L, following the removal of perchlorate from RLWTF effluent in March 2002. Recently, concentrations have increased from a low of 6.23 µg/L in August 2012.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the Mortandad and Sandia 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 sampling of PME surface-water monitoring locations reported in this PMR were above applicable screening levels. No results from surface-water locations sampled during the current PME were above applicable screening levels.

5.2.2 Groundwater

Three results from previous sampling of PME groundwater monitoring locations reported in this PMR were above applicable screening levels. One result from groundwater locations sampled during the current PME was above applicable 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 Mortandad and Sandia 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. This information is also included in text citations. ER IDs are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.

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

LANL (Los Alamos National Laboratory), September 1997. "Work Plan for Mortandad Canyon," Los Alamos National Laboratory document LA-UR-97-3291, Los Alamos, New Mexico. (LANL 1997, 056835)

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

LANL (Los Alamos National Laboratory), October 2009. "Investigation Report for Sandia Canyon," Los Alamos National Laboratory document LA-UR-09-6450, Los Alamos, New Mexico. (LANL 2009, 107453)

LANL (Los Alamos National Laboratory), September 2012. "Phase II Investigation Report for Sandia Canyon," Los Alamos National Laboratory document LA-UR-12-24593, Los Alamos, New Mexico. (LANL 2012, 228624)

LANL (Los Alamos National Laboratory), May 2013. "Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014," Los Alamos National Laboratory document LA-UR-13-23479, Los Alamos, New Mexico. (LANL 2013, 241962)

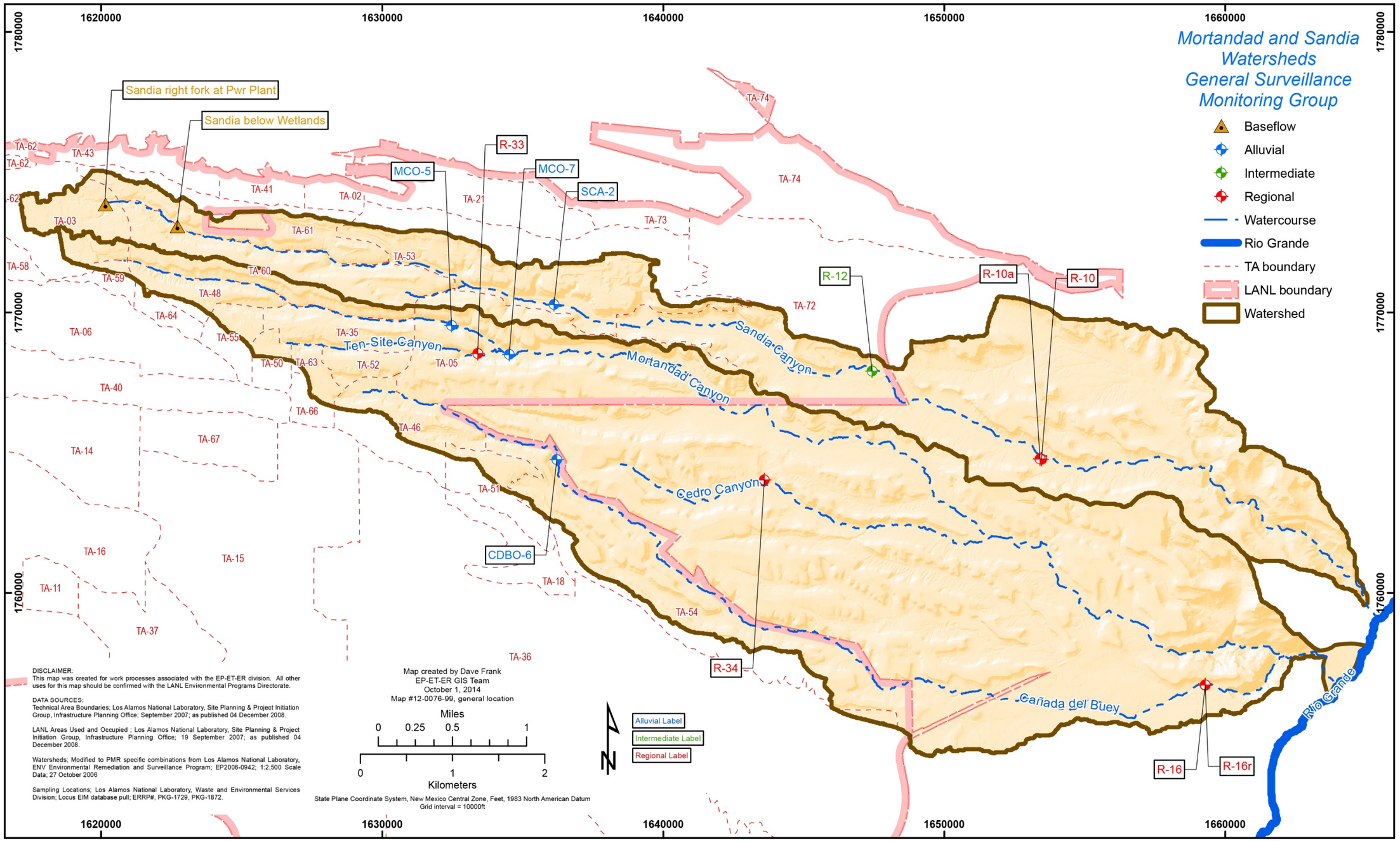


Figure 2.0-1 Locations scheduled to be monitored for this PME (see Table 3.4-1)

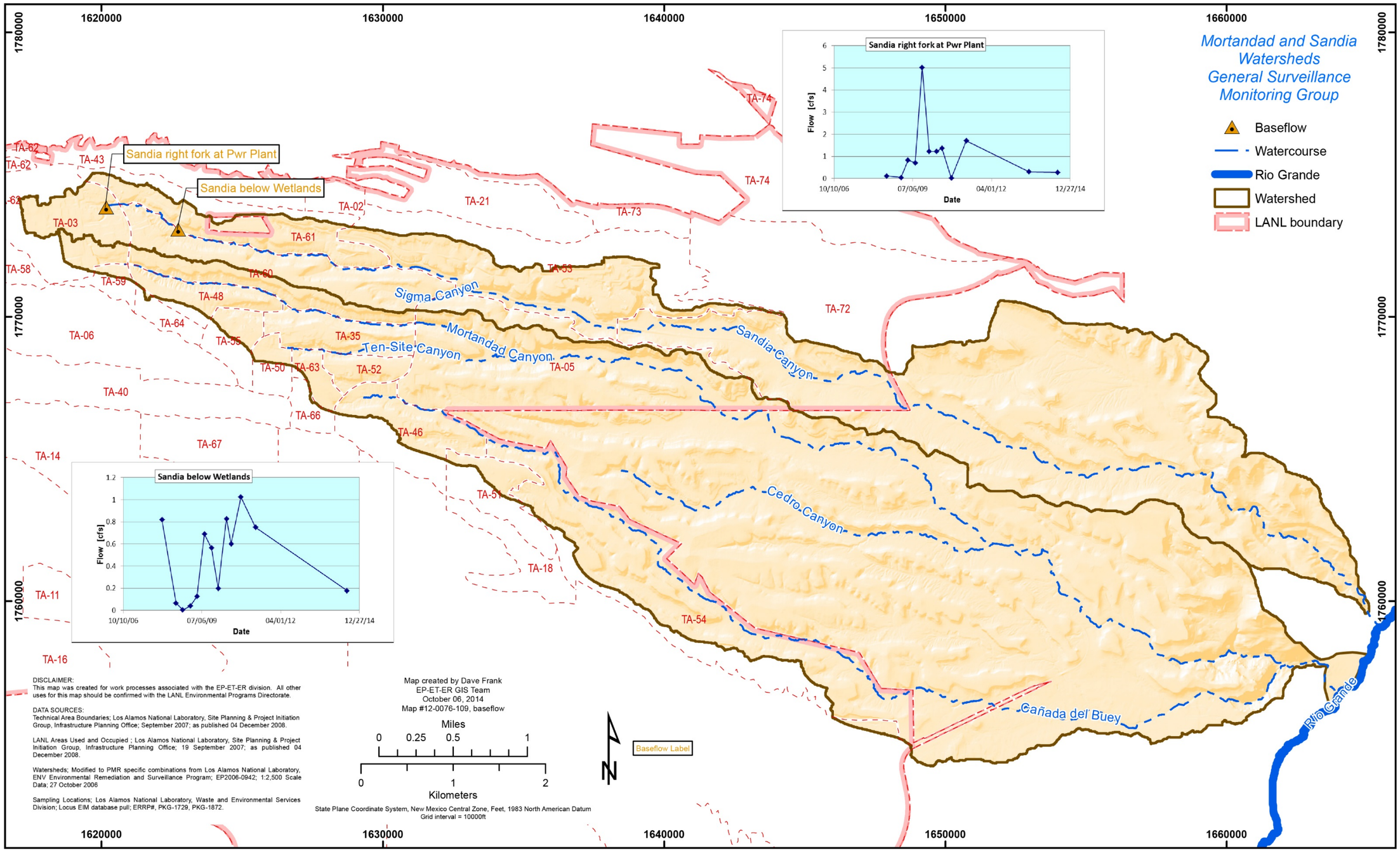


Figure 3.3-1 Base-flow measurements

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

Location Name	Sample Collection Date	Screened Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge Rate (gpm[a])
Base Flow							
Sandia below Wetlands	07/21/14	n/a[b]	n/a	n/a	n/a	n/a	80.30
Sandia right fork at Pwr Plant	07/21/14	n/a	n/a	n/a	n/a	n/a	126.00
Alluvial							
CDBO-6	n/a	10	34	44	n/a	n/a	n/a
MCO-5	n/a	25	21	46	n/a	n/a	n/a
MCO-7	07/17/14	30	39	69	9.4	9.5	0.05
SCA-2	n/a	5	10	15	n/a	n/a	n/a
Intermediate							
R-12 S1	07/16/14	8.5	459	468	32.9	144.8	1.11
R-12 S2	07/21/14	4	505	508	53.77	288	12
Regional							
R-10 S1	n/a	23	874	897	n/a	n/a	n/a
R-10 S2	n/a	23	1042	1065	n/a	n/a	n/a
R-10a	n/a	10	690	700	n/a	n/a	n/a
R-16 S2	07/23/14	7.5	863	871	217.96	657.94	4.91
R-16 S4	07/22/14	7.6	1237	1245	44.4	267	3.23
R-16r	07/16/14	17.6	600	617.6	54.49	165.85	5.35
R-33 S1	07/09/14	23	995.5	1018.5	74.34	231	3.3
R-33 S2	07/09/14	9.9	1112.4	1122.3	40.4	121.5	2.7
R-34	n/a	22.9	883.7	906.6	n/a	n/a	n/a

[a] gpm = Gallons per minute.

[b] n/a = Not applicable.

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

Location	Deviation	Cause	Comment
SCA-2	No data are included in this report for this location.	The well was destroyed during the September 2013 flood event.	No replacement well is available.
CDBO-6, MCO-5	No data are included in this report for these locations.	These locations were not sampled because they were dry.	These locations will be sampled during the next scheduled PME.
R-10 S1, R-10 S2, R-10a, and R-34	No data are included in this report for these locations.	These locations were not sampled because they were not accessible.	These locations will be sampled in the first quarter of monitoring year 2015 if accessible.

Table 3.4-2
Analytes with MDLs above Screening Levels

Analyte or CAS[a] No.	Analyte Name	MDL	PQL[b]	Screening Level	Unit	Screening-Level Type
Semivolatile Organic Compounds						
103-33-3	Azobenzene	3.12	10.39	1.2	µg/L	EPA Regional Tap
92-87-5	Benzidine	4.05	10.39	0.00110	µg/L	EPA Regional Tap
111-44-4	Bis(2-chloroethyl)ether	3.12	10.39	0.14	µg/L	EPA Regional Tap
91-94-1	Dichlorobenzidine[3,3'-]	3.12	10.39	0.28	µg/L	NM HH OO[c]
534-52-1	Dinitro-2-methylphenol[4,6-]	3.12	10.39	1.5	µg/L	EPA Regional Tap
118-74-1	Hexachlorobenzene	0.00650	0.0208	0.0029	µg/L	NM HH OO
55-18-5	Nitrosodiethylamine[N-]	3.12	10.39	0.0017	µg/L	EPA Regional Tap
62-75-9	Nitrosodimethylamine[N-]	3.12	10.39	0.0049	µg/L	EPA Regional Tap
924-16-3	Nitroso-di-n-butylamine[N-]	3.12	10.39	0.027	µg/L	EPA Regional Tap
621-64-7	Nitroso-di-n-propylamine[N-]	3.12	10.39	0.11	µg/L	EPA Regional Tap
930-55-2	Nitrosopyrrolidine[N-]	3.12	10.39	0.37	µg/L	EPA Regional Tap
Volatile Organic Compounds						
107-02-8	Acrolein	1.5	5.0	0.042	µg/L	EPA Regional Tap
107-13-1	Acrylonitrile	1.05	5.0	0.52	µg/L	EPA Regional Tap
126-99-8	Chloro-1,3-butadiene[2-]	0.210	1.0	0.19	µg/L	EPA Regional Tap
96-18-4	Trichloropropane[1,2,3-]	0.3	1.0	0.0075	µg/L	EPA Regional Tap

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

[a] CAS = Chemical Abstracts Service.

[b] PQL = Practical quantitation limit.

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

Table 3.4-3
Analytes with MDLs Now below Screening Levels

Analyte or CAS[a] No.	Analyte Name	MDL	PQL[b]	Screening Level	Unit	Screening-Level Type
Semivolatile Organic Compounds						
56-55-3	Benzo(a)anthracene	0.0168	0.0524	0.18	µg/L	NM HH OO[c]
50-32-8	Benzo(a)pyrene	0.0168	0.0524	0.18	µg/L	NM HH OO
205-99-2	Benzo(b)fluoranthene	0.0168	0.0524	0.18	µg/L	NM HH OO
53-70-3	Dibenz(a,h)anthracene	0.0168	0.0524	0.034	µg/L	EPA Regional Tap
193-39-5	Indeno(1,2,3-cd)pyrene	0.0168	0.0524	0.18	µg/L	NM HH OO
87-86-5	Pentachlorophenol	0.0523	0.261	1	µg/L	EPA MCL
Volatile Organic Compounds						
96-12-8	Dibromo-3-chloropropane[1,2-]	0.00596	0.0199	0.2	µg/L	EPA MCL
106-93-4	Dibromoethane[1,2-]	0.00596	0.0199	0.05	µg/L	EPA MCL
126-98-7	Methacrylonitrile	1.05	5.0	1.9	µg/L	EPA Regional Tap

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

[a] CAS = Chemical Abstracts Service.

[b] PQL = Practical quantitation limit.

[c] 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 BCGs	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 Primary Drinking Water Standard	X	n/a
EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites	EPA Regional Screening Levels for Tap Water	X	n/a
20 NMAC 3.4	New Mexico Environmental Improvement Board Radiation Protection Standards	X	X
20 NMAC 6.2	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Acute	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Chronic	n/a	X
20 NMAC 6.4	NMWQCC Human Health Standard	n/a	X

[a] n/a = Not applicable.

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

[c] CFR = Code of Federal Regulations.

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

Watershed	Location	Stream Type	Hardness (mg/L as $CaCO_3$)
Sandia	Sandia right fork at Power Plant	Perennial	100
Sandia	Sandia below Wetlands	Perennial	100

Table 4.2-3
Mortandad and Sandia 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							
MCO-7	11/21/13	Perchlorate	F*	9.38	µg/L	4	Consent Order
MCO-7	01/29/14	Perchlorate	F	11.1	µg/L	4	Consent Order
MCO-7	05/21/14	Perchlorate	F	12.1	µg/L	4	Consent Order
MCO-7	07/17/14	Perchlorate	F	12	µg/L	4	Consent Order

*F = Filtered.

Appendix A

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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
MCO-7	39	07/17/14	WG[a]	Dissolved Oxygen	7.34	mg/L	CAMO-14-81571
MCO-7	39	05/21/14	WG	Dissolved Oxygen	7.42	mg/L	CAMO-14-76546
MCO-7	39	01/29/14	WG	Dissolved Oxygen	8.42	mg/L	CAMO-14-53820
MCO-7	39	11/21/13	WG	Dissolved Oxygen	7.72	mg/L	CAMO-14-45679
MCO-7	39	08/14/12	WG	Dissolved Oxygen	7.89	mg/L	CAMO-12-21784
MCO-7	39	07/17/14	WG	Flow (in gpm[b])	0.05	gpm	CAMO-14-81571
MCO-7	39	05/21/14	WG	Flow (in gpm)	0.05	gpm	CAMO-14-76546
MCO-7	39	01/29/14	WG	Flow (in gpm)	0.18	gpm	CAMO-14-53820
MCO-7	39	11/10/11	WG	Flow (in gpm)	0.02	gpm	CAMO-12-1459
MCO-7	39	08/03/11	WG	Flow (in gpm)	0.09	gpm	CAMO-11-24622
MCO-7	39	07/17/14	WG	Oxidation-Reduction Potential	157.6	mV	CAMO-14-81571
MCO-7	39	05/21/14	WG	Oxidation-Reduction Potential	195.8	mV	CAMO-14-76546
MCO-7	39	01/29/14	WG	Oxidation-Reduction Potential	-1.8	mV	CAMO-14-53820
MCO-7	39	11/21/13	WG	Oxidation-Reduction Potential	151	mV	CAMO-14-45679
MCO-7	39	08/14/12	WG	Oxidation-Reduction Potential	249	mV	CAMO-12-21784
MCO-7	39	07/17/14	WG	pH	6.57	SU[c]	CAMO-14-81571
MCO-7	39	05/21/14	WG	pH	6.66	SU	CAMO-14-76546
MCO-7	39	01/29/14	WG	pH	6.11	SU	CAMO-14-53820
MCO-7	39	11/21/13	WG	pH	6.83	SU	CAMO-14-45679
MCO-7	39	08/14/12	WG	pH	6.73	SU	CAMO-12-21784
MCO-7	39	07/17/14	WG	Specific Conductance	859	µS/cm	CAMO-14-81571
MCO-7	39	05/21/14	WG	Specific Conductance	847	µS/cm	CAMO-14-76546
MCO-7	39	01/29/14	WG	Specific Conductance	511	µS/cm	CAMO-14-53820
MCO-7	39	11/21/13	WG	Specific Conductance	472	µS/cm	CAMO-14-45679
MCO-7	39	08/14/12	WG	Specific Conductance	479	µS/cm	CAMO-12-21784
MCO-7	39	07/17/14	WG	Temperature	12.44	deg C	CAMO-14-81571
MCO-7	39	05/21/14	WG	Temperature	12.49	deg C	CAMO-14-76546
MCO-7	39	01/29/14	WG	Temperature	10.12	deg C	CAMO-14-53820
MCO-7	39	11/21/13	WG	Temperature	10.29	deg C	CAMO-14-45679

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
MCO-7	39	08/14/12	WG	Temperature	11.29	deg C	CAMO-12-21784
MCO-7	39	07/17/14	WG	Turbidity	0.8	NTU[d]	CAMO-14-81571
MCO-7	39	05/21/14	WG	Turbidity	4.3	NTU	CAMO-14-76546
MCO-7	39	01/29/14	WG	Turbidity	1.9	NTU	CAMO-14-53820
MCO-7	39	11/21/13	WG	Turbidity	15.3	NTU	CAMO-14-45679
MCO-7	39	08/14/12	WG	Turbidity	2.98	NTU	CAMO-12-21784
R-12 S1	459	07/16/14	WG	Dissolved Oxygen	0.14	mg/L	CASA-14-84037
R-12 S1	459	07/25/13	WG	Dissolved Oxygen	0.16	mg/L	CASA-13-37010
R-12 S1	459	08/20/12	WG	Dissolved Oxygen	0.27	mg/L	CASA-12-21769
R-12 S1	459	06/03/11	WG	Dissolved Oxygen	0.2	mg/L	CASA-11-11638
R-12 S1	459	06/03/11	WG	Dissolved Oxygen	0.24	mg/L	CASA-11-10823
R-12 S1	459	06/03/11	WG	Dissolved Oxygen	0.25	mg/L	CASA-11-11633
R-12 S1	459	06/03/11	WG	Dissolved Oxygen	0.22	mg/L	CASA-11-11635
R-12 S1	459	11/17/10	WG	Dissolved Oxygen	0.45	mg/L	CASA-11-1356
R-12 S1	459	07/16/14	WG	Flow (in gpm)	1.1	gpm	CASA-14-84037
R-12 S1	459	06/03/11	WG	Flow (in gpm)	0.9	gpm	CASA-11-11638
R-12 S1	459	06/03/11	WG	Flow (in gpm)	0.9	gpm	CASA-11-10823
R-12 S1	459	06/03/11	WG	Flow (in gpm)	0.9	gpm	CASA-11-11633
R-12 S1	459	06/03/11	WG	Flow (in gpm)	0.9	gpm	CASA-11-11635
R-12 S1	459	11/17/10	WG	Flow (in gpm)	1.1	gpm	CASA-11-1356
R-12 S1	459	05/05/10	WG	Flow (in gpm)	1.1	gpm	CASA-10-16747
R-12 S1	459	02/09/10	WG	Flow (in gpm)	1	gpm	CASA-10-9446
R-12 S1	459	07/16/14	WG	Oxidation-Reduction Potential	-200.7	mV	CASA-14-84037
R-12 S1	459	07/25/13	WG	Oxidation-Reduction Potential	-112	mV	CASA-13-37010
R-12 S1	459	08/20/12	WG	Oxidation-Reduction Potential	-164.1	mV	CASA-12-21769
R-12 S1	459	06/03/11	WG	Oxidation-Reduction Potential	-193	mV	CASA-11-11638
R-12 S1	459	06/03/11	WG	Oxidation-Reduction Potential	-177.3	mV	CASA-11-10823
R-12 S1	459	06/03/11	WG	Oxidation-Reduction Potential	-219.4	mV	CASA-11-11633
R-12 S1	459	06/03/11	WG	Oxidation-Reduction Potential	-203.1	mV	CASA-11-11635

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-12 S1	459	11/17/10	WG	Oxidation-Reduction Potential	-174.2	mV	CASA-11-1356
R-12 S1	459	07/16/14	WG	pH	8.34	SU	CASA-14-84037
R-12 S1	459	07/25/13	WG	pH	8.4	SU	CASA-13-37010
R-12 S1	459	08/20/12	WG	pH	8.33	SU	CASA-12-21769
R-12 S1	459	06/03/11	WG	pH	8.33	SU	CASA-11-11638
R-12 S1	459	06/03/11	WG	pH	8.32	SU	CASA-11-10823
R-12 S1	459	06/03/11	WG	pH	8.35	SU	CASA-11-11633
R-12 S1	459	06/03/11	WG	pH	8.36	SU	CASA-11-11635
R-12 S1	459	11/17/10	WG	pH	8.14	SU	CASA-11-1356
R-12 S1	459	07/16/14	WG	Specific Conductance	235	µS/cm	CASA-14-84037
R-12 S1	459	07/25/13	WG	Specific Conductance	201	µS/cm	CASA-13-37010
R-12 S1	459	08/20/12	WG	Specific Conductance	272	µS/cm	CASA-12-21769
R-12 S1	459	06/03/11	WG	Specific Conductance	191	µS/cm	CASA-11-11638
R-12 S1	459	06/03/11	WG	Specific Conductance	229	µS/cm	CASA-11-10823
R-12 S1	459	06/03/11	WG	Specific Conductance	157	µS/cm	CASA-11-11633
R-12 S1	459	06/03/11	WG	Specific Conductance	168	µS/cm	CASA-11-11635
R-12 S1	459	11/17/10	WG	Specific Conductance	237	µS/cm	CASA-11-1356
R-12 S1	459	07/16/14	WG	Temperature	18.15	deg C	CASA-14-84037
R-12 S1	459	07/25/13	WG	Temperature	18.76	deg C	CASA-13-37010
R-12 S1	459	08/20/12	WG	Temperature	17.67	deg C	CASA-12-21769
R-12 S1	459	06/03/11	WG	Temperature	18.12	deg C	CASA-11-11638
R-12 S1	459	06/03/11	WG	Temperature	18.18	deg C	CASA-11-10823
R-12 S1	459	06/03/11	WG	Temperature	18.01	deg C	CASA-11-11633
R-12 S1	459	06/03/11	WG	Temperature	18.07	deg C	CASA-11-11635
R-12 S1	459	11/17/10	WG	Temperature	17.7	deg C	CASA-11-1356
R-12 S1	459	07/16/14	WG	Turbidity	0.38	NTU	CASA-14-84037
R-12 S1	459	07/25/13	WG	Turbidity	1.2	NTU	CASA-13-37010
R-12 S1	459	08/20/12	WG	Turbidity	0.31	NTU	CASA-12-21769
R-12 S1	459	06/03/11	WG	Turbidity	0.33	NTU	CASA-11-11638

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-12 S1	459	06/03/11	WG	Turbidity	0.34	NTU	CASA-11-10823
R-12 S1	459	06/03/11	WG	Turbidity	0.37	NTU	CASA-11-11633
R-12 S1	459	06/03/11	WG	Turbidity	0.24	NTU	CASA-11-11635
R-12 S1	459	11/17/10	WG	Turbidity	0.58	NTU	CASA-11-1356
R-12 S2	504.5	07/21/14	WG	Dissolved Oxygen	4.54	mg/L	CASA-14-84038
R-12 S2	504.5	07/22/13	WG	Dissolved Oxygen	4.92	mg/L	CASA-13-37011
R-12 S2	504.5	08/20/12	WG	Dissolved Oxygen	4.55	mg/L	CASA-12-21770
R-12 S2	504.5	05/26/11	WG	Dissolved Oxygen	3.95	mg/L	CASA-11-11642
R-12 S2	504.5	05/26/11	WG	Dissolved Oxygen	3.94	mg/L	CASA-11-11643
R-12 S2	504.5	05/26/11	WG	Dissolved Oxygen	4.42	mg/L	CASA-11-11665
R-12 S2	504.5	05/26/11	WG	Dissolved Oxygen	4.41	mg/L	CASA-11-10824
R-12 S2	504.5	05/26/11	WG	Dissolved Oxygen	2.39	mg/L	CASA-11-11639
R-12 S2	504.5	05/26/11	WG	Dissolved Oxygen	4.43	mg/L	CASA-11-11664
R-12 S2	504.5	11/17/10	WG	Dissolved Oxygen	3.27	mg/L	CASA-11-1359
R-12 S2	504.5	07/21/14	WG	Flow (in gpm)	12	gpm	CASA-14-84038
R-12 S2	504.5	05/26/11	WG	Flow (in gpm)	10.4	gpm	CASA-11-11642
R-12 S2	504.5	05/26/11	WG	Flow (in gpm)	10.4	gpm	CASA-11-11643
R-12 S2	504.5	05/26/11	WG	Flow (in gpm)	10.4	gpm	CASA-11-11665
R-12 S2	504.5	05/26/11	WG	Flow (in gpm)	10.4	gpm	CASA-11-10824
R-12 S2	504.5	05/26/11	WG	Flow (in gpm)	10.4	gpm	CASA-11-11639
R-12 S2	504.5	05/26/11	WG	Flow (in gpm)	10.4	gpm	CASA-11-11664
R-12 S2	504.5	11/17/10	WG	Flow (in gpm)	12.4	gpm	CASA-11-1359
R-12 S2	504.5	05/17/10	WG	Flow (in gpm)	11.5	gpm	CASA-10-16749
R-12 S2	504.5	02/09/10	WG	Flow (in gpm)	10	gpm	CASA-10-9447
R-12 S2	504.5	07/21/14	WG	Oxidation-Reduction Potential	20.7	mV	CASA-14-84038
R-12 S2	504.5	07/22/13	WG	Oxidation-Reduction Potential	66.9	mV	CASA-13-37011
R-12 S2	504.5	08/20/12	WG	Oxidation-Reduction Potential	-9.3	mV	CASA-12-21770
R-12 S2	504.5	05/26/11	WG	Oxidation-Reduction Potential	-23.9	mV	CASA-11-11642
R-12 S2	504.5	05/26/11	WG	Oxidation-Reduction Potential	-4.7	mV	CASA-11-11643

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-12 S2	504.5	05/26/11	WG	Oxidation-Reduction Potential	-1.5	mV	CASA-11-11665
R-12 S2	504.5	05/26/11	WG	Oxidation-Reduction Potential	2.5	mV	CASA-11-10824
R-12 S2	504.5	05/26/11	WG	Oxidation-Reduction Potential	9.8	mV	CASA-11-11639
R-12 S2	504.5	05/26/11	WG	Oxidation-Reduction Potential	-1.7	mV	CASA-11-11664
R-12 S2	504.5	11/17/10	WG	Oxidation-Reduction Potential	5.1	mV	CASA-11-1359
R-12 S2	504.5	07/21/14	WG	pH	8.1	SU	CASA-14-84038
R-12 S2	504.5	07/22/13	WG	pH	8.33	SU	CASA-13-37011
R-12 S2	504.5	08/20/12	WG	pH	8.31	SU	CASA-12-21770
R-12 S2	504.5	05/26/11	WG	pH	8.26	SU	CASA-11-11642
R-12 S2	504.5	05/26/11	WG	pH	8.29	SU	CASA-11-11643
R-12 S2	504.5	05/26/11	WG	pH	8.3	SU	CASA-11-11665
R-12 S2	504.5	05/26/11	WG	pH	8.31	SU	CASA-11-10824
R-12 S2	504.5	05/26/11	WG	pH	8	SU	CASA-11-11639
R-12 S2	504.5	05/26/11	WG	pH	8.3	SU	CASA-11-11664
R-12 S2	504.5	11/17/10	WG	pH	8.25	SU	CASA-11-1359
R-12 S2	504.5	07/21/14	WG	Specific Conductance	174	µS/cm	CASA-14-84038
R-12 S2	504.5	07/22/13	WG	Specific Conductance	172	µS/cm	CASA-13-37011
R-12 S2	504.5	08/20/12	WG	Specific Conductance	171	µS/cm	CASA-12-21770
R-12 S2	504.5	05/26/11	WG	Specific Conductance	164	µS/cm	CASA-11-11642
R-12 S2	504.5	05/26/11	WG	Specific Conductance	164	µS/cm	CASA-11-11643
R-12 S2	504.5	05/26/11	WG	Specific Conductance	174	µS/cm	CASA-11-11665
R-12 S2	504.5	05/26/11	WG	Specific Conductance	173	µS/cm	CASA-11-10824
R-12 S2	504.5	05/26/11	WG	Specific Conductance	164	µS/cm	CASA-11-11639
R-12 S2	504.5	05/26/11	WG	Specific Conductance	174	µS/cm	CASA-11-11664
R-12 S2	504.5	11/17/10	WG	Specific Conductance	170	µS/cm	CASA-11-1359
R-12 S2	504.5	07/21/14	WG	Temperature	20.4	deg C	CASA-14-84038
R-12 S2	504.5	07/22/13	WG	Temperature	20.48	deg C	CASA-13-37011
R-12 S2	504.5	08/20/12	WG	Temperature	19.86	deg C	CASA-12-21770
R-12 S2	504.5	05/26/11	WG	Temperature	20.14	deg C	CASA-11-11642

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-12 S2	504.5	05/26/11	WG	Temperature	20.42	deg C	CASA-11-11643
R-12 S2	504.5	05/26/11	WG	Temperature	20.39	deg C	CASA-11-11665
R-12 S2	504.5	05/26/11	WG	Temperature	20.48	deg C	CASA-11-10824
R-12 S2	504.5	05/26/11	WG	Temperature	18.58	deg C	CASA-11-11639
R-12 S2	504.5	05/26/11	WG	Temperature	20.44	deg C	CASA-11-11664
R-12 S2	504.5	11/17/10	WG	Temperature	19.2	deg C	CASA-11-1359
R-12 S2	504.5	07/21/14	WG	Turbidity	0.75	NTU	CASA-14-84038
R-12 S2	504.5	07/22/13	WG	Turbidity	0.4	NTU	CASA-13-37011
R-12 S2	504.5	08/20/12	WG	Turbidity	0.82	NTU	CASA-12-21770
R-12 S2	504.5	05/26/11	WG	Turbidity	0.59	NTU	CASA-11-11642
R-12 S2	504.5	05/26/11	WG	Turbidity	0.66	NTU	CASA-11-11643
R-12 S2	504.5	05/26/11	WG	Turbidity	0.06	NTU	CASA-11-11665
R-12 S2	504.5	05/26/11	WG	Turbidity	0.03	NTU	CASA-11-10824
R-12 S2	504.5	05/26/11	WG	Turbidity	1.41	NTU	CASA-11-11639
R-12 S2	504.5	05/26/11	WG	Turbidity	0.27	NTU	CASA-11-11664
R-12 S2	504.5	11/17/10	WG	Turbidity	0.38	NTU	CASA-11-1359
R-16 S2	863.4	07/23/14	WG	Dissolved Oxygen	5.76	mg/L	CAMO-14-81572
R-16 S2	863.4	07/24/13	WG	Dissolved Oxygen	5.83	mg/L	CAMO-13-37034
R-16 S2	863.4	08/09/12	WG	Dissolved Oxygen	5.85	mg/L	CAMO-12-21785
R-16 S2	863.4	08/18/11	WG	Dissolved Oxygen	5.07	mg/L	CAMO-11-24502
R-16 S2	863.4	08/18/11	WG	Dissolved Oxygen	5.64	mg/L	CAMO-11-24504
R-16 S2	863.4	08/18/11	WG	Dissolved Oxygen	5.83	mg/L	CAMO-11-24691
R-16 S2	863.4	08/18/11	WG	Dissolved Oxygen	5.82	mg/L	CAMO-11-24506
R-16 S2	863.4	05/27/11	WG	Dissolved Oxygen	5.53	mg/L	CAMO-11-11326
R-16 S2	863.4	05/27/11	WG	Dissolved Oxygen	4.96	mg/L	CAMO-11-11323
R-16 S2	863.4	05/27/11	WG	Dissolved Oxygen	5.53	mg/L	CAMO-11-11325
R-16 S2	863.4	05/27/11	WG	Dissolved Oxygen	5.78	mg/L	CAMO-11-11327
R-16 S2	863.4	07/23/14	WG	Flow (in gpm)	4.91	gpm	CAMO-14-81572
R-16 S2	863.4	08/18/11	WG	Flow (in gpm)	4.7	gpm	CAMO-11-24502

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16 S2	863.4	08/18/11	WG	Flow (in gpm)	4.7	gpm	CAMO-11-24504
R-16 S2	863.4	08/18/11	WG	Flow (in gpm)	4.7	gpm	CAMO-11-24691
R-16 S2	863.4	08/18/11	WG	Flow (in gpm)	4.7	gpm	CAMO-11-24506
R-16 S2	863.4	05/27/11	WG	Flow (in gpm)	4.75	gpm	CAMO-11-11326
R-16 S2	863.4	05/27/11	WG	Flow (in gpm)	4.75	gpm	CAMO-11-11323
R-16 S2	863.4	05/27/11	WG	Flow (in gpm)	21.75	gpm	CAMO-11-11325
R-16 S2	863.4	05/27/11	WG	Flow (in gpm)	4.75	gpm	CAMO-11-11327
R-16 S2	863.4	02/16/11	WG	Flow (in gpm)	4.5	gpm	CAMO-11-4641
R-16 S2	863.4	11/17/10	WG	Flow (in gpm)	4.6	gpm	CAMO-11-1288
R-16 S2	863.4	07/23/14	WG	Oxidation-Reduction Potential	123.3	mV	CAMO-14-81572
R-16 S2	863.4	07/24/13	WG	Oxidation-Reduction Potential	73.5	mV	CAMO-13-37034
R-16 S2	863.4	08/09/12	WG	Oxidation-Reduction Potential	106.8	mV	CAMO-12-21785
R-16 S2	863.4	08/18/11	WG	Oxidation-Reduction Potential	60.2	mV	CAMO-11-24502
R-16 S2	863.4	08/18/11	WG	Oxidation-Reduction Potential	128	mV	CAMO-11-24504
R-16 S2	863.4	08/18/11	WG	Oxidation-Reduction Potential	145.6	mV	CAMO-11-24691
R-16 S2	863.4	08/18/11	WG	Oxidation-Reduction Potential	145.6	mV	CAMO-11-24506
R-16 S2	863.4	05/27/11	WG	Oxidation-Reduction Potential	94.8	mV	CAMO-11-11326
R-16 S2	863.4	05/27/11	WG	Oxidation-Reduction Potential	42.6	mV	CAMO-11-11323
R-16 S2	863.4	05/27/11	WG	Oxidation-Reduction Potential	94.8	mV	CAMO-11-11325
R-16 S2	863.4	05/27/11	WG	Oxidation-Reduction Potential	115.2	mV	CAMO-11-11327
R-16 S2	863.4	07/23/14	WG	pH	8.07	SU	CAMO-14-81572
R-16 S2	863.4	07/24/13	WG	pH	8.24	SU	CAMO-13-37034
R-16 S2	863.4	08/09/12	WG	pH	8.27	SU	CAMO-12-21785
R-16 S2	863.4	08/18/11	WG	pH	8.24	SU	CAMO-11-24502
R-16 S2	863.4	08/18/11	WG	pH	8.22	SU	CAMO-11-24504
R-16 S2	863.4	08/18/11	WG	pH	8.21	SU	CAMO-11-24691
R-16 S2	863.4	08/18/11	WG	pH	8.21	SU	CAMO-11-24506
R-16 S2	863.4	05/27/11	WG	pH	8.17	SU	CAMO-11-11326
R-16 S2	863.4	05/27/11	WG	pH	8.19	SU	CAMO-11-11323

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16 S2	863.4	05/27/11	WG	pH	8.17	SU	CAMO-11-11325
R-16 S2	863.4	05/27/11	WG	pH	8.16	SU	CAMO-11-11327
R-16 S2	863.4	07/23/14	WG	Specific Conductance	175	µS/cm	CAMO-14-81572
R-16 S2	863.4	07/24/13	WG	Specific Conductance	172	µS/cm	CAMO-13-37034
R-16 S2	863.4	08/09/12	WG	Specific Conductance	174	µS/cm	CAMO-12-21785
R-16 S2	863.4	08/18/11	WG	Specific Conductance	176	µS/cm	CAMO-11-24502
R-16 S2	863.4	08/18/11	WG	Specific Conductance	175	µS/cm	CAMO-11-24504
R-16 S2	863.4	08/18/11	WG	Specific Conductance	174	µS/cm	CAMO-11-24691
R-16 S2	863.4	08/18/11	WG	Specific Conductance	174	µS/cm	CAMO-11-24506
R-16 S2	863.4	05/27/11	WG	Specific Conductance	181	µS/cm	CAMO-11-11326
R-16 S2	863.4	05/27/11	WG	Specific Conductance	184	µS/cm	CAMO-11-11323
R-16 S2	863.4	05/27/11	WG	Specific Conductance	181	µS/cm	CAMO-11-11325
R-16 S2	863.4	05/27/11	WG	Specific Conductance	180	µS/cm	CAMO-11-11327
R-16 S2	863.4	07/23/14	WG	Temperature	22.93	deg C	CAMO-14-81572
R-16 S2	863.4	07/24/13	WG	Temperature	23.75	deg C	CAMO-13-37034
R-16 S2	863.4	08/09/12	WG	Temperature	23.63	deg C	CAMO-12-21785
R-16 S2	863.4	08/18/11	WG	Temperature	22.12	deg C	CAMO-11-24502
R-16 S2	863.4	08/18/11	WG	Temperature	22.41	deg C	CAMO-11-24504
R-16 S2	863.4	08/18/11	WG	Temperature	22.59	deg C	CAMO-11-24691
R-16 S2	863.4	08/18/11	WG	Temperature	22.59	deg C	CAMO-11-24506
R-16 S2	863.4	05/27/11	WG	Temperature	22.92	deg C	CAMO-11-11326
R-16 S2	863.4	05/27/11	WG	Temperature	22.89	deg C	CAMO-11-11323
R-16 S2	863.4	05/27/11	WG	Temperature	22.92	deg C	CAMO-11-11325
R-16 S2	863.4	05/27/11	WG	Temperature	23.06	deg C	CAMO-11-11327
R-16 S2	863.4	07/23/14	WG	Turbidity	0.45	NTU	CAMO-14-81572
R-16 S2	863.4	07/24/13	WG	Turbidity	0.9	NTU	CAMO-13-37034
R-16 S2	863.4	08/09/12	WG	Turbidity	0.48	NTU	CAMO-12-21785
R-16 S2	863.4	08/18/11	WG	Turbidity	0.1	NTU	CAMO-11-24502
R-16 S2	863.4	08/18/11	WG	Turbidity	0.24	NTU	CAMO-11-24504

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16 S2	863.4	08/18/11	WG	Turbidity	0.25	NTU	CAMO-11-24691
R-16 S2	863.4	08/18/11	WG	Turbidity	0.25	NTU	CAMO-11-24506
R-16 S2	863.4	05/27/11	WG	Turbidity	0.38	NTU	CAMO-11-11326
R-16 S2	863.4	05/27/11	WG	Turbidity	0.52	NTU	CAMO-11-11323
R-16 S2	863.4	05/27/11	WG	Turbidity	0.38	NTU	CAMO-11-11325
R-16 S2	863.4	05/27/11	WG	Turbidity	0.44	NTU	CAMO-11-11327
R-16 S4	1237	07/22/14	WG	Dissolved Oxygen	3.64	mg/L	CAMO-14-81573
R-16 S4	1237	07/25/13	WG	Dissolved Oxygen	3.47	mg/L	CAMO-13-37035
R-16 S4	1237	08/09/12	WG	Dissolved Oxygen	2.85	mg/L	CAMO-12-21786
R-16 S4	1237	08/18/11	WG	Dissolved Oxygen	2.25	mg/L	CAMO-11-24689
R-16 S4	1237	08/18/11	WG	Dissolved Oxygen	0.94	mg/L	CAMO-11-24510
R-16 S4	1237	08/18/11	WG	Dissolved Oxygen	2.03	mg/L	CAMO-11-24512
R-16 S4	1237	08/18/11	WG	Dissolved Oxygen	0.33	mg/L	CAMO-11-24508
R-16 S4	1237	05/27/11	WG	Dissolved Oxygen	1.32	mg/L	CAMO-11-11331
R-16 S4	1237	05/27/11	WG	Dissolved Oxygen	2.24	mg/L	CAMO-11-10760
R-16 S4	1237	05/27/11	WG	Dissolved Oxygen	2.39	mg/L	CAMO-11-11334
R-16 S4	1237	07/22/14	WG	Flow (in gpm)	3.23	gpm	CAMO-14-81573
R-16 S4	1237	08/18/11	WG	Flow (in gpm)	2.8	gpm	CAMO-11-24689
R-16 S4	1237	08/18/11	WG	Flow (in gpm)	2.8	gpm	CAMO-11-24510
R-16 S4	1237	08/18/11	WG	Flow (in gpm)	2.8	gpm	CAMO-11-24512
R-16 S4	1237	08/18/11	WG	Flow (in gpm)	2.8	gpm	CAMO-11-24508
R-16 S4	1237	05/27/11	WG	Flow (in gpm)	2.75	gpm	CAMO-11-11331
R-16 S4	1237	05/27/11	WG	Flow (in gpm)	2.75	gpm	CAMO-11-10760
R-16 S4	1237	05/27/11	WG	Flow (in gpm)	2.75	gpm	CAMO-11-11334
R-16 S4	1237	02/16/11	WG	Flow (in gpm)	2.75	gpm	CAMO-11-4644
R-16 S4	1237	11/17/10	WG	Flow (in gpm)	2.8	gpm	CAMO-11-1305
R-16 S4	1237	07/22/14	WG	Oxidation-Reduction Potential	48.4	mV	CAMO-14-81573
R-16 S4	1237	07/25/13	WG	Oxidation-Reduction Potential	67.8	mV	CAMO-13-37035
R-16 S4	1237	08/09/12	WG	Oxidation-Reduction Potential	54.2	mV	CAMO-12-21786

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16 S4	1237	08/18/11	WG	Oxidation-Reduction Potential	148.8	mV	CAMO-11-24689
R-16 S4	1237	08/18/11	WG	Oxidation-Reduction Potential	136.4	mV	CAMO-11-24510
R-16 S4	1237	08/18/11	WG	Oxidation-Reduction Potential	146.4	mV	CAMO-11-24512
R-16 S4	1237	08/18/11	WG	Oxidation-Reduction Potential	120.5	mV	CAMO-11-24508
R-16 S4	1237	05/27/11	WG	Oxidation-Reduction Potential	10.4	mV	CAMO-11-11331
R-16 S4	1237	05/27/11	WG	Oxidation-Reduction Potential	58.8	mV	CAMO-11-10760
R-16 S4	1237	05/27/11	WG	Oxidation-Reduction Potential	65.3	mV	CAMO-11-11334
R-16 S4	1237	07/22/14	WG	pH	8.06	SU	CAMO-14-81573
R-16 S4	1237	07/25/13	WG	pH	8.09	SU	CAMO-13-37035
R-16 S4	1237	08/09/12	WG	pH	8.18	SU	CAMO-12-21786
R-16 S4	1237	08/18/11	WG	pH	8.17	SU	CAMO-11-24689
R-16 S4	1237	08/18/11	WG	pH	8.14	SU	CAMO-11-24510
R-16 S4	1237	08/18/11	WG	pH	8.17	SU	CAMO-11-24512
R-16 S4	1237	08/18/11	WG	pH	8.37	SU	CAMO-11-24508
R-16 S4	1237	05/27/11	WG	pH	8.15	SU	CAMO-11-11331
R-16 S4	1237	05/27/11	WG	pH	8.16	SU	CAMO-11-10760
R-16 S4	1237	05/27/11	WG	pH	8.15	SU	CAMO-11-11334
R-16 S4	1237	07/22/14	WG	Specific Conductance	187	µS/cm	CAMO-14-81573
R-16 S4	1237	07/25/13	WG	Specific Conductance	182	µS/cm	CAMO-13-37035
R-16 S4	1237	08/09/12	WG	Specific Conductance	184	µS/cm	CAMO-12-21786
R-16 S4	1237	08/18/11	WG	Specific Conductance	186	µS/cm	CAMO-11-24689
R-16 S4	1237	08/18/11	WG	Specific Conductance	190	µS/cm	CAMO-11-24510
R-16 S4	1237	08/18/11	WG	Specific Conductance	187	µS/cm	CAMO-11-24512
R-16 S4	1237	08/18/11	WG	Specific Conductance	200	µS/cm	CAMO-11-24508
R-16 S4	1237	05/27/11	WG	Specific Conductance	197	µS/cm	CAMO-11-11331
R-16 S4	1237	05/27/11	WG	Specific Conductance	193	µS/cm	CAMO-11-10760
R-16 S4	1237	05/27/11	WG	Specific Conductance	193	µS/cm	CAMO-11-11334
R-16 S4	1237	07/22/14	WG	Temperature	23.34	deg C	CAMO-14-81573
R-16 S4	1237	07/25/13	WG	Temperature	22.71	deg C	CAMO-13-37035

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16 S4	1237	08/09/12	WG	Temperature	22.57	deg C	CAMO-12-21786
R-16 S4	1237	08/18/11	WG	Temperature	22.59	deg C	CAMO-11-24689
R-16 S4	1237	08/18/11	WG	Temperature	22.44	deg C	CAMO-11-24510
R-16 S4	1237	08/18/11	WG	Temperature	22.62	deg C	CAMO-11-24512
R-16 S4	1237	08/18/11	WG	Temperature	22.26	deg C	CAMO-11-24508
R-16 S4	1237	05/27/11	WG	Temperature	21.95	deg C	CAMO-11-11331
R-16 S4	1237	05/27/11	WG	Temperature	22.24	deg C	CAMO-11-10760
R-16 S4	1237	05/27/11	WG	Temperature	22.17	deg C	CAMO-11-11334
R-16 S4	1237	07/22/14	WG	Turbidity	0.2	NTU	CAMO-14-81573
R-16 S4	1237	07/25/13	WG	Turbidity	0.16	NTU	CAMO-13-37035
R-16 S4	1237	08/09/12	WG	Turbidity	0.21	NTU	CAMO-12-21786
R-16 S4	1237	08/18/11	WG	Turbidity	0.37	NTU	CAMO-11-24689
R-16 S4	1237	08/18/11	WG	Turbidity	0.6	NTU	CAMO-11-24510
R-16 S4	1237	08/18/11	WG	Turbidity	0.37	NTU	CAMO-11-24512
R-16 S4	1237	08/18/11	WG	Turbidity	0.41	NTU	CAMO-11-24508
R-16 S4	1237	05/27/11	WG	Turbidity	0.36	NTU	CAMO-11-11331
R-16 S4	1237	05/27/11	WG	Turbidity	0.11	NTU	CAMO-11-10760
R-16 S4	1237	05/27/11	WG	Turbidity	0.23	NTU	CAMO-11-11334
R-16r	600	07/16/14	WG	Dissolved Oxygen	6.46	mg/L	CAMO-14-81574
R-16r	600	07/24/13	WG	Dissolved Oxygen	6.46	mg/L	CAMO-13-37036
R-16r	600	08/09/12	WG	Dissolved Oxygen	6.35	mg/L	CAMO-12-21787
R-16r	600	08/10/11	WG	Dissolved Oxygen	6.53	mg/L	CAMO-11-24514
R-16r	600	08/10/11	WG	Dissolved Oxygen	6.56	mg/L	CAMO-11-24516
R-16r	600	08/10/11	WG	Dissolved Oxygen	6.53	mg/L	CAMO-11-24518
R-16r	600	08/10/11	WG	Dissolved Oxygen	6.53	mg/L	CAMO-11-24681
R-16r	600	05/20/11	WG	Dissolved Oxygen	6.57	mg/L	CAMO-11-10750
R-16r	600	05/20/11	WG	Dissolved Oxygen	6.58	mg/L	CAMO-11-11335
R-16r	600	05/20/11	WG	Dissolved Oxygen	6.65	mg/L	CAMO-11-11458
R-16r	600	05/20/11	WG	Dissolved Oxygen	6.5	mg/L	CAMO-11-11460

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16r	600	05/20/11	WG	Dissolved Oxygen	6.57	mg/L	CAMO-11-10752
R-16r	600	07/16/14	WG	Flow (in gpm)	5.35	gpm	CAMO-14-81574
R-16r	600	08/10/11	WG	Flow (in gpm)	5.1	gpm	CAMO-11-24514
R-16r	600	08/10/11	WG	Flow (in gpm)	5.1	gpm	CAMO-11-24516
R-16r	600	08/10/11	WG	Flow (in gpm)	5.1	gpm	CAMO-11-24518
R-16r	600	08/10/11	WG	Flow (in gpm)	5.1	gpm	CAMO-11-24681
R-16r	600	05/20/11	WG	Flow (in gpm)	5.5	gpm	CAMO-11-10750
R-16r	600	05/20/11	WG	Flow (in gpm)	5.5	gpm	CAMO-11-11335
R-16r	600	05/20/11	WG	Flow (in gpm)	5.5	gpm	CAMO-11-11458
R-16r	600	05/20/11	WG	Flow (in gpm)	5.5	gpm	CAMO-11-11460
R-16r	600	05/20/11	WG	Flow (in gpm)	5.5	gpm	CAMO-11-10752
R-16r	600	02/16/11	WG	Flow (in gpm)	5.3	gpm	CAMO-11-4647
R-16r	600	11/11/10	WG	Flow (in gpm)	5.2	gpm	CAMO-11-1289
R-16r	600	07/16/14	WG	Oxidation-Reduction Potential	74.9	mV	CAMO-14-81574
R-16r	600	07/24/13	WG	Oxidation-Reduction Potential	72.1	mV	CAMO-13-37036
R-16r	600	08/09/12	WG	Oxidation-Reduction Potential	92.3	mV	CAMO-12-21787
R-16r	600	08/10/11	WG	Oxidation-Reduction Potential	202.3	mV	CAMO-11-24514
R-16r	600	08/10/11	WG	Oxidation-Reduction Potential	198.2	mV	CAMO-11-24516
R-16r	600	08/10/11	WG	Oxidation-Reduction Potential	196.4	mV	CAMO-11-24518
R-16r	600	08/10/11	WG	Oxidation-Reduction Potential	196.4	mV	CAMO-11-24681
R-16r	600	05/20/11	WG	Oxidation-Reduction Potential	238.6	mV	CAMO-11-10750
R-16r	600	05/20/11	WG	Oxidation-Reduction Potential	244.7	mV	CAMO-11-11335
R-16r	600	05/20/11	WG	Oxidation-Reduction Potential	238.9	mV	CAMO-11-11460
R-16r	600	05/20/11	WG	Oxidation-Reduction Potential	238.6	mV	CAMO-11-10752
R-16r	600	07/16/14	WG	pH	8.17	SU	CAMO-14-81574
R-16r	600	07/24/13	WG	pH	8.09	SU	CAMO-13-37036
R-16r	600	08/09/12	WG	pH	8.08	SU	CAMO-12-21787
R-16r	600	08/10/11	WG	pH	8.21	SU	CAMO-11-24514
R-16r	600	08/10/11	WG	pH	8.22	SU	CAMO-11-24516

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16r	600	08/10/11	WG	pH	8.22	SU	CAMO-11-24518
R-16r	600	08/10/11	WG	pH	8.22	SU	CAMO-11-24681
R-16r	600	05/20/11	WG	pH	8.23	SU	CAMO-11-10750
R-16r	600	05/20/11	WG	pH	8.24	SU	CAMO-11-11335
R-16r	600	05/20/11	WG	pH	8.23	SU	CAMO-11-11458
R-16r	600	05/20/11	WG	pH	8.22	SU	CAMO-11-11460
R-16r	600	05/20/11	WG	pH	8.23	SU	CAMO-11-10752
R-16r	600	07/16/14	WG	Specific Conductance	181	µS/cm	CAMO-14-81574
R-16r	600	07/24/13	WG	Specific Conductance	182	µS/cm	CAMO-13-37036
R-16r	600	08/09/12	WG	Specific Conductance	180	µS/cm	CAMO-12-21787
R-16r	600	08/10/11	WG	Specific Conductance	181	µS/cm	CAMO-11-24514
R-16r	600	08/10/11	WG	Specific Conductance	181	µS/cm	CAMO-11-24516
R-16r	600	08/10/11	WG	Specific Conductance	181	µS/cm	CAMO-11-24518
R-16r	600	08/10/11	WG	Specific Conductance	181	µS/cm	CAMO-11-24681
R-16r	600	05/20/11	WG	Specific Conductance	181	µS/cm	CAMO-11-10750
R-16r	600	05/20/11	WG	Specific Conductance	182	µS/cm	CAMO-11-11335
R-16r	600	05/20/11	WG	Specific Conductance	182	µS/cm	CAMO-11-11458
R-16r	600	05/20/11	WG	Specific Conductance	182	µS/cm	CAMO-11-11460
R-16r	600	05/20/11	WG	Specific Conductance	181	µS/cm	CAMO-11-10752
R-16r	600	07/16/14	WG	Temperature	20.86	deg C	CAMO-14-81574
R-16r	600	07/24/13	WG	Temperature	21.37	deg C	CAMO-13-37036
R-16r	600	08/09/12	WG	Temperature	21.46	deg C	CAMO-12-21787
R-16r	600	08/10/11	WG	Temperature	20.47	deg C	CAMO-11-24514
R-16r	600	08/10/11	WG	Temperature	20.75	deg C	CAMO-11-24516
R-16r	600	08/10/11	WG	Temperature	20.88	deg C	CAMO-11-24518
R-16r	600	08/10/11	WG	Temperature	20.88	deg C	CAMO-11-24681
R-16r	600	05/20/11	WG	Temperature	19.98	deg C	CAMO-11-10750
R-16r	600	05/20/11	WG	Temperature	19.99	deg C	CAMO-11-11335
R-16r	600	05/20/11	WG	Temperature	20.06	deg C	CAMO-11-11458

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-16r	600	05/20/11	WG	Temperature	19.96	deg C	CAMO-11-11460
R-16r	600	05/20/11	WG	Temperature	19.98	deg C	CAMO-11-10752
R-16r	600	07/16/14	WG	Turbidity	0.42	NTU	CAMO-14-81574
R-16r	600	07/24/13	WG	Turbidity	0.2	NTU	CAMO-13-37036
R-16r	600	08/09/12	WG	Turbidity	0.6	NTU	CAMO-12-21787
R-16r	600	08/10/11	WG	Turbidity	0.52	NTU	CAMO-11-24514
R-16r	600	08/10/11	WG	Turbidity	0.43	NTU	CAMO-11-24516
R-16r	600	08/10/11	WG	Turbidity	0.29	NTU	CAMO-11-24518
R-16r	600	08/10/11	WG	Turbidity	0.29	NTU	CAMO-11-24681
R-16r	600	05/20/11	WG	Turbidity	0.24	NTU	CAMO-11-10750
R-16r	600	05/20/11	WG	Turbidity	0.87	NTU	CAMO-11-11335
R-16r	600	05/20/11	WG	Turbidity	0.41	NTU	CAMO-11-11458
R-16r	600	05/20/11	WG	Turbidity	0.16	NTU	CAMO-11-11460
R-16r	600	05/20/11	WG	Turbidity	0.24	NTU	CAMO-11-10752
R-33 S1	995.5	07/09/14	WG	Dissolved Oxygen	5.16	mg/L	CAMO-14-81575
R-33 S1	995.5	07/10/13	WG	Dissolved Oxygen	5.02	mg/L	CAMO-13-37037
R-33 S1	995.5	08/21/12	WG	Dissolved Oxygen	5.12	mg/L	CAMO-12-21788
R-33 S1	995.5	08/04/11	WG	Dissolved Oxygen	5.19	mg/L	CAMO-11-24664
R-33 S1	995.5	05/16/11	WG	Dissolved Oxygen	5.04	mg/L	CAMO-11-10762
R-33 S1	995.5	07/09/14	WG	Flow (in gpm)	3.3	gpm	CAMO-14-81575
R-33 S1	995.5	08/04/11	WG	Flow (in gpm)	3	gpm	CAMO-11-24664
R-33 S1	995.5	05/16/11	WG	Flow (in gpm)	3	gpm	CAMO-11-10762
R-33 S1	995.5	02/10/11	WG	Flow (in gpm)	3.1	gpm	CAMO-11-4661
R-33 S1	995.5	11/18/10	WG	Flow (in gpm)	3	gpm	CAMO-11-1297
R-33 S1	995.5	07/09/14	WG	Oxidation-Reduction Potential	41.9	mV	CAMO-14-81575
R-33 S1	995.5	07/10/13	WG	Oxidation-Reduction Potential	61.3	mV	CAMO-13-37037
R-33 S1	995.5	08/21/12	WG	Oxidation-Reduction Potential	122.3	mV	CAMO-12-21788
R-33 S1	995.5	08/04/11	WG	Oxidation-Reduction Potential	232.1	mV	CAMO-11-24664
R-33 S1	995.5	05/16/11	WG	Oxidation-Reduction Potential	136.2	mV	CAMO-11-10762

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-33 S1	995.5	07/09/14	WG	pH	7.52	SU	CAMO-14-81575
R-33 S1	995.5	07/10/13	WG	pH	7.54	SU	CAMO-13-37037
R-33 S1	995.5	08/21/12	WG	pH	7.43	SU	CAMO-12-21788
R-33 S1	995.5	08/04/11	WG	pH	7.48	SU	CAMO-11-24664
R-33 S1	995.5	05/16/11	WG	pH	7.52	SU	CAMO-11-10762
R-33 S1	995.5	07/09/14	WG	Specific Conductance	145	µS/cm	CAMO-14-81575
R-33 S1	995.5	07/10/13	WG	Specific Conductance	145	µS/cm	CAMO-13-37037
R-33 S1	995.5	08/21/12	WG	Specific Conductance	145	µS/cm	CAMO-12-21788
R-33 S1	995.5	08/04/11	WG	Specific Conductance	144	µS/cm	CAMO-11-24664
R-33 S1	995.5	05/16/11	WG	Specific Conductance	146	µS/cm	CAMO-11-10762
R-33 S1	995.5	07/09/14	WG	Temperature	22.27	deg C	CAMO-14-81575
R-33 S1	995.5	07/10/13	WG	Temperature	22.19	deg C	CAMO-13-37037
R-33 S1	995.5	08/21/12	WG	Temperature	21.62	deg C	CAMO-12-21788
R-33 S1	995.5	08/04/11	WG	Temperature	21.83	deg C	CAMO-11-24664
R-33 S1	995.5	05/16/11	WG	Temperature	21.87	deg C	CAMO-11-10762
R-33 S1	995.5	07/09/14	WG	Turbidity	0.4	NTU	CAMO-14-81575
R-33 S1	995.5	07/10/13	WG	Turbidity	0.7	NTU	CAMO-13-37037
R-33 S1	995.5	08/21/12	WG	Turbidity	0.38	NTU	CAMO-12-21788
R-33 S1	995.5	08/04/11	WG	Turbidity	0.39	NTU	CAMO-11-24664
R-33 S1	995.5	05/16/11	WG	Turbidity	0.49	NTU	CAMO-11-10762
R-33 S2	1112.4	07/09/14	WG	Dissolved Oxygen	6.48	mg/L	CAMO-14-81576
R-33 S2	1112.4	07/11/13	WG	Dissolved Oxygen	6.62	mg/L	CAMO-13-37038
R-33 S2	1112.4	08/21/12	WG	Dissolved Oxygen	6.54	mg/L	CAMO-12-21789
R-33 S2	1112.4	08/04/11	WG	Dissolved Oxygen	6.57	mg/L	CAMO-11-24669
R-33 S2	1112.4	05/16/11	WG	Dissolved Oxygen	6.38	mg/L	CAMO-11-10768
R-33 S2	1112.4	07/09/14	WG	Flow (in gpm)	2.7	gpm	CAMO-14-81576
R-33 S2	1112.4	08/04/11	WG	Flow (in gpm)	2.7	gpm	CAMO-11-24669
R-33 S2	1112.4	05/16/11	WG	Flow (in gpm)	2.8	gpm	CAMO-11-10768
R-33 S2	1112.4	02/11/11	WG	Flow (in gpm)	2.8	gpm	CAMO-11-4667

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
R-33 S2	1112.4	11/18/10	WG	Flow (in gpm)	2.7	gpm	CAMO-11-1300
R-33 S2	1112.4	07/09/14	WG	Oxidation-Reduction Potential	49	mV	CAMO-14-81576
R-33 S2	1112.4	07/11/13	WG	Oxidation-Reduction Potential	69.2	mV	CAMO-13-37038
R-33 S2	1112.4	08/21/12	WG	Oxidation-Reduction Potential	149.4	mV	CAMO-12-21789
R-33 S2	1112.4	08/04/11	WG	Oxidation-Reduction Potential	244.8	mV	CAMO-11-24669
R-33 S2	1112.4	05/16/11	WG	Oxidation-Reduction Potential	117.5	mV	CAMO-11-10768
R-33 S2	1112.4	07/09/14	WG	pH	7.64	SU	CAMO-14-81576
R-33 S2	1112.4	07/11/13	WG	pH	7.63	SU	CAMO-13-37038
R-33 S2	1112.4	08/21/12	WG	pH	7.71	SU	CAMO-12-21789
R-33 S2	1112.4	08/04/11	WG	pH	7.67	SU	CAMO-11-24669
R-33 S2	1112.4	05/16/11	WG	pH	7.7	SU	CAMO-11-10768
R-33 S2	1112.4	07/09/14	WG	Specific Conductance	142	µS/cm	CAMO-14-81576
R-33 S2	1112.4	07/11/13	WG	Specific Conductance	144	µS/cm	CAMO-13-37038
R-33 S2	1112.4	08/21/12	WG	Specific Conductance	142	µS/cm	CAMO-12-21789
R-33 S2	1112.4	08/04/11	WG	Specific Conductance	137	µS/cm	CAMO-11-24669
R-33 S2	1112.4	05/16/11	WG	Specific Conductance	143	µS/cm	CAMO-11-10768
R-33 S2	1112.4	07/09/14	WG	Temperature	21.7	deg C	CAMO-14-81576
R-33 S2	1112.4	07/11/13	WG	Temperature	21.71	deg C	CAMO-13-37038
R-33 S2	1112.4	08/21/12	WG	Temperature	21.15	deg C	CAMO-12-21789
R-33 S2	1112.4	08/04/11	WG	Temperature	21.61	deg C	CAMO-11-24669
R-33 S2	1112.4	05/16/11	WG	Temperature	22.28	deg C	CAMO-11-10768
R-33 S2	1112.4	07/09/14	WG	Turbidity	0.4	NTU	CAMO-14-81576
R-33 S2	1112.4	07/11/13	WG	Turbidity	0.31	NTU	CAMO-13-37038
R-33 S2	1112.4	08/21/12	WG	Turbidity	0.52	NTU	CAMO-12-21789
R-33 S2	1112.4	08/04/11	WG	Turbidity	0.43	NTU	CAMO-11-24669
R-33 S2	1112.4	05/16/11	WG	Turbidity	0.35	NTU	CAMO-11-10768
Sandia below Wetlands	—[e]	07/21/14	WS[f]	Dissolved Oxygen	8.17	mg/L	CASA-14-84039
Sandia below Wetlands	—	12/04/13	WS	Dissolved Oxygen	10.34	mg/L	CASA-14-46007
Sandia below Wetlands	—	07/24/13	WS	Dissolved Oxygen	8.26	mg/L	CASA-13-38914

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
Sandia below Wetlands	—	05/17/11	WS	Dissolved Oxygen	8.96	mg/L	CASA-11-10788
Sandia below Wetlands	—	11/11/10	WS	Dissolved Oxygen	10.29	mg/L	CASA-11-1334
Sandia below Wetlands	—	07/21/14	WS	pH	8.02	SU	CASA-14-84039
Sandia below Wetlands	—	12/04/13	WS	pH	8.37	SU	CASA-14-46007
Sandia below Wetlands	—	07/24/13	WS	pH	8.05	SU	CASA-13-38914
Sandia below Wetlands	—	05/17/11	WS	pH	8.14	SU	CASA-11-10788
Sandia below Wetlands	—	11/11/10	WS	pH	7.78	SU	CASA-11-1334
Sandia below Wetlands	—	07/21/14	WS	Specific Conductance	506	µS/cm	CASA-14-84039
Sandia below Wetlands	—	12/04/13	WS	Specific Conductance	0.34	µS/cm	CASA-14-46007
Sandia below Wetlands	—	07/24/13	WS	Specific Conductance	0.392	µS/cm	CASA-13-38914
Sandia below Wetlands	—	05/17/11	WS	Specific Conductance	479	µS/cm	CASA-11-10788
Sandia below Wetlands	—	11/11/10	WS	Specific Conductance	610	µS/cm	CASA-11-1334
Sandia below Wetlands	—	07/21/14	WS	Temperature	19.86	deg C	CASA-14-84039
Sandia below Wetlands	—	12/04/13	WS	Temperature	7.04	deg C	CASA-14-46007
Sandia below Wetlands	—	07/24/13	WS	Temperature	18.4	deg C	CASA-13-38914
Sandia below Wetlands	—	05/17/11	WS	Temperature	10.44	deg C	CASA-11-10788
Sandia below Wetlands	—	11/11/10	WS	Temperature	4.34	deg C	CASA-11-1334
Sandia below Wetlands	—	07/21/14	WS	Turbidity	5.85	NTU	CASA-14-84039
Sandia below Wetlands	—	12/04/13	WS	Turbidity	2.94	NTU	CASA-14-46007
Sandia below Wetlands	—	07/24/13	WS	Turbidity	3.9	NTU	CASA-13-38914
Sandia below Wetlands	—	05/17/11	WS	Turbidity	8.82	NTU	CASA-11-10788
Sandia below Wetlands	—	11/11/10	WS	Turbidity	4.29	NTU	CASA-11-1334
Sandia right fork at Pwr Plant	—	07/21/14	WS	Dissolved Oxygen	6.61	mg/L	CASA-14-84040
Sandia right fork at Pwr Plant	—	12/04/13	WS	Dissolved Oxygen	8.02	mg/L	CASA-14-46008
Sandia right fork at Pwr Plant	—	07/22/13	WS	Dissolved Oxygen	7.16	mg/L	CASA-13-37013
Sandia right fork at Pwr Plant	—	05/19/11	WS	Dissolved Oxygen	7.43	mg/L	CASA-11-10791
Sandia right fork at Pwr Plant	—	11/09/10	WS	Dissolved Oxygen	7.56	mg/L	CASA-11-1337
Sandia right fork at Pwr Plant	—	07/21/14	WS	Flow (in gpm)	126	gpm	CASA-14-84040
Sandia right fork at Pwr Plant	—	07/22/13	WS	Flow (in gpm)	139	gpm	CASA-13-37013

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Units	Sample
Sandia right fork at Pwr Plant	—	05/19/11	WS	Flow (in gpm)	768	gpm	CASA-11-10791
Sandia right fork at Pwr Plant	—	11/09/10	WS	Flow (in gpm)	7.67	gpm	CASA-11-1337
Sandia right fork at Pwr Plant	—	07/12/10	WS	Flow (in gpm)	619	gpm	CASA-10-22569
Sandia right fork at Pwr Plant	—	07/21/14	WS	pH	8.04	SU	CASA-14-84040
Sandia right fork at Pwr Plant	—	12/04/13	WS	pH	8	SU	CASA-14-46008
Sandia right fork at Pwr Plant	—	07/22/13	WS	pH	8	SU	CASA-13-37013
Sandia right fork at Pwr Plant	—	05/19/11	WS	pH	8.29	SU	CASA-11-10791
Sandia right fork at Pwr Plant	—	11/09/10	WS	pH	8.23	SU	CASA-11-1337
Sandia right fork at Pwr Plant	—	07/21/14	WS	Specific Conductance	541	µS/cm	CASA-14-84040
Sandia right fork at Pwr Plant	—	12/04/13	WS	Specific Conductance	0.57	µS/cm	CASA-14-46008
Sandia right fork at Pwr Plant	—	07/22/13	WS	Specific Conductance	346	µS/cm	CASA-13-37013
Sandia right fork at Pwr Plant	—	05/19/11	WS	Specific Conductance	593	µS/cm	CASA-11-10791
Sandia right fork at Pwr Plant	—	11/09/10	WS	Specific Conductance	708	µS/cm	CASA-11-1337
Sandia right fork at Pwr Plant	—	07/21/14	WS	Temperature	22.63	deg C	CASA-14-84040
Sandia right fork at Pwr Plant	—	12/04/13	WS	Temperature	11.8	deg C	CASA-14-46008
Sandia right fork at Pwr Plant	—	07/22/13	WS	Temperature	20.22	deg C	CASA-13-37013
Sandia right fork at Pwr Plant	—	05/19/11	WS	Temperature	16.6	deg C	CASA-11-10791
Sandia right fork at Pwr Plant	—	11/09/10	WS	Temperature	15.97	deg C	CASA-11-1337
Sandia right fork at Pwr Plant	—	07/21/14	WS	Turbidity	1.4	NTU	CASA-14-84040
Sandia right fork at Pwr Plant	—	12/04/13	WS	Turbidity	1.13	NTU	CASA-14-46008
Sandia right fork at Pwr Plant	—	05/19/11	WS	Turbidity	2.3	NTU	CASA-11-10791
Sandia right fork at Pwr Plant	—	11/09/10	WS	Turbidity	1.56	NTU	CASA-11-1337
Sandia right fork at Pwr Plant	—	07/12/10	WS	Turbidity	2.25	NTU	CASA-10-22569

[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	Control Laboratory Program
CRDL	contract-required detection limit
CRI	CDRL check standard
DCG	Derived Concentration Guide (DOE)
DDE	dichlorodiphenyldichloroethylene
DNX	dinitroso-RDX (or hexahydro-1,3-dinitroso-5-nitro-1,3,5-triazine)
DOE	Department of Energy (U.S.)
DQO	data quality objective
EPA	Environmental Protection Agency (U.S.)
GC	gas chromatography
GC/MS	gas chromatography/mass spectrometry
GFAA	graphite furnace atomic absorption
GFPC	gas-flow proportional counter
GW	groundwater
HH OO	Human Health—Organism Only (NMWQCC standard)
HMX	1,3,5,7-tetranitro-1,3,5,7-tetrazocine
HPLC	high-pressure liquid chromatography
ICAL	initial calibration
ICPAES	inductively coupled plasma atomic (optical) emission spectroscopy
ICV	initial calibration verification
IDL	instrument detection limit

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Field QC Type Codes (continued)	
PEK	performance evaluation known
REG	regular
RES	resample
SS	special sampling event, data unique
SS-EQB	equipment blank of special sampling event, data unique
SS-FB	field blank of special sampling event, data unique
SS-FD	field duplicate of special sampling event, data unique
SS-FTB	field trip blank of special sampling event, data unique
Analytical Suite Codes	
DIOX/FUR, Diox/Fur	dioxins and furans
DRO	diesel range organics
Geninorg, GENINORG, General Chemistry	general inorganics
GRO	gasoline range organics
HERB	herbicides
HEXP	high explosives
INORGANIC	inorganics
ISOTOPE, Isotope	isotope ratios
LCMS/MS	liquid chromatography mass spectrometry/mass spectrometry
METALS, Metals	metals
PEST/PCB, PESTPCB	pesticides and PCBs
RAD, Rad	radiochemistry
SVOC, SVOA	semivolatile organic compounds
VOC, VOA	volatile organic compounds
Detect Flag 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 Mortandad and Sandia Watershed General Surveillance Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
MCO-7	39.000	01/29/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0552	—	—	0.017	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/2013	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0293	—	—	0.017	mg/L	Y	J	U	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.075	—	—	0.017	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0449	—	—	0.017	mg/L	Y	J	J	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0392	—	—	0.017	mg/L	Y	J	U	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	05/21/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.829	—	—	0.033	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.11	—	—	0.033	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/2013	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.08	—	—	0.033	mg/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.981	—	—	0.033	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.06	—	—	0.033	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.941	—	—	0.033	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/2011	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.933	—	—	0.033	mg/L	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	05/21/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.16	—	—	0.017	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.76	—	—	0.085	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/2013	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.96	—	—	0.085	mg/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.35	—	—	0.085	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.16	—	—	0.085	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.21	—	—	0.05	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	08/03/2011	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.905	—	—	0.05	mg/L	Y	—	J	11-3027	CAMO-11-24622	GELC
MCO-7	39.000	05/21/2014	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	12.1	—	—	1	ug/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/2014	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	11.1	—	—	1	ug/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/2013	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	9.38	—	—	1	ug/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/2012	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.23	—	—	0.5	ug/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/2012	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	7.06	—	—	0.5	ug/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/2012	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	7.47	—	—	0.5	ug/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/2011	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	7.73	—	—	1	ug/L	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	05/21/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	439	—	—	3.4	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	307	—	—	3.4	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/2013	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	294	—	—	3.4	mg/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	257	—	—	3.4	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	286	—	—	3.4	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	281	—	—	3.4	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/2011	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	297	—	—	3.4	mg/L	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	05/21/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.159	—	—	0.033	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.263	—	—	0.033	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/2013	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.172	—	—	0.033	mg/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.17	—	—	0.035	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/2012	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.249	—	—	0.035	mg/L	Y	—	U	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	12/14/2007	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.063	—	—	0.029	mg/L	Y	J	J	199581	GF071100G7CM01	GELC
MCO-7	39.000	12/14/2007	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.068	—	—	0.029	mg/L	Y	J	J	199581	GF071100G7CM20	GELC
Sandia below Wetlands	—	04/16/2013	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	24.42	—	—	—	permil	Y	—	NQ	2013-730	CASA-13-30507	EES6
Sandia below Wetlands	—	05/13/2010	WS	F	INIT	FD	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	10.5116	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16691	EES6
Sandia below Wetlands	—	05/13/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	9.99897	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16687	EES6
Sandia below Wetlands	—	01/29/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	-999	—	—	—	permil	N	—	NQ	10-1503	CASA-10-9411	EES6
Sandia below Wetlands	—	11/04/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	33.91	—	—	—	permil	N	—	NQ	10-350	CASA-10-3594	EES6
Sandia below Wetlands	—	08/07/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	19.73	—	—	0.01	permil	N	—	NQ	09-2811	CASA-09-10307	EES6
Sandia below Wetlands	—	04/16/2013	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	1.26	—	—	—	permil	Y	—	NQ	2013-730	CASA-13-30507	EES6
Sandia below Wetlands	—	05/13/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-6.91713	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16687	EES6
Sandia below Wetlands	—	05/13/2010	WS	F	INIT	FD	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-6.48028	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16691	EES6
Sandia below Wetlands	—	01/29/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-999	—	—	—	permil	N	—	NQ	10-1503	CASA-10-9411	EES6
Sandia below Wetlands	—	11/04/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	6.96	—	—	—	permil	N	—	NQ	10-350	CASA-10-3594	EES6

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

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia below Wetlands	—	08/07/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-2.01	—	—	—	permil	N	—	NQ	09-2811	CASA-09-10307	EES6
Sandia right fork at Pwr Plant	—	04/16/2013	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	35.95	—	—	—	permil	Y	—	NQ	2013-730	CASA-13-30508	EES6
Sandia right fork at Pwr Plant	—	05/07/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	27.5622	—	—	—	permil	N	—	NQ	10-3101	CASA-10-16681	EES6
Sandia right fork at Pwr Plant	—	02/01/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	53.25	—	—	—	permil	N	—	NQ	10-1539	CASA-10-9112	EES6
Sandia right fork at Pwr Plant	—	11/02/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	50.05	—	—	—	permil	N	—	NQ	10-318	CASA-10-3559	EES6
Sandia right fork at Pwr Plant	—	08/07/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	N	27.81	—	—	0.001	permil	N	U	U	09-2811	CASA-09-10305	EES6
Sandia right fork at Pwr Plant	—	04/16/2013	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	6.93	—	—	—	permil	Y	—	NQ	2013-730	CASA-13-30508	EES6
Sandia right fork at Pwr Plant	—	05/07/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-3.63271	—	—	—	permil	N	—	NQ	10-3101	CASA-10-16681	EES6
Sandia right fork at Pwr Plant	—	02/01/2010	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	16.57	—	—	—	permil	N	—	NQ	10-1539	CASA-10-9112	EES6
Sandia right fork at Pwr Plant	—	11/02/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	15.01	—	—	—	permil	N	—	NQ	10-318	CASA-10-3559	EES6
Sandia right fork at Pwr Plant	—	08/07/2009	WS	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-2.77	—	—	—	permil	N	—	NQ	09-2811	CASA-09-10305	EES6

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.2	—	—	0.01	SU	Y	H	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.01	—	—	0.01	SU	Y	H	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.3	—	—	0.01	SU	Y	H	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.95	—	—	0.01	SU	Y	H	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.97	—	—	0.01	SU	Y	H	J-	12-323	CAMO-12-1459	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.1	—	—	0.725	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	124	—	—	0.725	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	121	—	—	0.725	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	119	—	—	0.725	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	115	—	—	0.73	mg/L	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0165	0.00953	0.0521	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0121	0.00855	0.0276	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00161	0.0097	0.032	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	Y	0.0415	0.0097	0.033	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0196	0.0072	0.026	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	394	—	—	1	ug/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	202	—	—	1	ug/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	196	—	—	1	ug/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	209	—	—	1	ug/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	209	—	—	1	ug/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	65	—	—	15	ug/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	63.3	—	—	15	ug/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	66	—	—	15	ug/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	67.1	—	—	15	ug/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	70.5	—	—	15	ug/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	50.9	—	—	0.05	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25.4	—	—	0.05	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.2	—	—	0.05	mg/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25.2	—	—	0.05	mg/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	26.4	—	—	0.05	mg/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.422	1.48	5.22	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.142	1.94	4.82	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.66	1.5	5.6	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.245	1.7	5	—	pCi/L	Y	U	U	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.4	1.6	5.5	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	164	—	—	3.35	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	54.4	—	—	0.67	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	64.1	—	—	0.67	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	68.8	—	—	0.66	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	77.6	—	—	0.66	mg/L	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.649	1.2	4.82	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.81	1.33	4.46	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.171	1.5	4.8	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.75	1.8	6.3	—	pCi/L	Y	U	U	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.84	1.5	5.4	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.726	—	—	0.033	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	05/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.829	—	—	0.033	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.11	—	—	0.033	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.08	—	—	0.033	mg/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.981	—	—	0.033	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.893	0.889	2.92	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.9	1.05	2.26	—	pCi/L	Y	—	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.48	1.4	2.6	—	pCi/L	Y	—	NQ	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.29	1.7	3.9	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/28/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.21	0.81	1.64	—	pCi/L	Y	—	J-	192790	GU070800G7CM01	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	43.1	2.09	2.96	—	pCi/L	Y	—	NQ	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	20.3	1.54	2.14	—	pCi/L	Y	—	NQ	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.17	1.2	2.9	—	pCi/L	Y	—	NQ	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	30.5	3.2	2.4	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/28/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	23.5	2.54	2.81	—	pCi/L	Y	—	J-	192790	GU070800G7CM01	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	170	—	—	0.453	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.3	—	—	0.453	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.9	—	—	0.35	mg/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.7	—	—	0.35	mg/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	89	—	—	0.35	mg/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	10.4	—	—	0.11	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.34	—	—	0.11	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.94	—	—	0.085	mg/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.3	—	—	0.085	mg/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.59	—	—	0.085	mg/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	21.8	—	—	0.165	ug/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	41.2	—	—	0.165	ug/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	35.8	—	—	0.1	ug/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	36.8	—	—	0.1	ug/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	35.7	—	—	0.1	ug/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.164	2.42	8.76	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.27	2.49	9.18	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	7.27	3.3	12	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.63	7.9	26	—	pCi/L	Y	U	U	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.57	9.7	29	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.98	—	—	0.5	ug/L	Y	J	J	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.28	—	—	0.5	ug/L	Y	—	J	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.79	—	—	0.5	ug/L	Y	J	J	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.41	—	—	0.5	ug/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.24	—	—	0.5	ug/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.29	—	—	0.017	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	05/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.16	—	—	0.017	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.76	—	—	0.085	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.96	—	—	0.085	mg/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.35	—	—	0.085	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	12	—	—	1	ug/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	05/21/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	12.1	—	—	1	ug/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	11.1	—	—	1	ug/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	9.38	—	—	1	ug/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.23	—	—	0.5	ug/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00664	0.00664	0.0229	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.013	0.00813	0.0146	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0112	0.007	0.025	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	Y	0.034	0.011	0.032	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.02	0.0098	0.025	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0133	0.007	0.0435	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0152	0.00841	0.0262	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0205	0.0068	0.025	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.054	0.015	0.039	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00908	0.0066	0.031	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	23	—	—	0.05	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	16.5	—	—	0.05	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	17.3	—	—	0.05	mg/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	18.3	—	—	0.5	mg/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	21.7	19	51.5	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20.8	17.3	60.4	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.16	26	90	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.94	18	60	—	pCi/L	Y	U	U	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20.8	18	57	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	2.15	—	—	1.5	ug/L	Y	J	J	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.84	—	—	1.5	ug/L	Y	J	J	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.16	—	—	1	ug/L	Y	J	J	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.06	—	—	1	ug/L	Y	J	J	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	ug/L	Y	U	U	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	41.6	—	—	0.053	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43	—	—	0.053	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	44.5	—	—	0.053	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	40.7	—	—	0.053	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43.9	—	—	0.053	mg/L	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	80	—	—	0.1	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	54.5	—	—	0.1	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	55.7	—	—	0.1	mg/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	54.4	—	—	1	mg/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	53.8	—	—	0.1	mg/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0599	1.22	4.65	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.677	1.33	4.86	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.802	1.7	5.9	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.26	1.6	5.6	—	pCi/L	Y	U	U	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.21	1.6	5.8	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	826	—	—	1	uS/cm	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	465	—	—	1	uS/cm	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	499	—	—	1	uS/cm	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	531	—	—	1	uS/cm	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	526	—	—	1	uS/cm	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	306	—	—	1	ug/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	154	—	—	1	ug/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	154	—	—	1	ug/L	Y	—	NQ	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	169	—	—	1	ug/L	Y	—	NQ	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	151	—	—	1	ug/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	6.47	0.349	0.461	—	pCi/L	Y	—	NQ	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	2.77	0.245	0.487	—	pCi/L	Y	—	NQ	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	3.42	0.41	0.44	—	pCi/L	Y	—	NQ	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	2.8	0.31	0.29	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	1.7	0.25	0.41	—	pCi/L	Y	—	NQ	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19	—	—	0.133	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.6	—	—	0.133	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.8	—	—	0.133	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
MCO-7	39.000	03/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	11/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	12-323	CAMO-12-1459	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	556	—	—	3.4	mg/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	05/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	439	—	—	3.4	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
MCO-7	39.000	01/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	307	—	—	3.4	mg/L	Y	—	NQ	2014-2812	CAMO-14-53820	GELC
MCO-7	39.000	11/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	294	—	—	3.4	mg/L	Y	—	NQ	2014-2547	CAMO-14-45679	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	257	—	—	3.4	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.169	—	—	0.033	mg/L	Y	—	NQ	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0385	—	—	0.035	mg/L	Y	J	J	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	08/03/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.118	—	—	0.035	mg/L	Y	—	U	11-3026	CAMO-11-24621	GELC
MCO-7	39.000	05/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.0855	—	—	0.035	mg/L	Y	J	U	11-2456	CAMO-11-10746	GELC
MCO-7	39.000	02/10/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.053	—	—	0.033	mg/L	Y	J	J	11-1325	CAMO-11-4635	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.19	—	—	0.33	mg/L	Y	—	NQ	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.06	—	—	0.33	mg/L	Y	—	NQ	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	08/03/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.04	—	—	0.33	mg/L	Y	—	NQ	11-3026	CAMO-11-24621	GELC
MCO-7	39.000	05/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.21	—	—	0.33	mg/L	Y	—	NQ	11-2456	CAMO-11-10746	GELC
MCO-7	39.000	02/10/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.51	—	—	0.33	mg/L	Y	—	NQ	11-1325	CAMO-11-4635	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.189	—	—	0.017	mg/L	Y	—	J	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.26	—	—	0.017	mg/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	05/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.244	—	—	0.017	mg/L	Y	—	NQ	12-1326	CAMO-12-14054	GELC
MCO-7	39.000	03/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.287	—	—	0.015	mg/L	Y	—	NQ	12-1138	CAMO-12-12523	GELC
MCO-7	39.000	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.432	—	—	0.015	mg/L	Y	—	J	11-3027	CAMO-11-24622	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	381	63.7	159	—	pCi/L	Y	—	NQ	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	607	57.2	126	—	pCi/L	Y	—	NQ	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	962	140	240	—	pCi/L	Y	—	NQ	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	762	96	150	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	518	81	130	—	pCi/L	Y	—	NQ	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.6	—	—	0.067	ug/L	Y	—	NQ	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.817	—	—	0.067	ug/L	Y	—	NQ	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.803	—	—	0.05	ug/L	Y	—	U	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.765	—	—	0.05	ug/L	Y	—	J+	10-1496	CAMO-10-9291	GELC
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.862	—	—	0.05	ug/L	Y	—	NQ	09-2875	CAMO-09-9512	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.277	0.0253	0.0482	—	pCi/L	Y	—	J	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.336	0.0382	0.0928	—	pCi/L	Y	—	NQ	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.325	0.04	0.078	—	pCi/L	Y	—	NQ	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.405	0.046	0.11	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.202	0.022	0.056	—	pCi/L	Y	—	NQ	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0194	0.00829	0.0313	—	pCi/L	Y	U	U	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0215	0.0114	0.0599	—	pCi/L	Y	U	U	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0113	0.0085	0.047	—	pCi/L	Y	U	U	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0329	0.012	0.055	—	pCi/L	Y	U	U	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0161	0.0058	0.03	—	pCi/L	Y	U	U	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.21	0.0224	0.0477	—	pCi/L	Y	—	NQ	2014-3909	CAMO-14-81571	GELC
MCO-7	39.000	08/14/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.334	0.0354	0.0471	—	pCi/L	Y	—	NQ	12-1498	CAMO-12-21784	GELC
MCO-7	39.000	07/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.251	0.033	0.054	—	pCi/L	Y	—	NQ	10-3601	CAMO-10-22816	GELC
MCO-7	39.000	08/13/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.375	0.043	0.056	—	pCi/L	Y	—	NQ	09-2875	CAMO-09-9514	GELC
MCO-7	39.000	08/19/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.168	0.019	0.029	—	pCi/L	Y	—	NQ	08-1712	CAMO-08-14483	GELC
MCO-7	39.000	07/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.72	—	—	1	ug/L	Y	J	J	2014-3909	CAMO-14-81580	GELC
MCO-7	39.000	08/14/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.11	—	—	1	ug/L	Y	J	J	12-1498	CAMO-12-21793	GELC
MCO-7	39.000	07/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.44	—	—	1	ug/L	Y	J	J	10-3600	CAMO-10-22817	GELC
MCO-7	39.000	01/28/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	3.26	—	—	1	ug/L	Y	J	U	10-1496	CAMO-10-9291	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
MCO-7	39.000	08/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.23	—	—	1	ug/L	Y	J	J	09-2875	CAMO-09-9512	GELC
R-12 S1	459.000	07/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	26.635	4.11	1.855	—	pCi/L	Y	—	J-	2014-3872	CASA-14-84037	ARSL
R-12 S1	459.000	07/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.728	0.703	2.104	—	pCi/L	Y	U	U	2013-1438	CASA-13-37010	ARSL
R-12 S1	459.000	06/03/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	15.0374	2.4794	2.7692	—	pCi/L	Y	—	U	11-2626	CASA-11-10823	ARSL
R-12 S1	459.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	122.646	68.2786	223.237	—	pCi/L	N	U	R	11-747	CASA-11-1356	ARSL
R-12 S1	459.000	11/17/10	WG	UF	RE	REG	RAD	EPA:906.0	Tritium	H-3	N	122.646	68.2786	223.237	—	pCi/L	Y	U	U	11-747	CASA-11-1356	ARSL
R-12 S1	459.000	05/05/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	64.8508	9.7888	1.7388	—	pCi/L	N	—	R	10-3122	CASA-10-16747	ARSL
R-12 S1	459.000	05/05/10	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	65.3016	9.8532	1.7388	—	pCi/L	Y	—	NQ	10-3122	CASA-10-16747	ARSL
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.19	—	—	0.01	SU	Y	H	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.2	—	—	0.01	SU	Y	H	J-	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.2	—	—	0.01	SU	Y	H	J-	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	J-	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.9	—	—	0.01	SU	Y	H	J-	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.3	—	—	0.725	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.3	—	—	0.725	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.4	—	—	0.725	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.9	—	—	0.725	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	76.5	—	—	0.73	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77	—	—	0.73	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.1	—	—	0.73	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.3	—	—	0.73	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0039	0.0323	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00613	0.0359	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0028	0.00484	0.035	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0194	0.00941	0.0296	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00642	0.0054	0.03	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0107	0.0057	0.021	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.71	—	—	1.7	ug/L	Y	J	J	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	1.71	—	—	1.7	ug/L	Y	J	J	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.74	—	—	1.7	ug/L	Y	J	J	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.08	—	—	1.7	ug/L	Y	J	J	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	19.8	—	—	1	ug/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	19.7	—	—	1	ug/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.4	—	—	1	ug/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.5	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.4	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.9	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	16.5	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	17.9	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.2	—	—	15	ug/L	Y	J	J	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	19.5	—	—	15	ug/L	Y	J	J	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16	—	—	15	ug/L	Y	J	J	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	20	—	—	15	ug/L	Y	J	J	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	20.3	—	—	15	ug/L	Y	J	J	11-3264	CAMO-11-24692	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	21	—	—	15	ug/L	Y	J	J	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	19.4	—	—	15	ug/L	Y	J	J	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	16.9	—	—	15	ug/L	Y	J	J	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	19.4	—	—	0.05	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	19.4	—	—	0.05	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.3	—	—	0.05	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.2	—	—	0.05	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.5	—	—	0.05	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.1	—	—	0.05	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.6	—	—	0.05	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18	—	—	0.05	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.232	1.35	4.75	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.742	1.42	5.5	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.38	1.54	5.24	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.869	1.62	5.71	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.331	1.3	4.5	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.665	1.2	4.2	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.71	—	—	0.067	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.71	—	—	0.067	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.64	—	—	0.067	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.54	—	—	0.067	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.58	—	—	0.066	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.59	—	—	0.066	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.5	—	—	0.066	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.62	—	—	0.066	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.61	—	—	2	ug/L	Y	J	J	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.18	—	—	2	ug/L	Y	J	J	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.54	—	—	2	ug/L	Y	J	J	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.18	—	—	2	ug/L	Y	J	J	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.92	—	—	2	ug/L	Y	J	J	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.3	—	—	2	ug/L	Y	J	J	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.57	1.4	5.67	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0585	1.51	5.65	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.19	1.39	5.01	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.42	1.62	5.39	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.962	1.6	5	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.828	1.3	4	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.316	—	—	0.033	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.286	—	—	0.033	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.362	—	—	0.033	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.334	—	—	0.033	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.35	—	—	0.033	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.343	—	—	0.033	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.311	—	—	0.033	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.354	—	—	0.033	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.99	0.922	2.7	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.581	0.738	2.82	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.537	0.267	2.19	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0397	0.428	2.24	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.771	0.45	2.7	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.59	0.8	2.2	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.4	0.834	2.46	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.66	0.795	2.26	—	pCi/L	Y	—	NQ	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.83	0.844	2.73	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.05	0.845	2.33	—	pCi/L	Y	—	NQ	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.83	1	2.6	—	pCi/L	Y	—	NQ	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.0574	0.67	2.5	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.4	—	—	0.453	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.5	—	—	0.453	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.7	—	—	0.453	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	57.8	—	—	0.453	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.5	—	—	0.45	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60	—	—	0.45	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.6	—	—	0.45	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.1	—	—	0.45	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.7	—	—	0.11	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.72	—	—	0.11	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.81	—	—	0.11	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.81	—	—	0.11	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.77	—	—	0.11	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.8	—	—	0.11	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.65	—	—	0.11	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.51	—	—	0.11	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	11.2	—	—	2	ug/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Manganese	Mn	Y	11.6	—	—	2	ug/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	13.2	—	—	2	ug/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	13.9	—	—	2	ug/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	12.3	—	—	2	ug/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	12.8	—	—	2	ug/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	11.1	—	—	2	ug/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	10.1	—	—	2	ug/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.1	—	—	0.165	ug/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.14	—	—	0.165	ug/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.16	—	—	0.165	ug/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.25	—	—	0.165	ug/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26	—	—	0.17	ug/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.16	—	—	0.17	ug/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.971	—	—	0.17	ug/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02	—	—	0.17	ug/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.59	2.57	9.62	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.56	2.65	9.1	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.42	2.69	9.37	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.88	3.18	11.2	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	7.84	3.1	11	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.58	2.3	7.9	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.507	—	—	0.017	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.507	—	—	0.017	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.417	—	—	0.017	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.875	—	—	0.085	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.181	—	—	0.01	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.191	—	—	0.01	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.535	—	—	0.05	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.488	—	—	0.05	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.412	—	—	0.05	ug/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.427	—	—	0.05	ug/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.461	—	—	0.05	ug/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.447	—	—	0.05	ug/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.429	—	—	0.05	ug/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.433	—	—	0.05	ug/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.433	—	—	0.05	ug/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.427	—	—	0.05	ug/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0036	0.00623	0.0435	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00459	0.0393	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0066	0.0305	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00593	0.02	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00227	0.0032	0.03	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0021	0.034	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0144	0.00881	0.0756	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0357	0.0142	0.0683	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00539	0.00539	0.0347	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00297	0.00663	0.0357	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00227	0.0039	0.031	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0106	0.0077	0.031	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.9	—	—	0.05	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.91	—	—	0.05	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.75	—	—	0.05	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.98	—	—	0.05	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.93	—	—	0.05	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	3.01	—	—	0.05	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.86	—	—	0.05	mg/L	Y	—	J	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.71	—	—	0.05	mg/L	Y	—	J	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.8	16.4	66.3	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-25.9	14.7	55	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.26	19	71.5	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.77	23.4	88.8	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	22.2	18	70	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.1	19	59	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	52.2	—	—	0.053	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	52	—	—	0.053	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.9	—	—	0.053	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.7	—	—	0.053	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	57.7	—	—	0.053	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.5	—	—	0.053	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.9	—	—	0.053	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	49.7	—	—	0.053	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13	—	—	0.1	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	14	—	—	0.1	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.724	1.12	4.57	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.812	1.18	4.94	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.77	1.71	7.06	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.04	1.56	6.29	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.95	1.6	4.8	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.197	1.3	4.3	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	171	—	—	1	uS/cm	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	170	—	—	1	uS/cm	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	169	—	—	1	uS/cm	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	172	—	—	1	uS/cm	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	1	uS/cm	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	1	uS/cm	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	1	uS/cm	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	175	—	—	1	uS/cm	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	177	—	—	1	ug/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	177	—	—	1	ug/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	176	—	—	1	ug/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	186	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	195	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	191	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	161	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	177	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.144	0.1	0.379	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0666	0.104	0.379	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.297	0.152	0.496	—	pCi/L	Y	U	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.258	0.155	0.51	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0528	0.13	0.48	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.203	0.12	0.49	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.95	—	—	0.133	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.98	—	—	0.133	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.82	—	—	0.133	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.74	—	—	0.133	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.84	—	—	0.1	mg/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.88	—	—	0.1	mg/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.72	—	—	0.1	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.79	—	—	0.1	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	104	—	—	3.4	mg/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	84.3	—	—	3.4	mg/L	Y	—	J	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	95.7	—	—	3.4	mg/L	Y	—	J	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	2.4	mg/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	2.4	mg/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0492	—	—	0.017	mg/L	Y	J	J	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0193	—	—	0.017	mg/L	Y	J	J	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0173	—	—	0.017	mg/L	Y	J	J	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	11-3264	CAMO-11-24692	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0621	—	—	0.015	mg/L	Y	—	U	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0378	—	—	0.015	mg/L	Y	J	U	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.064	—	—	0.015	mg/L	Y	—	U	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.08	—	—	0.067	ug/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.1	—	—	0.067	ug/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.19	—	—	0.067	ug/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.24	—	—	0.067	ug/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.14	—	—	0.067	ug/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.2	—	—	0.067	ug/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.03	—	—	0.067	ug/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.07	—	—	0.067	ug/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.532	0.0367	0.0604	—	pCi/L	Y	—	NQ	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.562	0.0377	0.0605	—	pCi/L	Y	—	NQ	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.512	0.0359	0.0518	—	pCi/L	Y	—	J	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.568	0.0457	0.0846	—	pCi/L	Y	—	J	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.617	0.072	0.15	—	pCi/L	Y	—	NQ	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.597	0.065	0.059	—	pCi/L	Y	—	NQ	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0302	0.0105	0.0364	—	pCi/L	Y	U	U	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0121	0.00854	0.0364	—	pCi/L	Y	U	U	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0309	0.0107	0.0303	—	pCi/L	Y	—	U	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0274	0.013	0.0546	—	pCi/L	Y	U	U	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0253	0.013	0.07	—	pCi/L	Y	U	U	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0223	0.01	0.054	—	pCi/L	Y	U	U	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.356	0.0297	0.0539	—	pCi/L	Y	—	NQ	2014-4008	CAMO-14-81572	GELC
R-16 S2	863.400	07/23/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.318	0.0281	0.054	—	pCi/L	Y	—	NQ	2014-4008	CAMO-14-85069	GELC
R-16 S2	863.400	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.395	0.0316	0.0418	—	pCi/L	Y	—	J	2013-1334	CAMO-13-37034	GELC
R-16 S2	863.400	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.367	0.035	0.0429	—	pCi/L	Y	—	J	12-1492	CAMO-12-21785	GELC
R-16 S2	863.400	07/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.434	0.056	0.09	—	pCi/L	Y	—	NQ	10-3657	CAMO-10-22896	GELC
R-16 S2	863.400	05/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.387	0.047	0.054	—	pCi/L	Y	—	NQ	10-3019	CAMO-10-16855	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	14	—	—	1	ug/L	Y	—	NQ	2014-4008	CAMO-14-81581	GELC
R-16 S2	863.400	07/23/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	13.5	—	—	1	ug/L	Y	—	NQ	2014-4008	CAMO-14-85071	GELC
R-16 S2	863.400	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.7	—	—	1	ug/L	Y	—	NQ	2013-1334	CAMO-13-37043	GELC
R-16 S2	863.400	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.5	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21794	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.6	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24692	GELC
R-16 S2	863.400	08/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.7	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24693	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.2	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10753	GELC
R-16 S2	863.400	05/27/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.8	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10757	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.81	—	—	0.01	SU	Y	H	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	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	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	—	—	0.01	SU	Y	H	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	J-	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	J-	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.3	—	—	0.725	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.8	—	—	0.725	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	80.6	—	—	0.725	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	90.5	—	—	0.725	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.3	—	—	0.73	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	100	—	—	0.73	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00583	0.00583	0.0342	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00302	0.00799	0.0354	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00614	0.00752	0.0257	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0263	0.00971	0.0278	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00627	0.0029	0.024	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.005	0.0024	0.03	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0066	0.0041	0.029	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0503	—	—	0.017	mg/L	Y	—	U	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.162	—	—	0.017	mg/L	Y	—	J	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.358	—	—	0.017	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.033	—	—	0.017	mg/L	Y	J	J	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	02/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	11-1382	CAMO-11-4645	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.44	—	—	1.7	ug/L	Y	J	J	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	3.08	—	—	1.7	ug/L	Y	J	J	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.4	—	—	1.7	ug/L	Y	J	J	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.37	—	—	1.7	ug/L	Y	J	J	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	46.3	—	—	1	ug/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	47.5	—	—	1	ug/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	47.8	—	—	1	ug/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	46.5	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	44.6	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	41.4	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	24.4	—	—	15	ug/L	Y	J	J	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	24.9	—	—	15	ug/L	Y	J	J	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.6	—	—	15	ug/L	Y	J	J	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	25.6	—	—	15	ug/L	Y	J	J	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	25	—	—	15	ug/L	Y	J	J	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.7	—	—	15	ug/L	Y	J	J	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	19	—	—	0.05	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.7	—	—	0.05	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.7	—	—	0.05	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.1	—	—	0.05	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.2	—	—	0.05	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.2	1.34	5.12	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.48	2.09	4.44	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.99	1.28	5.17	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.527	1.64	5.92	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.88	1.5	5.5	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.6	1.2	4.4	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.619	1.4	4.5	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.37	—	—	0.067	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.39	—	—	0.067	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.32	—	—	0.067	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.35	—	—	0.067	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.35	—	—	0.066	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.31	—	—	0.066	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.89	1.26	3.2	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.1	1.21	4.24	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.67	1.16	3.9	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.628	1.29	5.25	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.127	1.4	4.5	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.59	1.4	4.2	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.31	1.5	5.5	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.335	—	—	0.033	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.336	—	—	0.033	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.385	—	—	0.033	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.37	—	—	0.033	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.364	—	—	0.033	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.37	—	—	0.033	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.8	0.925	2.79	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.404	0.815	2.94	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.759	0.64	2.24	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.6	0.768	2.11	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.936	0.86	3	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.52	0.77	2.1	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.56	0.78	2.1	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.34	0.582	1.79	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4.08	0.721	1.77	—	pCi/L	Y	—	NQ	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.13	0.895	2.83	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.39	0.619	1.91	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.38	1	2.3	—	pCi/L	Y	—	NQ	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.57	0.92	2.2	—	pCi/L	Y	—	NQ	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.53	0.92	2.2	—	pCi/L	Y	—	NQ	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.3	—	—	0.453	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.9	—	—	0.453	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	57.3	—	—	0.453	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.4	—	—	0.453	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	61.6	—	—	0.45	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.8	—	—	0.45	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.18	—	—	0.11	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.13	—	—	0.11	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.35	—	—	0.11	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.49	—	—	0.11	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.54	—	—	0.11	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.43	—	—	0.11	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	64.7	—	—	2	ug/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Manganese	Mn	Y	64.2	—	—	2	ug/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	68	—	—	2	ug/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	66.2	—	—	2	ug/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	54.9	—	—	2	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	40.4	—	—	2	ug/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.68	—	—	0.165	ug/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.43	—	—	0.165	ug/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.51	—	—	0.165	ug/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.69	—	—	0.165	ug/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.56	—	—	0.17	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.38	—	—	0.17	ug/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.159	2.39	8.45	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.441	2.76	9.73	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.454	2.36	8.43	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.68	2.49	7.95	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.64	2.9	10	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.19	2.7	9	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.03	2.5	8.1	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.61	—	—	0.5	ug/L	Y	J	J	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.733	—	—	0.5	ug/L	Y	J	J	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.874	—	—	0.5	ug/L	Y	J	J	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.709	—	—	0.5	ug/L	Y	J	J	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.932	—	—	0.5	ug/L	Y	J	J	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.478	—	—	0.017	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.496	—	—	0.017	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.383	—	—	0.017	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.477	—	—	0.085	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.142	—	—	0.01	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.451	—	—	0.05	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.381	—	—	0.05	ug/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.38	—	—	0.05	ug/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.371	—	—	0.05	ug/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.384	—	—	0.05	ug/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.352	—	—	0.05	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.372	—	—	0.05	ug/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00659	0.00807	0.0398	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00611	0.00864	0.0369	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00696	0.0311	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00526	0.00526	0.0177	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0041	0.023	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00226	0.0023	0.026	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00436	0.0038	0.025	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00658	0.0123	0.0692	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0137	0.0642	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0184	0.0467	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00526	0.00744	0.0317	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0029	0.037	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00218	0.0049	0.045	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00452	0.0039	0.047	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.77	—	—	0.05	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.79	—	—	0.05	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.85	—	—	0.05	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.09	—	—	0.05	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.02	—	—	0.05	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.04	—	—	0.05	mg/L	Y	—	J	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.19	16.4	64.8	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-21.1	19.4	71	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.54	16.8	62.9	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.18	18.2	46.5	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.52	19	69	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.9	14	52	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-22.3	17	54	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	42.7	—	—	0.053	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	43	—	—	0.053	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.7	—	—	0.053	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	49.7	—	—	0.053	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	49.5	—	—	0.053	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.4	—	—	0.053	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.9	—	—	0.1	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	14.1	—	—	0.1	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.4	—	—	0.1	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.7	—	—	0.1	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.4	—	—	0.1	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.09	1.67	4.99	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.837	1.39	5	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.359	1.27	5.04	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.75	1.09	3.56	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.17	1.3	4.1	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.705	1.3	4.2	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.986	1.2	3.5	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	178	—	—	1	uS/cm	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	176	—	—	1	uS/cm	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	179	—	—	1	uS/cm	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	181	—	—	1	uS/cm	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	185	—	—	1	uS/cm	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	185	—	—	1	uS/cm	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	209	—	—	1	ug/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	209	—	—	1	ug/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	222	—	—	1	ug/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	236	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	235	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	219	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.15	0.135	0.457	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.133	0.114	0.384	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.118	0.143	0.497	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0636	0.138	0.491	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0882	0.14	0.49	—	pCi/L	Y	U	U	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.123	0.13	0.43	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0314	0.12	0.41	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.58	—	—	0.133	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.52	—	—	0.133	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.48	—	—	0.133	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.56	—	—	0.133	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.69	—	—	0.1	mg/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.64	—	—	0.1	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	116	—	—	3.4	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	106	—	—	3.4	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	61.4	—	—	3.4	mg/L	Y	—	J	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	2.4	mg/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.848	—	—	0.033	mg/L	Y	—	NQ	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.0467	—	—	0.033	mg/L	Y	J	U	2013-1370	CAMO-13-37035	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	08/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	11-3264	CAMO-11-24689	GELC
R-16 S4	1237.000	05/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.115	—	—	0.035	mg/L	Y	—	U	11-2572	CAMO-11-10760	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.458	—	—	0.33	mg/L	Y	J	J	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.436	—	—	0.33	mg/L	Y	J	J	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.741	—	—	0.33	mg/L	Y	J	J	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.05	—	—	0.33	mg/L	Y	—	NQ	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	08/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-3264	CAMO-11-24689	GELC
R-16 S4	1237.000	05/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.842	—	—	0.33	mg/L	Y	J	J	11-2572	CAMO-11-10760	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0829	—	—	0.017	mg/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.117	—	—	0.017	mg/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.139	—	—	0.017	mg/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.129	—	—	0.017	mg/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0941	—	—	0.015	mg/L	Y	—	U	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.134	—	—	0.015	mg/L	Y	—	U	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.56	—	—	0.067	ug/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.35	—	—	0.067	ug/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.38	—	—	0.067	ug/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.31	—	—	0.067	ug/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.36	—	—	0.067	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.32	—	—	0.067	ug/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.699	0.0488	0.0806	—	pCi/L	Y	—	NQ	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.509	0.041	0.0754	—	pCi/L	Y	—	NQ	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.758	0.0455	0.0581	—	pCi/L	Y	—	J	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.663	0.0448	0.0773	—	pCi/L	Y	—	NQ	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.77	0.065	0.037	—	pCi/L	Y	—	NQ	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.676	0.064	0.056	—	pCi/L	Y	—	NQ	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.673	0.064	0.055	—	pCi/L	Y	—	NQ	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0362	0.0133	0.0485	—	pCi/L	Y	U	U	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0301	0.0119	0.0454	—	pCi/L	Y	U	U	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0265	0.0105	0.0356	—	pCi/L	Y	U	U	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0215	0.0101	0.0499	—	pCi/L	Y	U	U	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0481	0.011	0.027	—	pCi/L	Y	—	NQ	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0362	0.011	0.037	—	pCi/L	Y	U	U	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0258	0.0093	0.036	—	pCi/L	Y	U	U	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.449	0.039	0.0719	—	pCi/L	Y	—	NQ	2014-3989	CAMO-14-81573	GELC
R-16 S4	1237.000	07/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.408	0.0361	0.0673	—	pCi/L	Y	—	NQ	2014-3989	CAMO-14-85070	GELC
R-16 S4	1237.000	07/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.429	0.0345	0.0504	—	pCi/L	Y	—	J	2013-1370	CAMO-13-37035	GELC
R-16 S4	1237.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.385	0.0339	0.0392	—	pCi/L	Y	—	NQ	12-1492	CAMO-12-21786	GELC
R-16 S4	1237.000	02/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.482	0.045	0.027	—	pCi/L	Y	—	NQ	11-1382	CAMO-11-4644	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.424	0.045	0.037	—	pCi/L	Y	—	NQ	11-585	CAMO-11-1308	GELC
R-16 S4	1237.000	11/17/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.464	0.048	0.036	—	pCi/L	Y	—	NQ	11-585	CAMO-11-1305	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.5	—	—	1	ug/L	Y	—	NQ	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	12	—	—	1	ug/L	Y	—	NQ	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.7	—	—	1	ug/L	Y	—	NQ	2013-1370	CAMO-13-37044	GELC
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.7	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11	—	—	1	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.2	—	—	1	ug/L	Y	—	NQ	11-2573	CAMO-11-10761	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.91	—	—	3.3	ug/L	Y	J	J	2014-3989	CAMO-14-81582	GELC
R-16 S4	1237.000	07/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.25	—	—	3.3	ug/L	Y	J	J	2014-3989	CAMO-14-85072	GELC
R-16 S4	1237.000	07/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.46	—	—	3.3	ug/L	Y	J	J	2013-1370	CAMO-13-37044	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16 S4	1237.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.78	—	—	3.3	ug/L	Y	J	J	12-1492	CAMO-12-21795	GELC
R-16 S4	1237.000	08/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.2	—	—	3.3	ug/L	Y	—	NQ	11-3264	CAMO-11-24688	GELC
R-16 S4	1237.000	05/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.35	—	—	3.3	ug/L	Y	J	J	11-2573	CAMO-11-10761	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.02	—	—	0.01	SU	Y	H	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	J-	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.6	—	—	0.725	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.6	—	—	0.725	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79	—	—	0.725	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.8	—	—	0.725	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	81.2	—	—	0.73	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	81.5	—	—	0.73	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00515	0.00728	0.0488	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.014	0.00742	0.0351	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00269	0.00713	0.0337	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0122	0.00645	0.028	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00583	0.0033	0.035	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00285	0.0026	0.041	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0344	—	—	0.017	mg/L	Y	J	J	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0527	—	—	0.017	mg/L	Y	—	U	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.576	—	—	0.017	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0846	—	—	0.017	mg/L	Y	—	U	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	63.5	—	—	1	ug/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.7	—	—	1	ug/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	63.8	—	—	1	ug/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.2	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	63.9	—	—	1	ug/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	57.3	—	—	1	ug/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.9	—	—	15	ug/L	Y	J	J	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.3	—	—	15	ug/L	Y	J	J	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	17.2	—	—	15	ug/L	Y	J	J	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.5	—	—	15	ug/L	Y	J	J	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	19.2	—	—	15	ug/L	Y	J	J	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.1	—	—	15	ug/L	Y	J	J	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	19.8	—	—	0.05	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.1	—	—	0.05	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.3	—	—	0.05	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.3	—	—	0.05	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20	—	—	0.05	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.1	—	—	0.05	mg/L	Y	N	J-	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.4	1.32	4.96	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.904	1.61	5.75	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.837	1.55	4.73	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.61	1.75	6.71	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.937	1.1	3.9	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.59	2.6	7.9	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.39	—	—	0.067	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.4	—	—	0.067	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.39	—	—	0.067	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.35	—	—	0.067	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.31	—	—	0.066	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.46	—	—	0.066	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.89	—	—	2	ug/L	Y	J	J	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.64	—	—	2	ug/L	Y	J	J	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.23	—	—	2	ug/L	Y	J	J	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.73	—	—	2	ug/L	Y	J	J	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.47	—	—	2	ug/L	Y	J	J	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.34	—	—	2	ug/L	Y	J	J	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.04	—	—	1	ug/L	Y	J	J	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	ug/L	Y	U	U	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.881	1.4	5.09	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.38	1.62	5.1	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.531	1.41	5.18	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.55	1.33	4.12	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.65	1.2	3.5	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.379	2	6.8	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.349	—	—	0.033	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.398	—	—	0.033	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.401	—	—	0.033	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.382	—	—	0.033	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.402	—	—	0.033	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.427	—	—	0.033	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.517	0.641	2.38	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.869	0.767	2.72	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.457	0.596	2.36	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.503	0.508	1.97	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.05	0.94	2.5	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	08/11/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	1.86	0.41	0.98	—	pCi/L	Y	—	NQ	09-2841	CAMO-09-9556	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.53	0.646	2.01	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.7	0.974	2.8	—	pCi/L	Y	—	NQ	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.1	0.838	2.67	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.85	0.837	2.54	—	pCi/L	Y	—	NQ	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.14	1	2.9	—	pCi/L	Y	—	NQ	10-3712	CAMO-10-22861	GELC
R-16r	600.000	08/11/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.458	0.49	2.1	—	pCi/L	Y	U	U	09-2841	CAMO-09-9556	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.6	—	—	0.453	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.4	—	—	0.453	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.9	—	—	0.453	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.3	—	—	0.453	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53	—	—	0.45	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.9	—	—	0.45	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	0.797	—	—	0.11	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	0.804	—	—	0.11	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	0.821	—	—	0.11	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	0.774	—	—	0.11	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	0.768	—	—	0.11	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	0.784	—	—	0.11	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04	—	—	0.165	ug/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.11	—	—	0.165	ug/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.165	ug/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	ug/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.1	—	—	0.17	ug/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.17	ug/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.64	3.02	11.2	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.939	2.63	9.55	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.48	2.66	9.84	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.164	3.21	11.1	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.37	2.4	8.2	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.51	9.3	32	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.602	—	—	0.5	ug/L	Y	J	J	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.628	—	—	0.5	ug/L	Y	J	J	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.91	—	—	0.5	ug/L	Y	J	J	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.964	—	—	0.5	ug/L	Y	J	J	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.07	—	—	0.5	ug/L	Y	J	J	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.83	—	—	0.5	ug/L	Y	J	J	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.51	—	—	0.017	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.439	—	—	0.017	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.435	—	—	0.017	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.441	—	—	0.017	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.52	—	—	0.05	mg/L	Y	—	J	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.51	—	—	0.05	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.385	—	—	0.05	ug/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.384	—	—	0.05	ug/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.387	—	—	0.05	ug/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.409	—	—	0.05	ug/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.387	—	—	0.05	ug/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.369	—	—	0.05	ug/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00242	0.00998	0.025	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00275	0.00615	0.0311	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00303	0.00526	0.0343	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00566	0.00566	0.019	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0096	0.0068	0.032	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0026	0.043	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00968	0.00765	0.0476	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0193	0.00825	0.0354	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00607	0.0391	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00283	0.0049	0.0341	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0024	0.0093	0.033	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00765	0.0051	0.03	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.32	—	—	0.05	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.35	—	—	0.05	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.38	—	—	0.05	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.37	—	—	0.05	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.02	—	—	0.05	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20.6	20.6	66	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.8	17.1	41.4	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	7.68	15.4	39.1	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.7	17.4	67.8	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.48	17	60	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-24.1	24	71	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	41.4	—	—	0.053	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	40.7	—	—	0.053	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	41.3	—	—	0.053	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	41.3	—	—	0.053	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	41.9	—	—	0.053	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	37.8	—	—	0.053	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16.9	—	—	0.1	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.4	—	—	0.1	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.5	—	—	0.1	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.3	—	—	0.1	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.409	1.27	4.82	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.531	1.28	4.82	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.867	1.19	4.66	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.15	1.24	4.4	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.02	1.3	4.3	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.77	2.1	7.1	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	200	—	—	1	uS/cm	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	1	uS/cm	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	175	—	—	1	uS/cm	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	180	—	—	1	uS/cm	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	1	uS/cm	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	180	—	—	1	uS/cm	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	191	—	—	1	ug/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	184	—	—	1	ug/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	185	—	—	1	ug/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	187	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	187	—	—	1	ug/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	173	—	—	1	ug/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0661	0.12	0.45	—	pCi/L	Y	U	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.251	0.133	0.494	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00286	0.141	0.496	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.105	0.139	0.491	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0286	0.13	0.48	—	pCi/L	Y	U	U	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.193	0.14	0.47	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.54	—	—	0.133	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.43	—	—	0.133	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.41	—	—	0.133	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.32	—	—	0.133	mg/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.31	—	—	0.1	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.61	—	—	0.1	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	103	—	—	3.4	mg/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	101	—	—	3.4	mg/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-16r	600.000	08/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	147	—	—	3.4	mg/L	Y	H	J	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	113	—	—	3.4	mg/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	122	—	—	2.4	mg/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.2	—	—	0.067	ug/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.24	—	—	0.067	ug/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.28	—	—	0.067	ug/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.26	—	—	0.067	ug/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.997	—	—	0.067	ug/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.19	—	—	0.067	ug/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.763	0.0404	0.0453	—	pCi/L	Y	—	NQ	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.76	0.0412	0.0426	—	pCi/L	Y	—	NQ	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.727	0.0378	0.0397	—	pCi/L	Y	—	NQ	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.715	0.0455	0.0716	—	pCi/L	Y	—	NQ	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.754	0.064	0.044	—	pCi/L	Y	—	NQ	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.763	0.067	0.061	—	pCi/L	Y	—	NQ	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0312	0.0104	0.0294	—	pCi/L	Y	—	U	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0127	0.00984	0.0249	—	pCi/L	Y	U	U	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.026	0.00853	0.0232	—	pCi/L	Y	—	NQ	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0364	0.0119	0.0462	—	pCi/L	Y	U	U	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0471	0.011	0.027	—	pCi/L	Y	—	NQ	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0271	0.0088	0.035	—	pCi/L	Y	U	U	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.336	0.0269	0.0449	—	pCi/L	Y	—	NQ	2014-3887	CAMO-14-81574	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.407	0.0296	0.0344	—	pCi/L	Y	—	NQ	2013-1331	CAMO-13-37036	GELC
R-16r	600.000	07/24/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.371	0.0268	0.032	—	pCi/L	Y	—	NQ	2013-1331	CAMO-13-37027	GELC
R-16r	600.000	08/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.506	0.0376	0.0363	—	pCi/L	Y	—	NQ	12-1492	CAMO-12-21787	GELC
R-16r	600.000	07/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.31	0.032	0.031	—	pCi/L	Y	—	NQ	10-3712	CAMO-10-22861	GELC
R-16r	600.000	02/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.355	0.038	0.04	—	pCi/L	Y	—	NQ	10-1646	CAMO-10-9337	GELC
R-16r	600.000	07/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	13.9	—	—	1	ug/L	Y	—	NQ	2014-3887	CAMO-14-81583	GELC
R-16r	600.000	07/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.8	—	—	1	ug/L	Y	—	NQ	2013-1331	CAMO-13-37045	GELC
R-16r	600.000	07/24/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.9	—	—	1	ug/L	Y	—	NQ	2013-1331	CAMO-13-37028	GELC
R-16r	600.000	08/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.5	—	—	1	ug/L	Y	—	NQ	12-1492	CAMO-12-21796	GELC
R-16r	600.000	08/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.5	—	—	1	ug/L	Y	—	NQ	11-3144	CAMO-11-24682	GELC
R-16r	600.000	05/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.4	—	—	1	ug/L	Y	—	NQ	11-2493	CAMO-11-10750	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.77	—	—	0.01	SU	Y	H	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.77	—	—	0.01	SU	Y	H	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.74	—	—	0.01	SU	Y	H	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.75	—	—	0.01	SU	Y	H	J-	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.77	—	—	0.01	SU	Y	H	J-	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.76	—	—	0.01	SU	Y	H	J-	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.76	—	—	0.01	SU	Y	H	J-	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.7	—	—	0.725	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66	—	—	0.725	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.5	—	—	0.725	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.8	—	—	0.73	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.8	—	—	0.73	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.4	—	—	0.73	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.6	—	—	0.73	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0125	0.0066	0.0473	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00649	0.00649	0.0407	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0126	0.00755	0.0345	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00509	0.0038	0.032	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0199	0.0066	0.03	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	32	—	—	1	ug/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.4	—	—	1	ug/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.2	—	—	1	ug/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.5	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	34.1	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.1	—	—	1	ug/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.9	—	—	1	ug/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	16	—	—	15	ug/L	Y	J	J	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	ug/L	Y	U	U	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.6	—	—	0.05	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.6	—	—	0.05	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.7	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.9	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.237	1.48	5.55	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.391	1.6	5.89	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.565	1.76	6.25	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.442	1.6	5.3	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.67	2.2	8	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.41	—	—	0.067	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.24	—	—	0.067	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.25	—	—	0.067	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.3	—	—	0.066	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.28	—	—	0.066	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.26	—	—	0.066	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.27	—	—	0.066	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.06	—	—	2	ug/L	Y	J	J	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.12	—	—	2	ug/L	Y	J	J	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.48	—	—	2	ug/L	Y	J	J	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.51	—	—	2	ug/L	Y	J	J	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.5	—	—	2	ug/L	Y	J	J	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.18	—	—	2	ug/L	Y	J	J	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.86	—	—	2	ug/L	Y	J	J	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.597	1.37	5.81	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.28	1.29	6.04	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.04	1.56	5.6	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.102	1.2	4	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.5	1.8	5.6	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.174	—	—	0.033	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.361	—	—	0.033	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.225	—	—	0.033	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.228	—	—	0.033	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.236	—	—	0.033	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.26	—	—	0.033	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.256	—	—	0.033	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.01	0.929	2.85	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.657	0.613	2.26	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.327	0.542	2.03	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.927	0.83	2.9	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.33	0.65	2.7	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.07	0.857	2.16	—	pCi/L	Y	—	NQ	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.37	0.895	2.44	—	pCi/L	Y	—	NQ	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.68	0.888	2.88	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.66	0.75	2.3	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.702	0.69	2.4	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44	—	—	0.453	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47	—	—	0.453	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.6	—	—	0.453	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47	—	—	0.45	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48.1	—	—	0.45	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.1	—	—	0.45	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45	—	—	0.45	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.76	—	—	0.11	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4	—	—	0.11	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.81	—	—	0.11	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.01	—	—	0.11	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.02	—	—	0.11	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.85	—	—	0.11	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.63	—	—	0.11	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.165	ug/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.28	—	—	0.165	ug/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	ug/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.16	—	—	0.17	ug/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13	—	—	0.17	ug/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.17	ug/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.17	ug/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.86	2.94	11.4	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.65	2.37	8.24	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.194	3.14	11	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.57	3.4	10	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.84	2.5	8.8	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.94	—	—	0.5	ug/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.705	—	—	0.5	ug/L	Y	J	J	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.73	—	—	0.5	ug/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.74	—	—	0.5	ug/L	Y	J	J	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.69	—	—	0.5	ug/L	Y	J	J	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.15	—	—	0.5	ug/L	Y	J	J	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.19	—	—	0.5	ug/L	Y	J	J	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.631	—	—	0.017	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.517	—	—	0.017	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.902	—	—	0.17	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.595	—	—	0.05	mg/L	Y	—	J	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.59	—	—	0.05	mg/L	Y	—	J	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.55	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.545	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.382	—	—	0.05	ug/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.396	—	—	0.05	ug/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.413	—	—	0.05	ug/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.436	—	—	0.05	ug/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.422	—	—	0.05	ug/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.385	—	—	0.05	ug/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.377	—	—	0.05	ug/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0057	0.0057	0.0295	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00632	0.0358	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00287	0.00498	0.0193	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0189	0.011	0.028	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.006	0.0035	0.032	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00698	0.0561	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00632	0.00632	0.0407	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00287	0.00498	0.0346	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0105	0.0063	0.028	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.002	0.0028	0.03	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.47	—	—	0.05	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.46	—	—	0.05	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.53	—	—	0.05	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.55	—	—	0.05	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.53	—	—	0.05	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.51	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.43	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	19.3	16.5	71.1	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.8	15.2	33.4	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-12.8	21.9	78.3	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.826	25	85	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	42.5	17	68	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	76.9	—	—	0.053	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	79.5	—	—	0.053	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.4	—	—	0.053	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.7	—	—	0.053	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.3	—	—	0.053	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.8	—	—	0.053	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.2	—	—	0.053	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.379	1.43	5.6	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.38	1.32	5.85	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.79	1.51	5.55	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.138	1.6	5.2	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.55	1.7	4.1	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	139	—	—	1	uS/cm	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	uS/cm	Y	—	NQ	2013-1100	CAMO-13-37046	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	1	uS/cm	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	138	—	—	1	uS/cm	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	uS/cm	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.7	—	—	1	ug/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52	—	—	1	ug/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.9	—	—	1	ug/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.7	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52.2	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.8	—	—	1	ug/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49	—	—	1	ug/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0281	0.13	0.483	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.149	0.133	0.475	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.079	0.127	0.474	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.118	0.11	0.49	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.142	0.14	0.46	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.24	—	—	0.133	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.13	—	—	0.133	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.1	—	—	0.133	mg/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.23	—	—	0.1	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.15	—	—	0.1	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.32	—	—	0.1	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.19	—	—	0.1	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	204	—	—	3.4	mg/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	J	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	142	—	—	2.4	mg/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	2.4	mg/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.446	—	—	0.33	mg/L	Y	J	J	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.426	—	—	0.33	mg/L	Y	J	J	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.743	—	—	0.33	mg/L	Y	J	J	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	08/04/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-3044	CAMO-11-24664	GELC
R-33 S1	995.500	08/04/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-3044	CAMO-11-24666	GELC
R-33 S1	995.500	05/16/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.342	—	—	0.33	mg/L	Y	J	J	11-2414	CAMO-11-10765	GELC
R-33 S1	995.500	05/16/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2414	CAMO-11-10762	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.833	—	—	0.067	ug/L	Y	—	NQ	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.964	—	—	0.067	ug/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.869	—	—	0.067	ug/L	Y	—	NQ	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.807	—	—	0.067	ug/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.729	—	—	0.067	ug/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.738	—	—	0.067	ug/L	Y	—	NQ	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.768	—	—	0.067	ug/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.553	0.0401	0.0614	—	pCi/L	Y	—	NQ	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.501	0.0375	0.0571	—	pCi/L	Y	—	J	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.492	0.0373	0.07	—	pCi/L	Y	—	J	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.447	0.043	0.049	—	pCi/L	Y	—	NQ	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.457	0.044	0.03	—	pCi/L	Y	—	NQ	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0106	0.00787	0.0399	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81575	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0102	0.0102	0.0333	—	pCi/L	Y	U	U	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.013	0.00793	0.0452	—	pCi/L	Y	U	U	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0257	0.008	0.029	—	pCi/L	Y	U	U	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0183	0.0073	0.028	—	pCi/L	Y	U	U	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.256	0.0279	0.0608	—	pCi/L	Y	—	NQ	2014-3714	CAMO-14-81575	GELC
R-33 S1	995.500	07/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.286	0.0294	0.046	—	pCi/L	Y	—	J	2013-1100	CAMO-13-37037	GELC
R-33 S1	995.500	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.272	0.0282	0.0355	—	pCi/L	Y	—	J	12-1511	CAMO-12-21788	GELC
R-33 S1	995.500	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.202	0.025	0.034	—	pCi/L	Y	—	NQ	10-3636	CAMO-10-22883	GELC
R-33 S1	995.500	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.231	0.027	0.028	—	pCi/L	Y	—	NQ	10-3157	CAMO-10-16816	GELC
R-33 S1	995.500	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.49	—	—	1	ug/L	Y	J	J	2014-3714	CAMO-14-81584	GELC
R-33 S1	995.500	07/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.5	—	—	1	ug/L	Y	—	NQ	2013-1100	CAMO-13-37046	GELC
R-33 S1	995.500	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.96	—	—	1	ug/L	Y	J	J	12-1511	CAMO-12-21797	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.77	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24667	GELC
R-33 S1	995.500	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.18	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24662	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.73	—	—	1	ug/L	Y	J	J	11-2415	CAMO-11-10763	GELC
R-33 S1	995.500	05/16/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.62	—	—	1	ug/L	Y	—	NQ	11-2415	CAMO-11-10766	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.77	—	—	0.01	SU	Y	H	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.85	—	—	0.01	SU	Y	H	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.83	—	—	0.01	SU	Y	H	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	J-	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.86	—	—	0.01	SU	Y	H	J-	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.8	—	—	0.725	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.9	—	—	0.725	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.5	—	—	0.725	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.9	—	—	0.73	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.6	—	—	0.73	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00859	0.00758	0.0543	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00311	0.00695	0.039	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00471	0.00666	0.0323	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00894	0.004	0.033	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0127	0.0065	0.028	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.377	—	—	0.017	mg/L	Y	—	J	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0195	—	—	0.017	mg/L	Y	J	U	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0422	—	—	0.017	mg/L	Y	J	U	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	34.8	—	—	1	ug/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36	—	—	1	ug/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	34	—	—	1	ug/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.7	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.2	—	—	1	ug/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.6	—	—	0.05	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.9	—	—	0.05	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.6	—	—	0.05	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.7	—	—	0.05	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.5	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.27	1.79	6.32	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.69	1.42	5	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.217	1.21	4.34	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.12	2	6.5	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.119	2	7	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.08	—	—	0.067	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.97	—	—	0.067	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.99	—	—	0.067	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.11	—	—	0.066	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.96	—	—	0.066	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.5	—	—	2	ug/L	Y	J	J	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.72	—	—	2	ug/L	Y	J	J	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.06	—	—	2	ug/L	Y	J	J	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.56	—	—	2	ug/L	Y	J	J	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.12	—	—	2	ug/L	Y	J	J	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.04	1.6	5.85	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.49	1.2	4.14	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.44	1.26	5.46	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.722	1.5	4.6	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.29	1.6	5.4	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.156	—	—	0.033	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.191	—	—	0.033	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.187	—	—	0.033	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.221	—	—	0.033	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.248	—	—	0.033	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.41	0.52	2.98	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.69	0.713	1.71	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.416	0.566	2.27	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.8	0.74	2.6	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.37	0.77	2.3	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.18	0.712	1.79	—	pCi/L	Y	—	NQ	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.68	0.861	2.79	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.47	0.913	2.83	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.11	0.69	2.3	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.01	0.95	2.6	—	pCi/L	Y	—	NQ	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.6	—	—	0.453	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44	—	—	0.453	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.8	—	—	0.453	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.9	—	—	0.45	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.8	—	—	0.45	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.94	—	—	0.11	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.1	—	—	0.11	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.94	—	—	0.11	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.3	—	—	0.11	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.01	—	—	0.11	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.935	—	—	0.165	ug/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.165	ug/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.977	—	—	0.165	ug/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.924	—	—	0.17	ug/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.96	—	—	0.17	ug/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.23	3.52	11.7	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.29	2.75	9.4	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.41	2.81	10.4	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.35	3	8.9	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.18	3.3	11	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.365	—	—	0.017	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.324	—	—	0.017	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.342	—	—	0.017	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.414	—	—	0.05	mg/L	Y	—	J	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.352	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.373	—	—	0.05	ug/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.379	—	—	0.05	ug/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.372	—	—	0.05	ug/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.369	—	—	0.05	ug/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.335	—	—	0.05	ug/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00473	0.0345	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0043	0.0344	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00286	0.00496	0.0193	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00203	0.0061	0.027	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00826	0.0051	0.033	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.01	0.01	0.0657	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00304	0.0125	0.0392	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00286	0.0064	0.0345	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00203	0.002	0.028	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00413	0.012	0.03	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.37	—	—	0.05	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.37	—	—	0.05	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.22	—	—	0.05	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.38	—	—	0.05	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.28	—	—	0.05	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.02	21.6	79.8	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.77	24.8	52.6	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	44.8	19.2	36.9	—	pCi/L	Y	UI	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23	20	75	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.3	20	69	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.1	—	—	0.053	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.7	—	—	0.053	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.4	—	—	0.053	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	82.7	—	—	0.053	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74	—	—	0.053	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.44	1.91	6.47	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.03	1.12	3.99	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0741	1.28	5.07	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.437	1.2	3.8	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.651	1.3	4.7	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	137	—	—	1	uS/cm	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	137	—	—	1	uS/cm	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	uS/cm	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	133	—	—	1	uS/cm	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	139	—	—	1	uS/cm	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.1	—	—	1	ug/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.3	—	—	1	ug/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.4	—	—	1	ug/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47	—	—	1	ug/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.162	0.144	0.493	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.173	0.105	0.346	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0577	0.109	0.44	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.246	0.15	0.49	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.226	0.14	0.45	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.32	—	—	0.133	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.21	—	—	0.133	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.29	—	—	0.133	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.43	—	—	0.1	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.49	—	—	0.1	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	2.4	mg/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.197	—	—	0.017	mg/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0349	—	—	0.017	mg/L	Y	J	J	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.061	—	—	0.017	mg/L	Y	—	U	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.313	—	—	0.015	mg/L	Y	—	J	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0625	—	—	0.015	mg/L	Y	—	U	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.901	—	—	0.067	ug/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.1	—	—	0.067	ug/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.997	—	—	0.067	ug/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.859	—	—	0.067	ug/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.876	—	—	0.067	ug/L	Y	—	NQ	11-2415	CAMO-11-10770	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.666	0.0456	0.0643	—	pCi/L	Y	—	NQ	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.544	0.0413	0.0631	—	pCi/L	Y	—	J	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.532	0.0404	0.074	—	pCi/L	Y	—	NQ	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.596	0.055	0.057	—	pCi/L	Y	—	NQ	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.543	0.05	0.029	—	pCi/L	Y	—	NQ	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0221	0.0104	0.0418	—	pCi/L	Y	U	U	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0188	0.0113	0.0368	—	pCi/L	Y	U	U	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0171	0.0103	0.0478	—	pCi/L	Y	U	U	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0327	0.012	0.034	—	pCi/L	Y	U	U	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.0078	0.027	—	pCi/L	Y	U	U	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.281	0.0301	0.0637	—	pCi/L	Y	—	NQ	2014-3714	CAMO-14-81576	GELC
R-33 S2	1112.400	07/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.261	0.0292	0.0509	—	pCi/L	Y	—	J	2013-1128	CAMO-13-37038	GELC
R-33 S2	1112.400	08/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.294	0.0291	0.0376	—	pCi/L	Y	—	NQ	12-1511	CAMO-12-21789	GELC
R-33 S2	1112.400	07/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.329	0.036	0.039	—	pCi/L	Y	—	NQ	10-3636	CAMO-10-22885	GELC
R-33 S2	1112.400	05/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.308	0.032	0.027	—	pCi/L	Y	—	NQ	10-3157	CAMO-10-16818	GELC
R-33 S2	1112.400	07/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.28	—	—	1	ug/L	Y	—	NQ	2014-3714	CAMO-14-81585	GELC
R-33 S2	1112.400	07/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.24	—	—	1	ug/L	Y	—	NQ	2013-1128	CAMO-13-37047	GELC
R-33 S2	1112.400	08/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.22	—	—	1	ug/L	Y	—	NQ	12-1511	CAMO-12-21798	GELC
R-33 S2	1112.400	08/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.66	—	—	1	ug/L	Y	—	NQ	11-3044	CAMO-11-24670	GELC
R-33 S2	1112.400	05/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.88	—	—	1	ug/L	Y	J	J	11-2415	CAMO-11-10770	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	J-	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	11-497	CASA-11-1335	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	J-	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	J-	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	J-	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	122	—	—	0.725	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	146	—	—	0.73	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.2	—	—	0.73	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	101	—	—	0.73	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	100	—	—	0.73	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	264	—	—	0.73	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	79.8	—	—	68	ug/L	Y	J	J	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	ug/L	Y	U	U	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00289	0.00501	0.0339	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0016	0.003	0.03	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0194	0.0068	0.043	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0124	0.0099	0.043	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00491	0.0041	0.035	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00439	0.003	0.03	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.114	—	—	0.017	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.1	—	—	0.016	mg/L	Y	—	U	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.093	—	—	0.016	mg/L	Y	—	J-	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.058	—	—	0.016	mg/L	Y	—	U	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.095	—	—	0.016	mg/L	Y	—	U	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.042	—	—	0.016	mg/L	Y	J	J-	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.9	—	—	1	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.1	—	—	1	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	40	—	—	1	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.9	—	—	1	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.9	—	—	1	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	233	—	—	1	ug/L	Y	—	J	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	67	—	—	15	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	48.3	—	—	15	ug/L	Y	J	J	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	71	—	—	15	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	44.5	—	—	15	ug/L	Y	J	J	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	44.2	—	—	15	ug/L	Y	J	J	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	67	—	—	15	ug/L	Y	—	U	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.24	—	—	0.067	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.495	—	—	0.066	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.398	—	—	0.066	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.235	—	—	0.066	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.237	—	—	0.066	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.239	—	—	0.066	mg/L	Y	—	J+	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.8	—	—	0.05	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.7	—	—	0.05	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	29.9	—	—	0.05	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.8	—	—	0.05	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18	—	—	0.05	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	71.4	—	—	0.05	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.89	1.34	5.58	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.76	1.1	3.8	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0948	1.4	4.6	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.97	1.5	5.8	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.53	1.1	3.7	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.609	1.3	4.2	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	52.8	—	—	0.67	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	36.5	—	—	0.33	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	51.3	—	—	0.33	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	61.1	—	—	0.66	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	61.9	—	—	0.66	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1820	—	—	33	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.14	—	—	2	ug/L	Y	J	J	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.74	—	—	2	ug/L	Y	J	J	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	50	—	—	13	ug/L	Y	U	U	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.63	—	—	2.5	ug/L	Y	J	J	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.12	—	—	2.5	ug/L	Y	J	J	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.95	—	—	2.5	ug/L	Y	J	J	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.46	—	—	2.5	ug/L	Y	J	J	10-2619	CASA-10-9834	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.795	1.2	5.11	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.397	1	3.2	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0936	1.4	4.7	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.655	1.2	4.4	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.389	1.1	3.6	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1	1.4	4.2	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.59	—	—	3	ug/L	Y	J	J	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.9	—	—	3	ug/L	Y	J	J	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	4.17	—	—	3	ug/L	Y	J	J	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	6.72	—	—	3	ug/L	Y	J	J	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	Y	0.00293	—	—	0.00167	mg/L	Y	J	J	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	05/17/11	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	Y	0.00196	—	—	0.0015	mg/L	Y	J	J	11-2430	CASA-11-10788	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.0017	mg/L	Y	U	U	11-497	CASA-11-1334	GELC
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.0017	mg/L	Y	U	U	10-3172	CASA-10-16688	GELC
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	FD	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.0017	mg/L	Y	U	U	10-3172	CASA-10-16692	GELC
Sandia below Wetlands	—	01/29/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	Y	0.00266	—	—	0.0017	mg/L	Y	J	J	10-1502	CASA-10-9412	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.222	—	—	0.033	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.411	—	—	0.033	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.406	—	—	0.033	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.34	—	—	0.033	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.441	—	—	0.033	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.656	—	—	0.17	mg/L	Y	H	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.65	0.935	2.9	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.932	0.83	2.9	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0165	0.38	2	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.57	0.76	2.1	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.04	0.77	2.6	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/22/07	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.765	0.584	2	—	pCi/L	Y	U	U	192216	GU070800P12301	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.8	1.02	1.69	—	pCi/L	Y	—	NQ	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10.3	1.6	2.7	—	pCi/L	Y	—	NQ	11-496	CASA-11-1334	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.8	1.8	2.3	—	pCi/L	Y	—	NQ	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	11.9	1.7	2.7	—	pCi/L	Y	—	NQ	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	14.9	1.9	2.2	—	pCi/L	Y	—	NQ	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/22/07	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	42.9	4.44	3.8	—	pCi/L	Y	—	NQ	192216	GU070800P12301	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	72.2	—	—	0.453	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	92.4	—	—	0.45	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	109	—	—	0.35	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.4	—	—	0.35	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66	—	—	0.35	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	370	—	—	0.35	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	393	—	—	30	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	229	—	—	30	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	211	—	—	30	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	N	119	—	—	30	ug/L	Y	—	U	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	152	—	—	30	ug/L	Y	—	U	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	236	—	—	30	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.91	—	—	0.11	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.45	—	—	0.11	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.25	—	—	0.085	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.22	—	—	0.085	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.23	—	—	0.085	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	46.6	—	—	0.085	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	38.2	—	—	2	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	74.5	—	—	2	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	38.8	—	—	2	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	26.4	—	—	2	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	26.2	—	—	2	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	103	—	—	2	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	4.95	—	—	0.165	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.73	—	—	0.17	ug/L	Y	—	J	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	5.53	—	—	0.1	ug/L	Y	—	J	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	11.5	—	—	0.1	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	12	—	—	0.1	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	4.52	—	—	0.1	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.4	3.08	10.6	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.22	2	6.7	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.11	2.9	9.3	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.72	2.9	10	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	11.6	9.1	27	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-10.4	10	33	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.21	—	—	0.5	ug/L	Y	J	J	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.06	—	—	0.5	ug/L	Y	J	J	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	10	—	—	2.5	ug/L	Y	U	U	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.728	—	—	0.5	ug/L	Y	J	J	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.766	—	—	0.5	ug/L	Y	J	J	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.63	—	—	0.5	ug/L	Y	N	J-	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.145	—	—	0.017	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.432	—	—	0.05	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.69	—	—	0.05	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.21	—	—	0.05	mg/L	Y	J	U	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.212	—	—	0.05	mg/L	Y	J	U	10-3172	CASA-10-16691	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.54	—	—	0.05	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0804	—	—	0.05	ug/L	Y	J	J	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.381	—	—	0.05	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.527	—	—	0.05	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.333	—	—	0.05	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.32	—	—	0.05	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.72	—	—	0.25	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0374	0.0148	0.0564	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.000402	0.0033	0.025	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.01	0.03	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00195	0.002	0.026	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0017	0.003	0.027	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00543	0.006	0.025	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0198	0.0982	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0121	0.009	0.046	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00673	0.005	0.03	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00195	0.0034	0.026	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00681	0.0034	0.033	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00543	0.0048	0.031	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	15.7	—	—	0.05	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	16.1	—	—	0.05	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	12.9	—	—	0.05	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	12	—	—	0.05	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	571	—	—	2.5	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.9	18.1	45.2	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.9	14	48	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.94	19	69	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-10.2	23	79	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.77	14	46	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18	19	65	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.53	—	—	1.5	ug/L	Y	J	J	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	ug/L	Y	U	U	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	ug/L	Y	U	U	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	ug/L	Y	U	U	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	ug/L	Y	U	U	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	86.4	—	—	0.053	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	127	—	—	0.053	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	139	—	—	0.27	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	101	—	—	0.053	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	98.8	—	—	0.053	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	92.3	—	—	0.053	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	66.5	—	—	0.1	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	61	—	—	0.1	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	90.9	—	—	0.1	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	64.4	—	—	0.1	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	65.3	—	—	0.1	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	912	—	—	5	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.53	1.63	6.65	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.09	1	3	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.08	1.3	3.6	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.43	1.5	5.5	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.37	1.1	3.2	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.693	1.4	4.4	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	486	—	—	1	uS/cm	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	489	—	—	1	uS/cm	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	590	—	—	1	uS/cm	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	489	—	—	1	uS/cm	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	495	—	—	1	uS/cm	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	7310	—	—	1	uS/cm	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	86.4	—	—	1	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	69.7	—	—	1	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	140	—	—	1	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	99.1	—	—	1	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	100	—	—	1	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	461	—	—	1	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0694	0.127	0.456	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0749	0.093	0.33	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.125	0.11	0.49	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0726	0.11	0.46	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.434	0.15	0.46	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0307	0.062	0.22	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.6	—	—	1.33	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	37	—	—	0.1	mg/L	Y	—	J+	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28	—	—	0.1	mg/L	Y	—	J+	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	424	—	—	50	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	330	—	—	3.4	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	402	—	—	2.4	mg/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	450	—	—	2.4	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	348	—	—	2.4	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	357	—	—	2.4	mg/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	4400	—	—	2.4	mg/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	1.03	—	—	0.033	mg/L	Y	—	NQ	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	05/17/11	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.051	—	—	0.035	mg/L	Y	J	U	11-2429	CASA-11-10788	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.447	—	—	0.033	mg/L	Y	—	NQ	11-497	CASA-11-1334	GELC
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.434	—	—	0.033	mg/L	Y	—	J-	10-3171	CASA-10-16688	GELC
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.445	—	—	0.033	mg/L	Y	—	J-	10-3171	CASA-10-16692	GELC
Sandia below Wetlands	—	01/29/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.338	—	—	0.033	mg/L	Y	—	J-	10-1502	CASA-10-9412	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	7.15	—	—	0.33	mg/L	Y	—	NQ	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	05/17/11	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	7.16	—	—	0.33	mg/L	Y	—	NQ	11-2429	CASA-11-10788	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.64	—	—	0.33	mg/L	Y	—	NQ	11-497	CASA-11-1334	GELC
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.81	—	—	0.33	mg/L	Y	—	NQ	10-3171	CASA-10-16688	GELC
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.81	—	—	0.33	mg/L	Y	—	NQ	10-3171	CASA-10-16692	GELC
Sandia below Wetlands	—	01/29/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	96.6	—	—	3.3	mg/L	Y	—	NQ	10-1502	CASA-10-9412	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.96	—	—	0.085	mg/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.91	—	—	0.015	mg/L	Y	—	J	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.32	—	—	0.015	mg/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.3	—	—	0.015	mg/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	10-3172	CASA-10-16691	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.88	—	—	0.015	mg/L	Y	—	J	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.235	—	—	0.067	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.364	—	—	0.067	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.37	—	—	0.05	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.246	—	—	0.05	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.273	—	—	0.05	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.85	—	—	0.05	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.166	0.0244	0.0773	—	pCi/L	Y	—	NQ	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.813	0.074	0.055	—	pCi/L	Y	—	NQ	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.124	0.027	0.16	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.116	0.028	0.16	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.144	0.023	0.092	—	pCi/L	Y	—	NQ	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.15	0.028	0.14	—	pCi/L	Y	—	NQ	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00386	0.0102	0.0465	—	pCi/L	Y	U	U	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0195	0.0081	0.036	—	pCi/L	Y	U	U	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00669	0.012	0.074	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0097	0.076	—	pCi/L	Y	U	U	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00332	0.0047	0.052	—	pCi/L	Y	U	U	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0195	0.012	0.077	—	pCi/L	Y	U	U	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.103	0.0195	0.069	—	pCi/L	Y	—	NQ	2014-3960	CASA-14-84039	GELC
Sandia below Wetlands	—	11/11/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.386	0.042	0.036	—	pCi/L	Y	—	NQ	11-496	CASA-11-1334	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0866	0.024	0.095	—	pCi/L	Y	U	U	10-3646	CASA-10-22573	GELC
Sandia below Wetlands	—	07/12/10	WS	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.122	0.027	0.097	—	pCi/L	Y	—	NQ	10-3646	CASA-10-22575	GELC
Sandia below Wetlands	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.02	0.049	—	pCi/L	Y	—	NQ	09-2813	CASA-09-10309	GELC
Sandia below Wetlands	—	08/11/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.026	0.071	—	pCi/L	Y	—	NQ	08-1642	CASA-08-14332	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.18	—	—	1	ug/L	Y	—	NQ	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.5	—	—	1	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	19.2	—	—	1	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.9	—	—	1	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	12	—	—	1	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.4	—	—	1	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia below Wetlands	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.96	—	—	3.3	ug/L	Y	J	J	2014-3960	CASA-14-84047	GELC
Sandia below Wetlands	—	05/17/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.5	—	—	3.3	ug/L	Y	—	NQ	11-2430	CASA-11-10789	GELC
Sandia below Wetlands	—	11/11/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.6	—	—	3.3	ug/L	Y	—	NQ	11-497	CASA-11-1335	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	26	—	—	3.3	ug/L	Y	—	NQ	10-3172	CASA-10-16691	GELC
Sandia below Wetlands	—	05/13/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	26.4	—	—	3.3	ug/L	Y	—	NQ	10-3172	CASA-10-16687	GELC
Sandia below Wetlands	—	01/29/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	42.9	—	—	3.3	ug/L	Y	—	NQ	10-1502	CASA-10-9411	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.17	—	—	0.01	SU	Y	H	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.34	—	—	0.01	SU	Y	H	J-	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.27	—	—	0.01	SU	Y	H	J-	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.3	—	—	0.01	SU	Y	H	J-	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.36	—	—	0.01	SU	Y	H	J-	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	110	—	—	0.725	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.3	—	—	0.725	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	141	—	—	0.73	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	155	—	—	0.73	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	156	—	—	0.73	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	96.5	—	—	0.73	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00855	0.00754	0.0334	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00999	0.0361	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00668	0.0048	0.03	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00167	0.0023	0.029	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0213	0.0065	0.036	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00422	0.0027	0.03	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.101	—	—	0.017	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.133	—	—	0.017	mg/L	Y	—	U	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.116	—	—	0.016	mg/L	Y	—	U	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.102	—	—	0.016	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.044	—	—	0.016	mg/L	Y	J	J	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.094	—	—	0.016	mg/L	Y	—	U	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	28.6	—	—	1	ug/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	20.5	—	—	1	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	20.3	—	—	1	ug/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	56.4	—	—	1	ug/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	58.2	—	—	1	ug/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	64	—	—	1	ug/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	73.1	—	—	15	ug/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	134	—	—	15	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	53.8	—	—	15	ug/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	87.7	—	—	15	ug/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	90.1	—	—	15	ug/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	44.2	—	—	15	ug/L	Y	J	J	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.18	—	—	0.067	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.814	—	—	0.067	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.181	—	—	0.066	mg/L	Y	J	J	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.207	—	—	0.066	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.298	—	—	0.066	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.2	—	—	0.066	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromodichloromethane	75-27-4	Y	1.64	—	—	0.3	ug/L	Y	H	NQ	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromodichloromethane	75-27-4	Y	0.82	—	—	0.3	ug/L	Y	J	J	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	VOC	SW-846:8260B	Bromodichloromethane	75-27-4	Y	7.99	—	—	0.25	ug/L	Y	—	NQ	11-445	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromodichloromethane	75-27-4	Y	6.37	—	—	0.25	ug/L	Y	—	NQ	11-445	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromodichloromethane	75-27-4	Y	3.96	—	—	0.25	ug/L	Y	—	NQ	10-3644	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromodichloromethane	75-27-4	Y	7.07	—	—	0.25	ug/L	Y	—	NQ	10-3090	CASA-10-16680	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromoform	75-25-2	Y	0.46	—	—	0.3	ug/L	Y	HJ	J	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromoform	75-25-2	N	1	—	—	0.3	ug/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromoform	75-25-2	Y	0.7	—	—	0.25	ug/L	Y	J	J	11-445	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	VOC	SW-846:8260B	Bromoform	75-25-2	Y	0.91	—	—	0.25	ug/L	Y	J	J	11-445	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromoform	75-25-2	N	1	—	—	0.25	ug/L	Y	U	UJ	10-3644	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Bromoform	75-25-2	N	1	—	—	0.25	ug/L	Y	U	U	10-3090	CASA-10-16680	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.4	—	—	0.05	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14	—	—	0.05	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.5	—	—	0.05	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	35.6	—	—	0.05	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	37	—	—	0.05	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.4	—	—	0.05	mg/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.955	1.8	5.31	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.382	1.29	4.8	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.398	1.4	4.6	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.45	1.7	4.9	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.482	1.6	5.3	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.79	1.3	4.4	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	65.1	—	—	0.67	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	25.2	—	—	0.67	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	67.2	—	—	0.66	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	101	—	—	0.66	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	100	—	—	0.66	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	87.6	—	—	0.66	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	VOC	SW-846:8260B	Chlorodibromomethane	124-48-1	Y	1.47	—	—	0.3	ug/L	Y	H	NQ	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	VOC	SW-846:8260B	Chlorodibromomethane	124-48-1	Y	0.56	—	—	0.3	ug/L	Y	J	J	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Chlorodibromomethane	124-48-1	Y	4.14	—	—	0.3	ug/L	Y	—	NQ	11-445	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	VOC	SW-846:8260B	Chlorodibromomethane	124-48-1	Y	4.94	—	—	0.3	ug/L	Y	—	NQ	11-445	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Chlorodibromomethane	124-48-1	Y	1.09	—	—	0.3	ug/L	Y	—	NQ	10-3644	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Chlorodibromomethane	124-48-1	Y	2.95	—	—	0.3	ug/L	Y	—	NQ	10-3090	CASA-10-16680	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	1.02	—	—	0.3	ug/L	Y	H	NQ	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.72	—	—	0.3	ug/L	Y	J	J	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	5.38	—	—	0.25	ug/L	Y	—	NQ	11-445	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	VOC	SW-846:8260B	Chloroform	67-66-3	Y	6.73	—	—	0.25	ug/L	Y	—	NQ	11-445	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	7.63	—	—	0.25	ug/L	Y	—	NQ	10-3644	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	7.45	—	—	0.25	ug/L	Y	—	NQ	10-3090	CASA-10-16680	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.91	—	—	2	ug/L	Y	J	J	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.47	—	—	2	ug/L	Y	J	J	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	ug/L	Y	U	U	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.82	—	—	2.5	ug/L	Y	J	J	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.19	—	—	2.5	ug/L	Y	J	J	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.56	—	—	2.5	ug/L	Y	J	J	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	4.75	1.42	6.98	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.24	1.1	4.92	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.125	1.5	4.8	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.29	2	6.2	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.697	1.4	4.7	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.757	1.5	4.3	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.24	—	—	3	ug/L	Y	J	J	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.84	—	—	3	ug/L	Y	J	J	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.23	—	—	3	ug/L	Y	J	J	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.67	—	—	3	ug/L	Y	J	J	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	6.39	—	—	3	ug/L	Y	J	J	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	4.95	—	—	3	ug/L	Y	J	J	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.164	—	—	0.033	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.225	—	—	0.033	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.292	—	—	0.033	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.3	—	—	0.033	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.287	—	—	0.033	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.281	—	—	0.033	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.453	0.774	2.69	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.123	0.598	2.82	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.523	0.68	2.7	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.16	0.85	2.8	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.258	0.51	2.2	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.39	0.62	2.8	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	14.2	1.03	1.84	—	pCi/L	Y	—	NQ	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7	1.11	2.47	—	pCi/L	Y	—	NQ	2013-1293	CASA-13-37013	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10.9	1.7	2.9	—	pCi/L	Y	—	NQ	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	12.2	1.8	2.7	—	pCi/L	Y	—	NQ	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	12.8	1.7	2.5	—	pCi/L	Y	—	NQ	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13	1.9	2.9	—	pCi/L	Y	—	NQ	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.2	—	—	0.453	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.8	—	—	0.453	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	92.5	—	—	0.45	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	129	—	—	0.35	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	134	—	—	0.35	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83	—	—	0.35	mg/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	37.3	—	—	30	ug/L	Y	J	J	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	43.6	—	—	30	ug/L	Y	J	J	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	38.2	—	—	30	ug/L	Y	J	J	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	Y	54	—	—	30	ug/L	Y	J	J	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	64	—	—	30	ug/L	Y	J	J	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	116	—	—	30	ug/L	Y	—	U	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.13	—	—	0.11	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.12	—	—	0.11	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.62	—	—	0.11	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	9.82	—	—	0.085	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	10.2	—	—	0.085	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.59	—	—	0.085	mg/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	5.39	—	—	2	ug/L	Y	J	J	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.02	—	—	2	ug/L	Y	J	J	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	5.51	—	—	2	ug/L	Y	J	J	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	N	6.65	—	—	2	ug/L	Y	J	U	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	6.76	—	—	2	ug/L	Y	J	U	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	12.7	—	—	2	ug/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.95	—	—	0.165	ug/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	4.68	—	—	0.165	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.6	—	—	0.17	ug/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	5.12	—	—	0.1	ug/L	Y	—	J	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	5.2	—	—	0.1	ug/L	Y	—	J	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	29.6	—	—	0.1	ug/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.83	2.64	9.59	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.662	2.8	9.04	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.669	3.1	11	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.27	2.8	9	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0897	3.1	10	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.32	9.2	28	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.879	—	—	0.5	ug/L	Y	J	J	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.1	—	—	0.5	ug/L	Y	J	J	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.19	—	—	0.5	ug/L	Y	J	J	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.23	—	—	0.5	ug/L	Y	J	J	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.01	—	—	0.5	ug/L	Y	J	J	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.653	—	—	0.017	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.14	—	—	0.085	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.98	—	—	0.05	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.57	—	—	0.05	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.605	—	—	0.05	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.58	—	—	0.05	mg/L	Y	—	J	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.137	—	—	0.05	ug/L	Y	J	J	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.316	—	—	0.05	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.163	—	—	0.05	ug/L	Y	J	J	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.245	—	—	0.05	ug/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.241	—	—	0.05	ug/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.678	—	—	0.05	ug/L	Y	—	J	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00762	0.046	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00664	0.00813	0.0375	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00566	0.0057	0.065	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	5.46e-010	0.0092	0.053	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00602	0.0043	0.04	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00337	0.0034	0.027	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0108	0.08	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00664	0.0427	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0057	0.12	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00457	0.0079	0.095	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.012	0.0067	0.041	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00337	0.0024	0.033	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	16.8	—	—	0.05	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	11	—	—	0.05	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	16.4	—	—	0.05	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	15.9	—	—	0.05	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	16.4	—	—	0.05	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	13.1	—	—	0.05	mg/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.66	20.9	83.7	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	34.4	15	53.3	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	14.9	24	90	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.27	21	70	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	57.8	26	47	—	pCi/L	Y	UI	R	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.2	14	52	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	81.8	—	—	0.053	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	83.9	—	—	0.053	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	117	—	—	0.27	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	106	—	—	0.053	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	106	—	—	0.27	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	84.4	—	—	0.053	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	75.5	—	—	0.1	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	46.5	—	—	0.1	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	80.7	—	—	0.1	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	92.7	—	—	0.1	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	95.6	—	—	0.1	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	70.3	—	—	0.1	mg/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0192	1.54	5.99	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.713	1.24	4.49	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.817	1.7	5.3	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.01	2.1	6.2	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.45	1.5	4.4	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.424	1.2	3.7	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	518	—	—	1	uS/cm	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	346	—	—	1	uS/cm	Y	—	NQ	2013-1293	CASA-13-37021	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	586	—	—	1	uS/cm	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	708	—	—	1	uS/cm	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	700	—	—	1	uS/cm	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	572	—	—	1	uS/cm	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	75.1	—	—	1	ug/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.2	—	—	1	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	35.9	—	—	1	ug/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	176	—	—	1	ug/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	182	—	—	1	ug/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	163	—	—	1	ug/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0893	0.127	0.456	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0959	0.125	0.421	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.117	0.14	0.48	—	pCi/L	Y	U	U	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.251	0.13	0.49	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.175	0.13	0.42	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.237	0.099	0.3	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	26.1	—	—	1.33	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.8	—	—	0.133	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.9	—	—	0.1	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.9	—	—	0.1	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.9	—	—	0.1	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	319	—	—	3.4	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	246	—	—	3.4	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	424	—	—	2.4	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	480	—	—	2.4	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	479	—	—	2.4	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	396	—	—	2.4	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.559	—	—	0.033	mg/L	Y	—	NQ	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.485	—	—	0.033	mg/L	Y	—	NQ	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.687	—	—	0.035	mg/L	Y	—	J	11-2475	CASA-11-10791	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.679	—	—	0.033	mg/L	Y	—	J+	11-445	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.625	—	—	0.033	mg/L	Y	—	J+	11-445	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.404	—	—	0.033	mg/L	Y	—	J	10-3090	CASA-10-16680	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.66	—	—	0.33	mg/L	Y	—	NQ	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.43	—	—	0.33	mg/L	Y	—	NQ	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	5.31	—	—	0.33	mg/L	Y	—	NQ	11-2475	CASA-11-10791	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	5.59	—	—	0.33	mg/L	Y	—	NQ	11-445	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	5.72	—	—	0.33	mg/L	Y	—	NQ	11-445	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	5.2	—	—	0.33	mg/L	Y	—	NQ	10-3090	CASA-10-16680	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	3.65	—	—	0.085	mg/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.35	—	—	0.017	mg/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.73	—	—	0.015	mg/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.942	—	—	0.015	mg/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.87	—	—	0.015	mg/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.8	—	—	0.075	mg/L	Y	—	NQ	10-3090	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.159	—	—	0.067	ug/L	Y	J	J	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.212	—	—	0.067	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.266	—	—	0.067	ug/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.848	—	—	0.05	ug/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.836	—	—	0.05	ug/L	Y	—	NQ	11-446	CASA-11-1339	GELC

Table C-2 Mortandad and Sandia Watershed General Surveillance Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.146	—	—	0.05	ug/L	Y	J	J	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.0676	0.0169	0.067	—	pCi/L	Y	—	NQ	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.13	0.0184	0.043	—	pCi/L	Y	—	NQ	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.495	0.05	0.053	—	pCi/L	Y	—	NQ	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.564	0.056	0.055	—	pCi/L	Y	—	NQ	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0979	0.024	0.14	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.177	0.025	0.082	—	pCi/L	Y	—	NQ	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00334	0.00884	0.0403	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0128	0.00677	0.0251	—	pCi/L	Y	U	U	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0402	0.013	0.035	—	pCi/L	Y	—	NQ	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0195	0.01	0.036	—	pCi/L	Y	U	U	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0087	0.068	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0148	0.0089	0.047	—	pCi/L	Y	U	U	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0514	0.014	0.0597	—	pCi/L	Y	U	U	2014-3960	CASA-14-84040	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0663	0.0131	0.0346	—	pCi/L	Y	—	NQ	2013-1293	CASA-13-37013	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.245	0.03	0.035	—	pCi/L	Y	—	NQ	11-447	CASA-11-1340	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.265	0.033	0.036	—	pCi/L	Y	—	NQ	11-447	CASA-11-1337	GELC
Sandia right fork at Pwr Plant	—	07/12/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.02	0.01	0.088	—	pCi/L	Y	U	U	10-3646	CASA-10-22569	GELC
Sandia right fork at Pwr Plant	—	08/07/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0979	0.019	0.043	—	pCi/L	Y	—	NQ	09-2813	CASA-09-10304	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	10.1	—	—	1	ug/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.11	—	—	1	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.2	—	—	1	ug/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	15.8	—	—	1	ug/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	16.1	—	—	1	ug/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.2	—	—	1	ug/L	Y	—	NQ	10-3091	CASA-10-16681	GELC
Sandia right fork at Pwr Plant	—	07/21/14	WS	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	20.5	—	—	3.3	ug/L	Y	—	NQ	2014-3960	CASA-14-84048	GELC
Sandia right fork at Pwr Plant	—	07/22/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	27.9	—	—	3.3	ug/L	Y	—	NQ	2013-1293	CASA-13-37021	GELC
Sandia right fork at Pwr Plant	—	05/19/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	39.6	—	—	3.3	ug/L	Y	—	NQ	11-2475	CASA-11-10792	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	38.8	—	—	3.3	ug/L	Y	—	NQ	11-446	CASA-11-1341	GELC
Sandia right fork at Pwr Plant	—	11/09/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	40	—	—	3.3	ug/L	Y	—	NQ	11-446	CASA-11-1339	GELC
Sandia right fork at Pwr Plant	—	05/07/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	46	—	—	3.3	ug/L	Y	—	NQ	10-3091	CASA-10-16681	GELC

Appendix D

Groundwater Results Greater Than Half of Screening Levels

Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Uncertainty	Minimum Detectable Activity	Unit	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level Code	Result/Screening Level
Alluvial	MCO-7	39	07/17/14	General chemistry	Chloride	Cl(-1)	F[a]	INIT[b]	REG[c]	Y[d]	164	3.35	—[e]	—	mg/L	50	—	NQ[f]	NQ	Y	EPA:300.0	GELC[g]	250	NMWQCC GW STD[h]	0.66
Alluvial	MCO-7	39	11/21/13	General chemistry	Fluoride	F(-1)	F	INIT	REG	Y	1.08	0.033	—	—	mg/L	1	—	NQ	NQ	Y	EPA:300.0	GELC	1.6	NMWQCC GW STD	0.68
Alluvial	MCO-7	39	01/29/14	General chemistry	Fluoride	F(-1)	F	INIT	REG	Y	1.11	0.033	—	—	mg/L	1	—	NQ	NQ	Y	EPA:300.0	GELC	1.6	NMWQCC GW STD	0.69
Alluvial	MCO-7	39	05/21/14	General chemistry	Fluoride	F(-1)	F	INIT	REG	Y	0.829	0.033	—	—	mg/L	1	—	NQ	NQ	Y	EPA:300.0	GELC	1.6	NMWQCC GW STD	0.52
Alluvial	MCO-7	39	11/21/13	General chemistry	Perchlorate	ClO4	F	INIT	REG	Y	9.38	1	—	—	µg/L	20	—	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	2.35
Alluvial	MCO-7	39	01/29/14	General chemistry	Perchlorate	ClO4	F	INIT	REG	Y	11.1	1	—	—	µg/L	20	—	NQ	PE12d[i]	Y	SW-846:6850	GELC	4	Consent Order	2.78
Alluvial	MCO-7	39	05/21/14	General chemistry	Perchlorate	ClO4	F	INIT	REG	Y	12.1	1	—	—	µg/L	20	—	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	3.03
Alluvial	MCO-7	39	07/17/14	General chemistry	Perchlorate	ClO4	F	INIT	REG	Y	12	1	—	—	µg/L	20	—	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	3.00
Alluvial	MCO-7	39	07/17/14	General chemistry	Total Dissolved Solids	TDS	F	INIT	REG	Y	556	3.4	—	—	mg/L	1	—	NQ	NQ	Y	EPA:160.1	GELC	1000	NMWQCC GW STD	0.56
Alluvial	MCO-7	39	07/17/14	RAD	Gross beta	GROSSB	UF[j]	INIT	REG	Y	43.1	—	2.09	2.96	pCi/L	1	—	NQ	NQ	Y	EPA:900	GELC	50	EPA DW ACTION LVL[k]	0.86
Alluvial	MCO-7	39	07/17/14	RAD	Strontium-90	Sr-90	UF	INIT	REG	Y	6.47	—	0.35	0.46	pCi/L	1	—	NQ	NQ	Y	EPA:905.0	GELC	8	EPA MCL[l]	0.81

[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] PE12d = The matrix spike/matrix spike duplicate percent recovery was <10%.

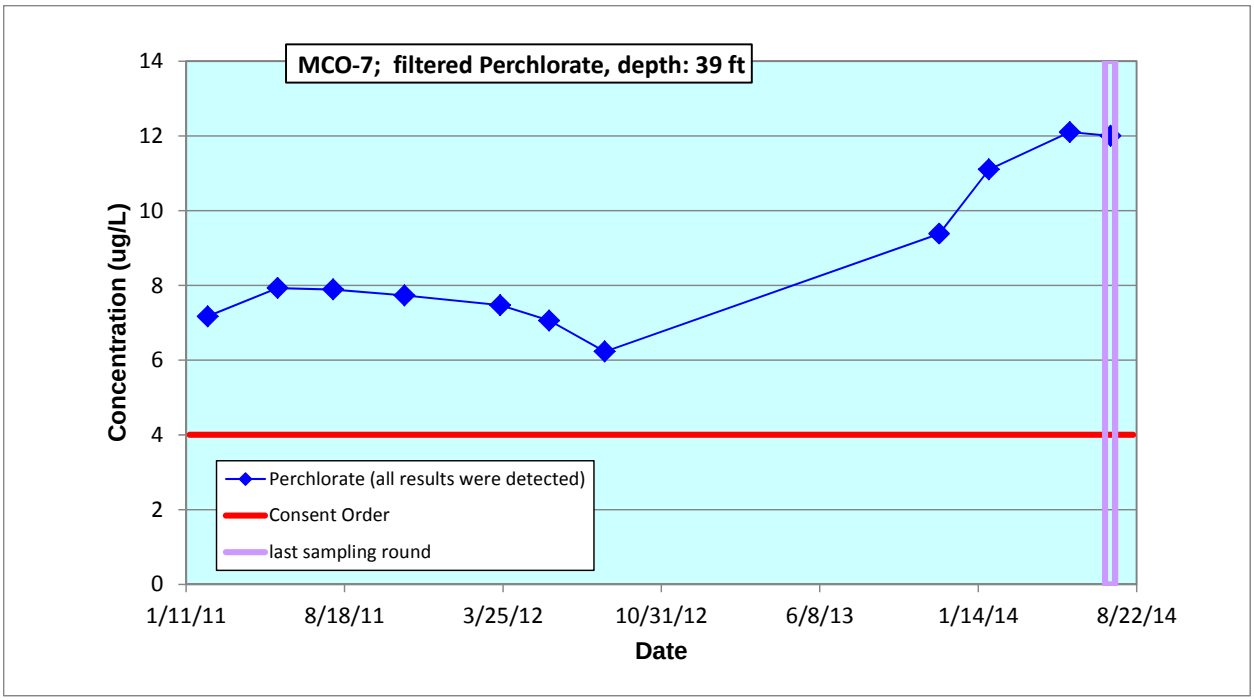
[j] UF = Unfiltered.

[k] EPA DW ACTION LVL = U.S. Environmental Protection Agency drinking water action level..

[l] EPA MCL = U.S. Environmental Protection Agency maximum contaminant level.

Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances


MCO-7; filtered Perchlorate, depth: 39 ft
Concentration (ug/L)
14
12
10
8
6
4
2
0
1/11/11
8/18/11
3/25/12
10/31/12
6/8/13
1/14/14
8/22/14
Date
Perchlorate (all results were detected)
Consent Order
last sampling round

Appendix F

Analytical Reports
(on CD included with this document)

CD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2013-730	Inorganic	EES6[a]	CASA-13-30507	04/16/13	Sandia below Wetlands	—[b]	—
2013-730	Inorganic	EES6	CASA-13-30508	04/16/13	Sandia right fork at Pwr Plant	—	—
2014-2547	Inorganic	GELC[c]	CAMO-14-45679	11/21/13	MCO-7	39	69
2014-2812	Inorganic	GELC	CAMO-14-53820	01/29/14	MCO-7	39	69
2014-3434	Inorganic	GELC	CAMO-14-76546	05/21/14	MCO-7	39	69
2014-3714	Inorganic	GELC	CAMO-14-81575	07/09/14	R-33 S1	995.5	1018.5
2014-3714	Inorganic	GELC	CAMO-14-81576	07/09/14	R-33 S2	1112.4	1122.3
2014-3714	Inorganic	GELC	CAMO-14-81584	07/09/14	R-33 S1	995.5	1018.5
2014-3714	Inorganic	GELC	CAMO-14-81585	07/09/14	R-33 S2	1112.4	1122.3
2014-3714	Organic	GELC	CAMO-14-81575	07/09/14	R-33 S1	995.5	1018.5
2014-3714	Organic	GELC	CAMO-14-81576	07/09/14	R-33 S2	1112.4	1122.3
2014-3714	Rad[d]	GELC	CAMO-14-81575	07/09/14	R-33 S1	995.5	1018.5
2014-3714	Rad	GELC	CAMO-14-81576	07/09/14	R-33 S2	1112.4	1122.3
2014-3872	Rad	ARSL[e]	CASA-14-84037	07/16/14	R-12 S1	459	467.5
2014-3887	Inorganic	GELC	CAMO-14-81574	07/16/14	R-16r	600	617.6
2014-3887	Inorganic	GELC	CAMO-14-81583	07/16/14	R-16r	600	617.6
2014-3887	Organic	GELC	CAMO-14-81574	07/16/14	R-16r	600	617.6
2014-3887	Rad	GELC	CAMO-14-81574	07/16/14	R-16r	600	617.6
2014-3909	Inorganic	GELC	CAMO-14-81580	07/17/14	MCO-7	39	69
2014-3909	Inorganic	GELC	CAMO-14-81571	07/17/14	MCO-7	39	69
2014-3909	Organic	GELC	CAMO-14-81571	07/17/14	MCO-7	39	69
2014-3909	Rad	GELC	CAMO-14-81571	07/17/14	MCO-7	39	69
2014-3960	Inorganic	GELC	CASA-14-84039	07/21/14	Sandia below Wetlands	—	—
2014-3960	Inorganic	GELC	CASA-14-84040	07/21/14	Sandia right fork at Pwr Plant	—	—
2014-3960	Inorganic	GELC	CASA-14-84047	07/21/14	Sandia below Wetlands	—	—
2014-3960	Inorganic	GELC	CASA-14-84048	07/21/14	Sandia right fork at Pwr Plant	—	—
2014-3960	Organic	GELC	CASA-14-84038	07/21/14	R-12 S2	504.5	508
2014-3960	Organic	GELC	CASA-14-84039	07/21/14	Sandia below Wetlands	—	—
2014-3960	Organic	GELC	CASA-14-84040	07/21/14	Sandia right fork at Pwr Plant	—	—
2014-3960	Rad	GELC	CASA-14-84039	07/21/14	Sandia below Wetlands	—	—
2014-3960	Rad	GELC	CASA-14-84040	07/21/14	Sandia right fork at Pwr Plant	—	—
2014-3989	Inorganic	GELC	CAMO-14-81573	07/22/14	R-16 S4	1237	1244.6
2014-3989	Inorganic	GELC	CAMO-14-85070	07/22/14	R-16 S4	1237	1244.6
2014-3989	Inorganic	GELC	CAMO-14-81582	07/22/14	R-16 S4	1237	1244.6
2014-3989	Inorganic	GELC	CAMO-14-85072	07/22/14	R-16 S4	1237	1244.6
2014-3989	Organic	GELC	CAMO-14-81573	07/22/14	R-16 S4	1237	1244.6
2014-3989	Organic	GELC	CAMO-14-85070	07/22/14	R-16 S4	1237	1244.6

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2014-3989	Rad	GELC	CAMO-14-81573	07/22/14	R-16 S4	1237	1244.6
2014-3989	Rad	GELC	CAMO-14-85070	07/22/14	R-16 S4	1237	1244.6
2014-4008	Inorganic	GELC	CAMO-14-81572	07/23/14	R-16 S2	863.4	870.9
2014-4008	Inorganic	GELC	CAMO-14-85069	07/23/14	R-16 S2	863.4	870.9
2014-4008	Inorganic	GELC	CAMO-14-81581	07/23/14	R-16 S2	863.4	870.9
2014-4008	Inorganic	GELC	CAMO-14-85071	07/23/14	R-16 S2	863.4	870.9
2014-4008	Organic	GELC	CAMO-14-81572	07/23/14	R-16 S2	863.4	870.9
2014-4008	Organic	GELC	CAMO-14-85069	07/23/14	R-16 S2	863.4	870.9
2014-4008	Rad	GELC	CAMO-14-81572	07/23/14	R-16 S2	863.4	870.9
2014-4008	Rad	GELC	CAMO-14-85069	07/23/14	R-16 S2	863.4	870.9

[a] EES6 = Hydrology, Geochemistry, and Geology Group (Los Alamos National Laboratory).

[b] — = Not applicable.

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

[d] Rad = Radiochemistry (not gamma).

[e] ARSL = American Radiation Services, Inc.