

LA-UR-15-22644
May 2015
EP2015-0078

**Periodic Monitoring Report
for Material Disposal Area C
Monitoring Group,
November 5–November 21, 2014**




Prepared by the Environmental Programs Directorate

Los Alamos National Laboratory, operated by Los Alamos National Security, LLC, for the U.S. Department of Energy under Contract No. DE-AC52-06NA25396, has prepared this document pursuant to the Compliance Order on Consent, signed March 1, 2005. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory. The U.S. government has rights to use, reproduce, and distribute this document. The public may copy and use this document without charge, provided that this notice and any statement of authorship are reproduced on all copies.

Periodic Monitoring Report for Material Disposal Area C Monitoring Group, November 5–November 21, 2014

May 2015

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the fiscal year 2015, first quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Material Disposal Area C monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2015 Monitoring Year, October 2014–September 2015, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from November 5 to November 21, 2014, and included the monitoring of groundwater wells and well screens. 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.

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 surface-water locations are sampled for this monitoring group.

No results from previous sampling of PME monitoring locations are reported in this PMR. No results from current PME groundwater samples reported in this PMR were above screening levels.

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Acronyms and Abbreviations

amsl	above mean sea level
AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations (U.S.)
Consent Order	Compliance Order on Consent
DCS	Derived Concentration Technical Standard (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
ESH	Environment, Safety, and Health (Directorate)
gpm	gallons per minute
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MDA	material disposal area
MDL	method detection limit
N	no (best value flag code)
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NM HH OO	Human health organism only, New Mexico surface-water standards
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
PQL	practical quantitation limit
QC	quality control
SOP	standard operating procedure
TA	technical area
Y	yes (best value flag code)

1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of fiscal year 2015, first quarter, semiannual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Material Disposal Area (MDA) C monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2015 Monitoring Year, October 2014–September 2015 (2015 IFGMP) (LANL 2014, 256728), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from November 5 to November 21, 2014, and included sampling of groundwater wells and well screens.

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

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

This report presents the following information:

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

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

1.1 Background

MDA C is located on Mesita del Buey in Technical Area 50 (TA-50), at the head of Ten Site Canyon. The MDA C monitoring group includes nearby regional monitoring wells on the mesa top and in Mortandad Canyon. TA-50 is bounded on the north by Effluent and Mortandad Canyons, on the east by the upper reaches of Ten Site Canyon, on the south by Twomile Canyon, and on the west by TA-55.

MDA C (Solid Waste Management Unit 50-009) is an inactive 11.8-acre landfill consisting of 7 disposal pits and 108 shafts. Solid low-level radioactive wastes and chemical wastes were disposed of in the landfill between 1948 and 1974. The depths of the 7 pits at MDA C range from 12 ft to 25 ft below the original ground surface. The depths of the 108 shafts range from 10 ft to 25 ft below the original ground surface. The original ground surface is defined as beneath the cover that was placed over the site in 1984. The pits and shafts are constructed in the Tshirege Member of the Bandelier Tuff. The regional

aquifer is estimated to be approximately 1330 ft deep based on the water level in well R-46 (LANL 2009, 105592). The topography of MDA C is relatively flat, although the slope steepens to the north where the northeast corner of MDA C abuts the south wall of Ten Site Canyon.

Vapor-phase volatile organic compounds and tritium are present in the upper 500 ft of the unsaturated zone beneath MDA C (LANL 2011, 204370). The primary vapor-phase contaminants beneath MDA C are trichloroethene and tritium. There is no evidence of groundwater contamination in the regional aquifer. MDA C is located on a mesa top above thick, unsaturated units of the Bandelier Tuff; therefore, present-day aqueous-phase transport is generally believed to be minimal.

2.0 SCOPE OF ACTIVITIES

The PME for the MDA C monitoring group was conducted pursuant to the 2015 IFGMP (LANL 2014, 256728).

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

3.0 MONITORING RESULTS

3.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with the PME are documented in the 2015 IFGMP (LANL 2014, 256728).

3.2 Field Parameter Results

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

3.3 Groundwater Elevations

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 in Figure 3.3-1. No surface-water locations are sampled for this monitoring group.

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

4.0 ANALYTICAL DATA RESULTS

4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of the PME are documented in the 2015 IFGMP (LANL 2014, 256728). 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 epr.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, 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. 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. Hardness-dependent acute and chronic criteria were used for total aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.900.

- Surface-water and groundwater perchlorate data 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 November 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. No analytes from the current PME exceeded one-half of their screening levels, so no results are shown in Appendix D.

Table 4.2-2 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. No analytes from the current PME exceeded their screening levels, so no results are shown in Table 4.2-2.

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. There were no locations where the analyte was above its screening level at least once during the three most recent PMEs, so none are 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 surface-water locations are included in this monitoring group.

4.2.2 Groundwater

No results from previous sampling of MDA C monitoring group PME monitoring locations are reported in this PMR.

No results from current PME groundwater samples reported in this PMR were above screening levels.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the MDA C 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 surface-water locations are included in this monitoring group.

5.2.2 Groundwater

No results from previous sampling of PME monitoring locations are reported in this PMR. No results from current PME groundwater samples reported in this PMR were above screening levels.

5.3 Data Gaps

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

5.4 Remediation System Monitoring

Remediation system monitoring is not applicable to the MDA C monitoring group because no systems are installed in the monitoring group area.

6.0 REFERENCES

The following list includes all documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ER ID or ESH ID. This information is also included in text citations. ER IDs were assigned by the Environmental Programs Directorate's Records Processing Facility (IDs through 599999), and ESH IDs are assigned by the Environment, Safety, and Health (ESH) Directorate (IDs 600000 and above). IDs are used to locate documents in the Laboratory's Electronic Document Management System and, where applicable, in the master reference set.

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

LANL (Los Alamos National Laboratory), September 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), March 2009. "Completion Report for Regional Aquifer Well R-46," Los Alamos National Laboratory document LA-UR-09-1338, Los Alamos, New Mexico. (LANL 2009, 105592)

LANL (Los Alamos National Laboratory), June 2011. "Phase III Investigation Report for Material Disposal Area C, Solid Waste Management Unit 50-009, at Technical Area 50," Los Alamos National Laboratory document LA-UR-11-3429, Los Alamos, New Mexico. (LANL 2011, 204370)

LANL (Los Alamos National Laboratory), May 2014. "Interim Facility-Wide Groundwater Monitoring Plan for the 2015 Monitoring Year, October 2014–September 2015," Los Alamos National Laboratory document LA-UR-14-23327, Los Alamos, New Mexico. (LANL 2014, 256728)

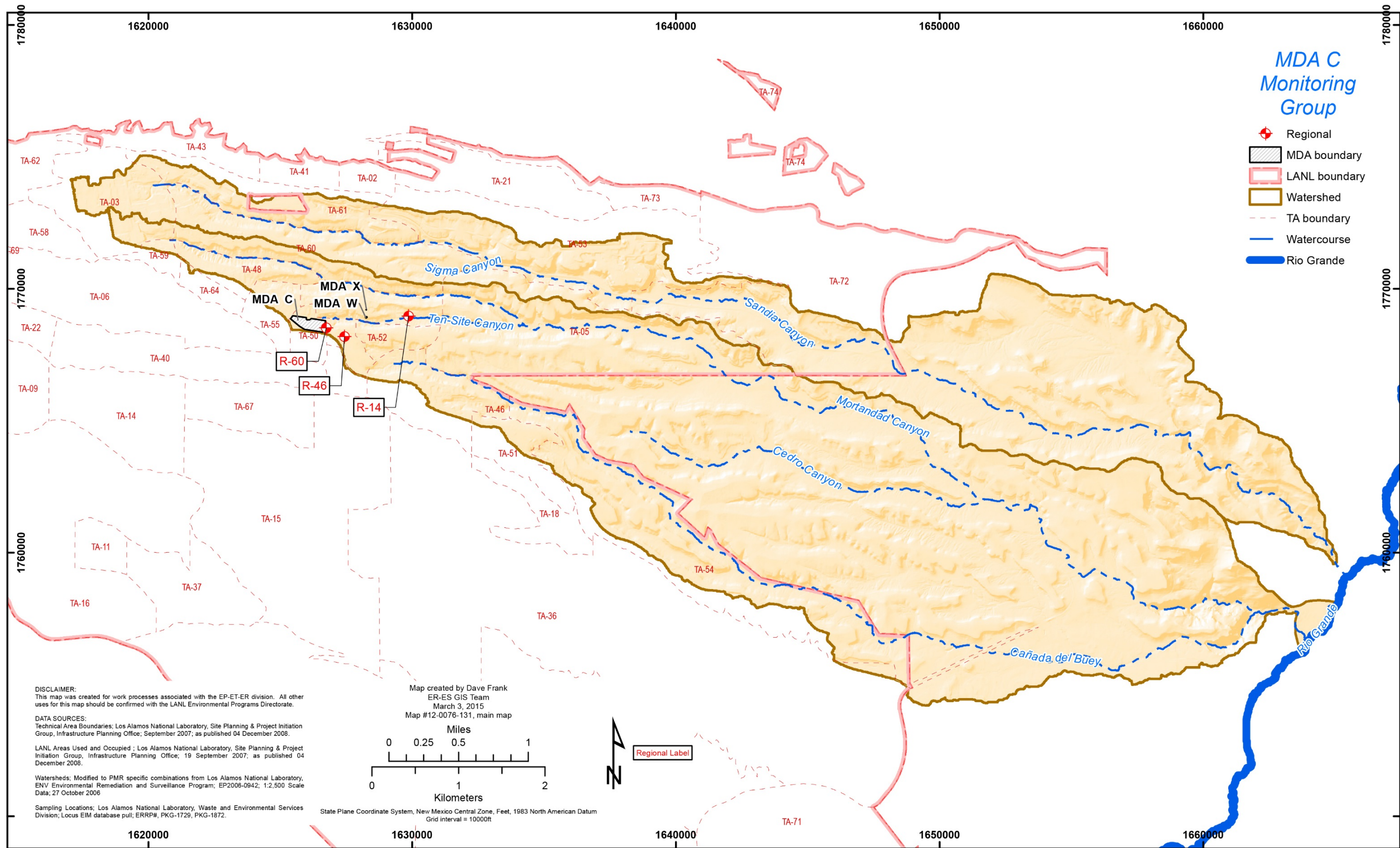


Figure 2.0-1 Locations scheduled to be monitored for this PME (see Table 3.4-1)

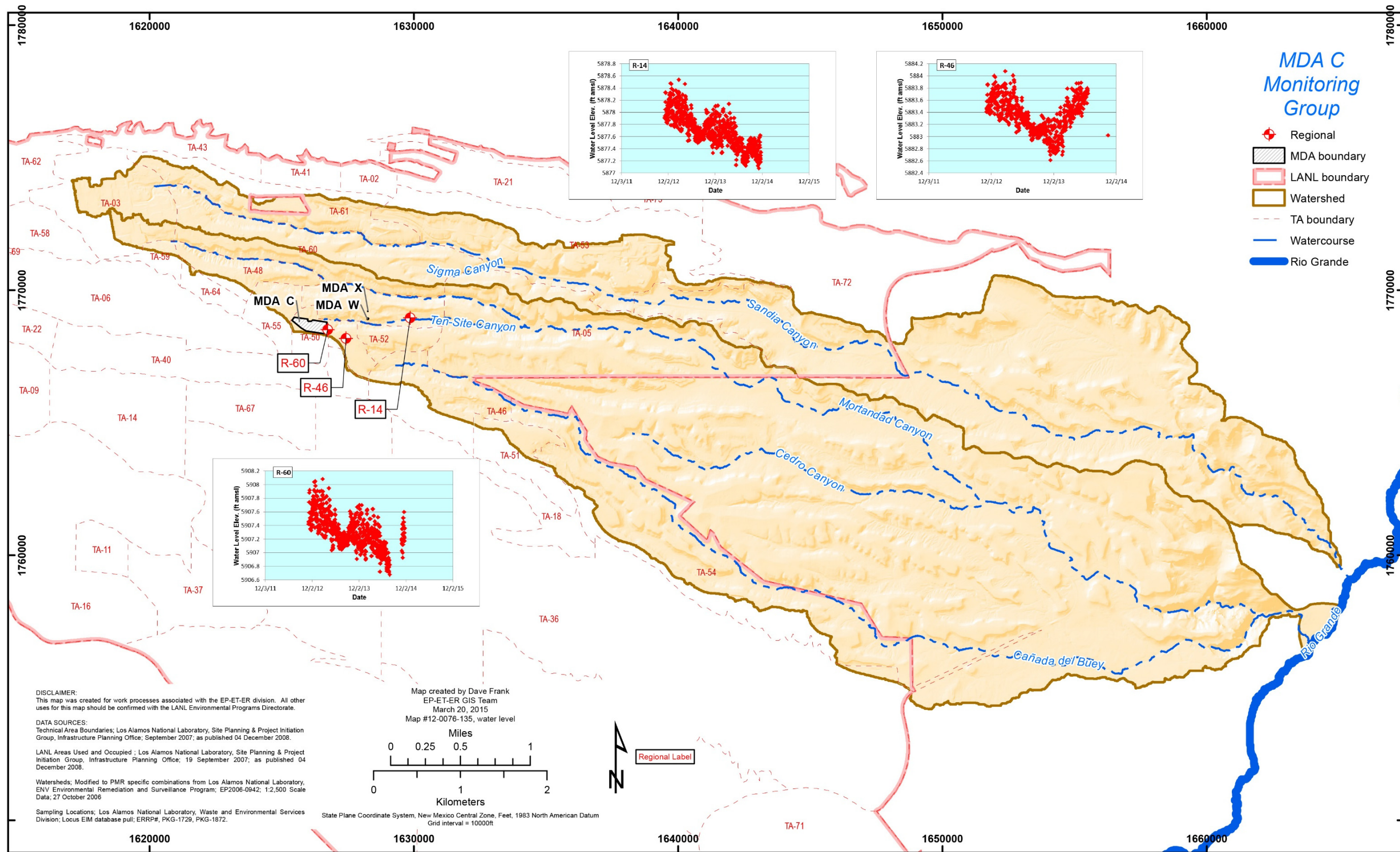


Figure 3.3-1 Groundwater elevations

**Table 2.0-1
MDA C 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*)
R-14 S1	11/12/14	32.6	1200.6	1233.2	49.59	149.6	6.3
R-46	11/12/14	20.7	1340	1360.7	53.23	165.8	4.68
R-60	11/17/14	20.9	1330	1350.9	40.68	125.4	5.7

* gpm = Gallons per minute.

**Table 3.4-1
MDA C Monitoring Group PME Observations and Deviations**

Location	Deviation	Cause	Comment
n/a*	n/a	n/a	No deviations for this PME

* n/a = Not applicable.

**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	Analytical Method	Analytical Lab
Semivolatile Organic Compounds								
92-87-5	Benzidine	4	10.3	0.0011	µg/L	EPA Regional Tap	SW-846:8270D	GELC ^c
111-44-4	Bis(2-chloroethyl)ether	0.6	5	0.14	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY ^d
91-94-1	Dichlorobenzidine[3,3'-]	3	10.3	0.28	µg/L	NM HH OO ^e	SW-846:8270D	GELC
534-52-1	Dinitro-2-methylphenol[4,6-]	1.5	25	1.5	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
118-74-1	Hexachlorobenzene	0.5	5	0.0029	µg/L	NM HH OO	SW-846:8270D	SHEALY
55-18-5	Nitrosodiethylamine[N-]	0.8	5	0.0017	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
62-75-9	Nitrosodimethylamine[N-]	0.7	5	0.0049	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
924-16-3	Nitroso-di-n-butylamine[N-]	1.4	5	0.027	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
621-64-7	Nitroso-di-n-propylamine[N-]	0.4	5	0.11	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
930-55-2	Nitrosopyrrolidine[N-]	2.1	5	0.37	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
Volatile Organic Compounds								
107-02-8	Acrolein	1.5	5	0.042	µg/L	EPA Regional Tap	SW-846:8260B	GELC
107-13-1	Acrylonitrile	1.25	5	0.52	µg/L	EPA Regional Tap	SW-846:8260B	GELC
126-99-8	Chloro-1,3-butadiene[2-]	0.25	1	0.19	µg/L	EPA Regional Tap	SW-846:8260B	GELC
96-18-4	Trichloropropane[1,2,3-]	0.3	1	0.0075	µg/L	EPA Regional Tap	SW-846:8260B	GELC

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

^a CAS = Chemical Abstracts Service.

^b PQL = Practical quantitation limit.

^c GELC = General Engineering Laboratories, Inc., Charleston, SC.

^d SHEALY = Shealy Environmental Services, Inc.

^e 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	Analytical Method	Analytical Lab
103-33-3	Azobenzene	0.7	5	1.2	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY ^c
56-55-3	Benzo(a)anthracene	0.017	0.053	0.18	µg/L	NM HH OO ^d	SW-846:8310	GELC ^e
50-32-8	Benzo(a)pyrene	0.017	0.053	0.18	µg/L	NM HH OO	SW-846:8310	GELC
205-99-2	Benzo(b)fluoranthene	0.017	0.053	0.18	µg/L	NM HH OO	SW-846:8310	GELC
53-70-3	Dibenz(a,h)anthracene	0.017	0.053	0.034	µg/L	EPA Regional Tap	SW-846:8310	GELC
96-12-8	Dibromo-3-Chloropropane[1,2-]	0.006	0.02	0.2	µg/L	EPA MCL	SW-846:8011	GELC
106-93-4	Dibromoethane[1,2-]	0.006	0.0203	0.05	µg/L	EPA MCL	SW-846:8011	GELC
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.053	0.18	µg/L	NM HH OO	SW-846:8310	GELC
126-98-7	Methacrylonitrile	1	5	1.9	µg/L	EPA Regional Tap	SW-846:8260B	SHEALY
87-86-5	Pentachlorophenol	0.09	0.27	1	µg/L	EPA MCL	SW-846:8151A	GELC

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

^a CAS = Chemical Abstracts Service.

^b PQL = Practical quantitation limit.

^c SHEALY = Shealy Environmental Services, Inc.

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

^e GELC = General Engineering Laboratories, Inc., Charleston, SC.

**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 6.2.3103	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4.900	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4.900	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4.900	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4.900	NMWQCC Aquatic Life Standards Acute	n/a	X
20 NMAC 6.4.900	NMWQCC Aquatic Life Standards Chronic	n/a	X
20 NMAC 6.4.900	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
MDA C Monitoring Group Groundwater Results above Screening Levels**

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
Regional Aquifer							
n/a*	n/a	No results above screening levels for this PME	n/a	n/a	n/a	n/a	n/a

* n/a = Not applicable.

Appendix A

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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-14 S1	1200.6	11/12/14	WG ^a	Dissolved Oxygen	5.68	mg/L	CAMO-15-90281
R-14 S1	1200.6	05/06/14	WG	Dissolved Oxygen	5.69	mg/L	CAMO-14-75543
R-14 S1	1200.6	11/05/13	WG	Dissolved Oxygen	5.64	mg/L	CAMO-14-45689
R-14 S1	1200.6	05/14/13	WG	Dissolved Oxygen	5.45	mg/L	CAMO-13-30613
R-14 S1	1200.6	11/05/12	WG	Dissolved Oxygen	5.64	mg/L	CAMO-13-24276
R-14 S1	1200.6	11/12/14	WG	Flow (in gpm ^b)	6.8	gpm	CAMO-15-90281
R-14 S1	1200.6	05/06/14	WG	Flow (in gpm)	7.3	gpm	CAMO-14-75543
R-14 S1	1200.6	11/08/11	WG	Flow (in gpm)	6.9	gpm	CAMO-12-1526
R-14 S1	1200.6	08/03/11	WG	Flow (in gpm)	6.4	gpm	CAMO-11-24652
R-14 S1	1200.6	02/22/11	WG	Flow (in gpm)	6.5	gpm	CAMO-11-4621
R-14 S1	1200.6	11/12/14	WG	Oxidation-Reduction Potential	164.5	mV	CAMO-15-90281
R-14 S1	1200.6	05/06/14	WG	Oxidation-Reduction Potential	-14.3	mV	CAMO-14-75543
R-14 S1	1200.6	11/05/13	WG	Oxidation-Reduction Potential	87.9	mV	CAMO-14-45689
R-14 S1	1200.6	05/14/13	WG	Oxidation-Reduction Potential	230.9	mV	CAMO-13-30613
R-14 S1	1200.6	11/05/12	WG	Oxidation-Reduction Potential	184.3	mV	CAMO-13-24276
R-14 S1	1200.6	11/12/14	WG	pH	8.09	SU ^c	CAMO-15-90281
R-14 S1	1200.6	05/06/14	WG	pH	8.19	SU	CAMO-14-75543
R-14 S1	1200.6	11/05/13	WG	pH	8.25	SU	CAMO-14-45689
R-14 S1	1200.6	05/14/13	WG	pH	8.13	SU	CAMO-13-30613
R-14 S1	1200.6	11/05/12	WG	pH	8.26	SU	CAMO-13-24276
R-14 S1	1200.6	11/12/14	WG	Specific Conductance	130	μS/cm	CAMO-15-90281
R-14 S1	1200.6	05/06/14	WG	Specific Conductance	134	μS/cm	CAMO-14-75543
R-14 S1	1200.6	11/05/13	WG	Specific Conductance	130	μS/cm	CAMO-14-45689
R-14 S1	1200.6	05/14/13	WG	Specific Conductance	129	μS/cm	CAMO-13-30613
R-14 S1	1200.6	11/05/12	WG	Specific Conductance	134	μS/cm	CAMO-13-24276
R-14 S1	1200.6	11/12/14	WG	Temperature	23.16	deg C	CAMO-15-90281
R-14 S1	1200.6	05/06/14	WG	Temperature	23	deg C	CAMO-14-75543
R-14 S1	1200.6	11/05/13	WG	Temperature	22.43	deg C	CAMO-14-45689
R-14 S1	1200.6	05/14/13	WG	Temperature	22.29	deg C	CAMO-13-30613

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-14 S1	1200.6	11/05/12	WG ^a	Temperature	22.09	deg C	CAMO-13-24276
R-14 S1	1200.6	11/12/14	WG	Turbidity	0.37	NTU ^d	CAMO-15-90281
R-14 S1	1200.6	05/06/14	WG	Turbidity	0.8	NTU	CAMO-14-75543
R-14 S1	1200.6	11/05/13	WG	Turbidity	0.3	NTU	CAMO-14-45689
R-14 S1	1200.6	05/14/13	WG	Turbidity	0.65	NTU	CAMO-13-30613
R-14 S1	1200.6	11/05/12	WG	Turbidity	0.51	NTU	CAMO-13-24276
R-46	1340	11/12/14	WG	Dissolved Oxygen	6.5	mg/L	CAMO-15-90283
R-46	1340	05/09/14	WG	Dissolved Oxygen	6.49	mg/L	CAMO-14-75545
R-46	1340	11/18/13	WG	Dissolved Oxygen	6.5	mg/L	CAMO-14-45691
R-46	1340	05/21/13	WG	Dissolved Oxygen	6.46	mg/L	CAMO-13-30615
R-46	1340	11/16/12	WG	Dissolved Oxygen	0.5	mg/L	CAMO-13-24278
R-46	1340	11/12/14	WG	Flow (in gpm)	4.68	gpm	CAMO-15-90283
R-46	1340	05/09/14	WG	Flow (in gpm)	4.69	gpm	CAMO-14-75545
R-46	1340	11/08/11	WG	Flow (in gpm)	4.6	gpm	CAMO-12-1530
R-46	1340	08/03/11	WG	Flow (in gpm)	4.5	gpm	CAMO-11-24656
R-46	1340	05/17/11	WG	Flow (in gpm)	4.5	gpm	CAMO-11-10733
R-46	1340	11/12/14	WG	Oxidation-Reduction Potential	158.3	mV	CAMO-15-90283
R-46	1340	05/09/14	WG	Oxidation-Reduction Potential	46.6	mV	CAMO-14-75545
R-46	1340	11/18/13	WG	Oxidation-Reduction Potential	90.4	mV	CAMO-14-45691
R-46	1340	05/21/13	WG	Oxidation-Reduction Potential	208.5	mV	CAMO-13-30615
R-46	1340	11/16/12	WG	Oxidation-Reduction Potential	176.3	mV	CAMO-13-24278
R-46	1340	11/12/14	WG	pH	7.96	SU	CAMO-15-90283
R-46	1340	05/09/14	WG	pH	7.83	SU	CAMO-14-75545
R-46	1340	11/18/13	WG	pH	8.02	SU	CAMO-14-45691
R-46	1340	05/21/13	WG	pH	7.78	SU	CAMO-13-30615
R-46	1340	11/16/12	WG	pH	8.01	SU	CAMO-13-24278
R-46	1340	11/12/14	WG	Specific Conductance	123	μS/cm	CAMO-15-90283
R-46	1340	05/09/14	WG	Specific Conductance	126	μS/cm	CAMO-14-75545
R-46	1340	11/18/13	WG	Specific Conductance	122	μS/cm	CAMO-14-45691

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-46	1340	05/21/13	WG	Specific Conductance	124	μS/cm	CAMO-13-30615
R-46	1340	11/16/12	WG	Specific Conductance	121	μS/cm	CAMO-13-24278
R-46	1340	11/12/14	WG	Temperature	20.74	deg C	CAMO-15-90283
R-46	1340	05/09/14	WG	Temperature	21.08	deg C	CAMO-14-75545
R-46	1340	11/18/13	WG	Temperature	20.34	deg C	CAMO-14-45691
R-46	1340	05/21/13	WG	Temperature	20.65	deg C	CAMO-13-30615
R-46	1340	11/16/12	WG	Temperature	18.59	deg C	CAMO-13-24278
R-46	1340	11/12/14	WG	Turbidity	1.33	NTU	CAMO-15-90283
R-46	1340	05/09/14	WG	Turbidity	0.65	NTU	CAMO-14-75545
R-46	1340	11/18/13	WG	Turbidity	0	NTU	CAMO-14-45691
R-46	1340	05/21/13	WG	Turbidity	1.08	NTU	CAMO-13-30615
R-46	1340	11/16/12	WG	Turbidity	0.5	NTU	CAMO-13-24278
R-60	1330	11/17/14	WG	Dissolved Oxygen	5.9	mg/L	CAMO-15-90284
R-60	1330	05/12/14	WG	Dissolved Oxygen	5.79	mg/L	CAMO-14-75546
R-60	1330	11/14/13	WG	Dissolved Oxygen	5.55	mg/L	CAMO-14-45692
R-60	1330	05/07/13	WG	Dissolved Oxygen	5.78	mg/L	CAMO-13-30616
R-60	1330	11/01/12	WG	Dissolved Oxygen	5.85	mg/L	CAMO-13-24279
R-60	1330	11/17/14	WG	Flow (in gpm)	5.7	gpm	CAMO-15-90284
R-60	1330	05/12/14	WG	Flow (in gpm)	1.27	gpm	CAMO-14-75546
R-60	1330	11/22/11	WG	Flow (in gpm)	1.1	gpm	CAMO-12-1522
R-60	1330	07/26/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-14772
R-60	1330	07/26/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-14773
R-60	1330	07/26/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-14774
R-60	1330	07/26/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-14776
R-60	1330	07/26/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-23020
R-60	1330	04/27/11	WG	Flow (in gpm)	1	gpm	CAPA-11-9591
R-60	1330	11/17/14	WG	Oxidation-Reduction Potential	80.6	mV	CAMO-15-90284
R-60	1330	05/12/14	WG	Oxidation-Reduction Potential	74.9	mV	CAMO-14-75546
R-60	1330	11/14/13	WG	Oxidation-Reduction Potential	21.9	mV	CAMO-14-45692

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-60	1330	05/07/13	WG	Oxidation-Reduction Potential	192.8	mV	CAMO-13-30616
R-60	1330	11/01/12	WG	Oxidation-Reduction Potential	132.2	mV	CAMO-13-24279
R-60	1330	11/17/14	WG	pH	7.95	SU	CAMO-15-90284
R-60	1330	05/12/14	WG	pH	8.18	SU	CAMO-14-75546
R-60	1330	11/14/13	WG	pH	8.24	SU	CAMO-14-45692
R-60	1330	05/07/13	WG	pH	8.01	SU	CAMO-13-30616
R-60	1330	11/01/12	WG	pH	8.3	SU	CAMO-13-24279
R-60	1330	11/17/14	WG	Specific Conductance	125	μS/cm	CAMO-15-90284
R-60	1330	05/12/14	WG	Specific Conductance	130	μS/cm	CAMO-14-75546
R-60	1330	11/14/13	WG	Specific Conductance	126	μS/cm	CAMO-14-45692
R-60	1330	05/07/13	WG	Specific Conductance	127	μS/cm	CAMO-13-30616
R-60	1330	11/01/12	WG	Specific Conductance	116	μS/cm	CAMO-13-24279
R-60	1330	11/17/14	WG	Temperature	22.23	deg C	CAMO-15-90284
R-60	1330	05/12/14	WG	Temperature	23.21	deg C	CAMO-14-75546
R-60	1330	11/14/13	WG	Temperature	23.64	deg C	CAMO-14-45692
R-60	1330	05/07/13	WG	Temperature	24.32	deg C	CAMO-13-30616
R-60	1330	11/01/12	WG	Temperature	23.72	deg C	CAMO-13-24279
R-60	1330	11/17/14	WG	Turbidity	6.63	NTU	CAMO-15-90284
R-60	1330	05/12/14	WG	Turbidity	3.4	NTU	CAMO-14-75546
R-60	1330	11/14/13	WG	Turbidity	1.18	NTU	CAMO-14-45692
R-60	1330	05/07/13	WG	Turbidity	1.09	NTU	CAMO-13-30616
R-60	1330	11/01/12	WG	Turbidity	1.49	NTU	CAMO-13-24279

^a WG = Groundwater.

^b gpm = Gallons per minute.

^c SU = Standard unit.

^d NTU = Nephelometric turbidity unit.

Appendix B

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

Appendix C

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

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

Acronyms and Abbreviations

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

MDA C 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-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.33	—	—	0.01	SU	Y	H	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.28	—	—	0.01	SU	Y	H	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.35	—	—	0.01	SU	Y	H	J-	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	J-	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.4	—	—	0.725	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60	—	—	0.725	mg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	—	—	0.725	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71	—	—	0.73	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.73	mg/L	Y	—	NQ	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.011	0.0813	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0213	0.0106	0.0313	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00559	0.00559	0.0318	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0138	0.0077	0.031	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00214	0.002	0.034	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00131	0.0028	0.038	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0549	—	—	0.017	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0341	—	—	0.017	mg/L	Y	J	J	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.7	—	—	1	µg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.5	—	—	1	µg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	32.9	—	—	1	µg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33	—	—	1	µg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	34	—	—	1	µg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.6	—	—	0.05	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11	—	—	0.05	mg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.7	—	—	0.05	mg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.17	1.46	4.26	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.17	1.39	5.16	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.29	1.46	4.65	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.475	1.2	4.6	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.91	1.4	5.3	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.84	1.7	4.9	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.76	—	—	0.067	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.66	—	—	0.067	mg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.64	—	—	0.067	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.67	—	—	0.066	mg/L	Y	—	J+	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.65	—	—	0.066	mg/L	Y	—	NQ	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.73	—	—	2	µg/L	Y	J	J	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.68	—	—	2	µg/L	Y	J	J	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.9	—	—	2	µg/L	Y	J	J	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.98	—	—	2	µg/L	Y	J	J	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.7	—	—	2.5	µg/L	Y	J	J	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.05	1.08	4.9	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.605	1.23	4.39	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.01	1.43	5.01	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0965	1.2	4.5	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC

MDA C 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-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.07	1.8	5.9	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.1	1.6	4.7	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.162	—	—	0.033	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.131	—	—	0.033	mg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.196	—	—	0.033	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.161	—	—	0.033	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.161	—	—	0.033	mg/L	Y	—	NQ	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.382	0.37	1.25	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.874	0.817	2.94	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.88	0.814	2.84	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.923	0.58	1.7	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.013	0.42	2.3	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.616	0.6	2.3	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.92	0.645	2.02	—	pCi/L	Y	—	NQ	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.71	0.786	2.42	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.5	0.776	2.49	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.66	0.85	2.3	—	pCi/L	Y	—	NQ	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.57	0.74	2.3	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.5	0.72	2.3	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.1	—	—	0.453	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.9	—	—	0.453	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.2	—	—	0.45	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.5	—	—	0.45	mg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.7	—	—	0.35	mg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.33	—	—	0.11	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.53	—	—	0.11	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.47	—	—	0.11	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.42	—	—	0.11	mg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.38	—	—	0.085	mg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.17	µg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04	—	—	0.17	µg/L	Y	—	J	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.1	µg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.343	3.1	9.83	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.11	2.79	9.42	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.08	2.92	10.1	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.8	2.3	8.8	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.53	3	9.7	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.81	3	9.4	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.335	—	—	0.017	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.318	—	—	0.017	mg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.333	—	—	0.017	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.37	—	—	0.05	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.372	—	—	0.05	mg/L	Y	—	U	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.323	—	—	0.05	µg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.323	—	—	0.05	µg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.315	—	—	0.05	µg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.321	—	—	0.05	µg/L	Y	—	NQ	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.33	—	—	0.05	µg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00288	0.00499	0.0387	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC

MDA C 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-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00536	0.01	0.0295	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0208	0.00834	0.0222	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00245	0.0043	0.028	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00376	0.0033	0.025	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00447	0.0063	0.03	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00864	0.00956	0.057	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00803	0.00888	0.0469	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00694	0.00834	0.0369	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00736	0.0055	0.039	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00376	0.0046	0.026	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.7E-10	0.0045	0.03	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.94	—	—	0.05	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.2	—	—	0.05	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.14	—	—	0.05	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.23	—	—	0.05	mg/L	Y	—	J	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.16	—	—	0.05	mg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.9	17.8	41.2	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.477	15.4	61.1	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-17.6	15.8	52.1	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.1	14	54	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	17.2	20	73	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.9	22	79	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	79.6	—	—	0.053	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	79.4	—	—	0.053	mg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	86.3	—	—	0.053	mg/L	Y	—	J+	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	85.9	—	—	0.053	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	83.8	—	—	0.053	mg/L	Y	—	NQ	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	N	J+	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.215	1.33	4.91	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.927	1.66	5.49	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.457	1.03	3.82	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.297	1.3	4.9	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.352	1.7	5.3	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.786	1.6	5.1	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	3.63	uS/cm	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129	—	—	1	uS/cm	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	130	—	—	1	uS/cm	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	uS/cm	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.9	—	—	1	µg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.9	—	—	1	µg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	55.1	—	—	1	µg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.8	—	—	1	µg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	54	—	—	1	µg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.303	0.127	0.491	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.218	0.142	0.472	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0232	0.119	0.44	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC

MDA C 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-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.32	0.15	0.48	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.385	0.15	0.46	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.459	0.17	0.5	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.93	—	—	0.133	mg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.8	—	—	0.133	mg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.98	—	—	0.133	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.82	—	—	0.1	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.81	—	—	0.1	mg/L	Y	—	J+	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	106	—	—	3.4	mg/L	Y	H	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	379	—	—	3.4	mg/L	N	—	R	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	2014-2393	CAMO-14-45693	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	08/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	11-3027	CAMO-11-24654	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.752	0.77	2.338	—	pCi/L	Y	U	U	2015-312	CAMO-15-90281	ARSL
R-14 S1	1201	05/06/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.29	0.63	1.97	—	pCi/L	Y	U	U	2014-3390	CAMO-14-75543	ARSL
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.443	0.648	2.229	—	pCi/L	Y	U	U	2014-2397	CAMO-14-45689	ARSL
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.376	0.797	2.738	—	pCi/L	Y	U	U	2013-292	CAMO-13-24276	ARSL
R-14 S1	1201	05/29/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.698	0.699	2.094	—	pCi/L	Y	U	U	12-1328	CAMO-12-14044	ARSL
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.728	—	—	0.067	µg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.93	—	—	0.067	µg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.807	—	—	0.067	µg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.713	—	—	0.067	µg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.952	—	—	0.05	µg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.474	0.0336	0.0473	—	pCi/L	Y	—	NQ	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.378	0.0283	0.0432	—	pCi/L	Y	—	NQ	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.477	0.0371	0.0619	—	pCi/L	Y	—	NQ	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.45	0.057	0.12	—	pCi/L	Y	—	J+	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.492	0.049	0.061	—	pCi/L	Y	—	NQ	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.534	0.052	0.061	—	pCi/L	Y	—	NQ	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00572	0.007	0.0412	—	pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	1.2E-09	0.00703	0.0249	—	pCi/L	Y	U	U	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00659	0.00659	0.0386	—	pCi/L	Y	U	U	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0174	0.015	0.062	—	pCi/L	Y	U	U	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0117	0.0072	0.037	—	pCi/L	Y	U	U	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0207	0.0079	0.037	—	pCi/L	Y	U	U	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.238	0.0239	0.0454	—	pCi/L	Y	—	NQ	2015-297	CAMO-15-90281	GELC
R-14 S1	1201	11/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.239	0.0225	0.0223	—	pCi/L	Y	—	NQ	2014-2393	CAMO-14-45689	GELC
R-14 S1	1201	11/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.025	0.042	—	pCi/L	Y	—	NQ	2013-271	CAMO-13-24276	GELC
R-14 S1	1201	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.225	0.037	0.053	—	pCi/L	Y	—	J+	12-296	CAMO-12-1526	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.254	0.03	0.042	—	pCi/L	Y	—	NQ	10-3544	CAMO-10-22854	GELC
R-14 S1	1201	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.263	0.031	0.043	—	pCi/L	Y	—	NQ	10-3544	CAMO-10-22851	GELC
R-14 S1	1201	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.95	—	—	1	µg/L	Y	—	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1201	11/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.66	—	—	1	µg/L	Y	—	NQ	2013-271	CAMO-13-24280	GELC
R-14 S1	1201	11/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.4	—	—	1	µg/L	Y	—	NQ	12-296	CAMO-12-1525	GELC
R-14 S1	1201	05/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.83	—	—	1	µg/L	Y	—	NQ	11-2454	CAMO-11-10728	GELC
R-14 S1	1201	11/12/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.7	—	—	1	µg/L	Y	—	NQ	11-507	CAMO-11-1264	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.75	—	—	0.01	SU	Y	H	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.71	—	—	0.01	SU	Y	H	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	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	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	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	2013-873	CAMO-13-30619	GELC

MDA C 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-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.78	—	—	0.01	SU	Y	H	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.3	—	—	0.725	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.8	—	—	0.725	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.4	—	—	0.725	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.8	—	—	0.725	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.1	—	—	0.725	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.6	—	—	0.725	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00374	0.00648	0.0781	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0052	0.00736	0.0339	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00233	0.00403	0.0265	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.01	0.00793	0.0285	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0118	0.0093	0.046	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	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	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0757	—	—	0.017	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0285	—	—	0.017	mg/L	Y	J	J	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.139	—	—	0.017	mg/L	Y	—	J-	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0781	—	—	0.017	mg/L	Y	—	U	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0897	—	—	0.017	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.043	—	—	0.017	mg/L	Y	J	J	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	2.47	—	—	1	µg/L	Y	J	J	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	5.18	—	—	1	µg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	N	3	—	—	1	µg/L	N	U	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	3.71	—	—	1	µg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	5.26	—	—	1	µg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	3.48	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Antimony	Sb	Y	3.35	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.3	—	—	1	µg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	97.2	—	—	1	µg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.4	—	—	1	µg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24	—	—	1	µg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.8	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	22	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10	—	—	0.05	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.46	—	—	0.05	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	53.6	—	—	0.05	mg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.89	—	—	0.05	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.7	—	—	0.05	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.01	1.2	3.92	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.25	1.43	4.9	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0834	1.39	4.88	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.53	1.19	4.83	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.4	1.6	5.6	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.17	1.3	4.1	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.067	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.84	—	—	0.067	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.76	—	—	0.067	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC

MDA C 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-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.78	—	—	0.067	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.44	—	—	2	µg/L	Y	J	J	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.32	—	—	2	µg/L	Y	J	J	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	923	—	—	2	µg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.2	—	—	2	µg/L	Y	J	J	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.86	—	—	2	µg/L	Y	J	J	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.41	—	—	2	µg/L	Y	J	J	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.5	—	—	2	µg/L	Y	J	J	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.03	1.2	4.9	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.73	1.61	5.43	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.25	1.15	4.83	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.585	0.871	3.18	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.937	0.99	4.5	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.17	1.3	4.5	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Diethylphthalate	84-66-2	Y	3.82	—	—	3.06	µg/L	Y	J	J	2015-297	CAMO-15-90283	GELC
R-46	1340	05/09/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Diethylphthalate	84-66-2	N	10.4	—	—	3.13	µg/L	Y	U	U	2014-3375	CAMO-14-75545	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Diethylphthalate	84-66-2	N	10.5	—	—	3.16	µg/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	05/21/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Diethylphthalate	84-66-2	N	10	—	—	3	µg/L	Y	U	U	2013-873	CAMO-13-30615	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Diethylphthalate	84-66-2	N	10	—	—	3	µg/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	SVOC	SW-846:8270C	Diethylphthalate	84-66-2	N	10.3	—	—	3.09	µg/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.146	—	—	0.033	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.117	—	—	0.033	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.133	—	—	0.033	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.149	—	—	0.033	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.169	—	—	0.033	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.175	—	—	0.033	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.323	0.377	1.28	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.118	0.676	2.88	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.353	0.554	2.27	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.773	0.651	2.32	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.86	0.58	1.9	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.766	0.62	2.2	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.21	0.483	1.57	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.39	0.881	2.92	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.28	0.876	2.39	—	pCi/L	Y	—	NQ	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.06	0.802	2.43	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.632	0.69	2.4	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.41	0.84	2.7	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.4	—	—	0.453	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	196	—	—	0.453	mg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.1	—	—	0.453	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.7	—	—	0.453	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.2	—	—	0.453	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.8	—	—	0.453	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.25	—	—	0.11	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	15.1	—	—	0.11	mg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.26	—	—	0.11	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.38	—	—	0.11	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.34	—	—	0.11	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC

MDA C 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-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.28	—	—	0.11	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.995	—	—	0.165	µg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.902	—	—	0.165	µg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.628	—	—	0.165	µg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.37	—	—	0.165	µg/L	Y	—	U	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.05	—	—	0.165	µg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.849	—	—	0.165	µg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.96	—	—	0.165	µg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.68	2.4	9.06	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.727	2.61	9.21	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.77	2.53	8.63	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.0659	2.13	7.74	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.15	2.7	9.7	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.748	3	10	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.52	—	—	0.5	µg/L	Y	J	J	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.672	—	—	0.5	µg/L	Y	J	J	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	24.5	—	—	0.5	µg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.863	—	—	0.5	µg/L	Y	J	J	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.838	—	—	0.5	µg/L	Y	J	J	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.804	—	—	0.5	µg/L	Y	J	J	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.766	—	—	0.5	µg/L	Y	J	J	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.362	—	—	0.017	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.548	—	—	0.017	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.366	—	—	0.017	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.314	—	—	0.017	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.37	—	—	0.017	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.37	—	—	0.017	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.328	—	—	0.05	µg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.293	—	—	0.05	µg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.326	—	—	0.05	µg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	06/01/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.339	—	—	0.05	µg/L	Y	—	NQ	12-1335	CAMO-12-17132	GELC
R-46	1340	11/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.321	—	—	0.05	µg/L	Y	—	NQ	12-296	CAMO-12-1529	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00547	0.00547	0.0366	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0145	0.0145	0.0493	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00611	0.0294	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0027	0.00468	0.0259	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00244	0.0088	0.028	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00834	0.0051	0.028	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0082	0.00723	0.054	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.029	0.0194	0.0757	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00917	0.00683	0.0488	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0054	0.0431	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00732	0.0049	0.038	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00417	0.0051	0.028	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.68	—	—	0.05	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.71	—	—	0.05	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.37	—	—	0.05	mg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.76	—	—	0.05	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.99	—	—	0.05	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.99	—	—	0.05	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.96	—	—	0.05	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC

MDA C 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-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.1	16.3	55.6	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	26.2	14.2	59.5	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-28.6	15.9	60.8	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-11.8	16.9	65.1	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.6	16	68	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.5	17	44	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.9	—	—	0.053	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.5	—	—	0.053	mg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.4	—	—	0.053	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.4	—	—	0.053	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.8	—	—	0.053	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.2	—	—	0.053	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.38	—	—	0.1	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.15	—	—	0.1	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	17.4	—	—	0.1	mg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.32	—	—	0.1	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.62	—	—	0.1	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.173	1.66	5.22	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0448	1.52	4.91	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.152	0.956	3.69	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.14	1.19	4.91	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.00551	1.1	4.4	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.644	1.4	4.6	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	3.63	uS/cm	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120	—	—	1	uS/cm	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	uS/cm	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	uS/cm	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43.7	—	—	1	µg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	40.3	—	—	1	µg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	201	—	—	1	µg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	41.4	—	—	1	µg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46	—	—	1	µg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.9	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.027	0.128	0.474	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0739	0.122	0.486	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.15	0.132	0.487	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.221	0.131	0.488	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.365	0.15	0.48	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.104	0.12	0.49	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.89	—	—	0.133	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	—	—	0.133	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.93	—	—	0.133	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.75	—	—	0.133	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.92	—	—	0.133	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.94	—	—	0.133	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC

MDA C 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-46	1340	05/09/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	103	—	—	3.4	mg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	47.1	—	—	3.4	mg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2015-297	CAMO-15-90283	GELC
R-46	1340	05/09/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-3375	CAMO-14-75545	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	05/21/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0416	—	—	0.033	mg/L	Y	J	J	2013-873	CAMO-13-30615	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	1.01	—	—	0.033	mg/L	Y	—	NQ	2013-353	CAMO-13-24271	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.712	—	—	0.33	mg/L	Y	J	J	2015-297	CAMO-15-90283	GELC
R-46	1340	05/09/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.73	—	—	0.33	mg/L	Y	—	NQ	2014-3375	CAMO-14-75545	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.35	—	—	0.33	mg/L	Y	—	NQ	2014-2507	CAMO-14-45691	GELC
R-46	1340	05/21/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.95	—	—	0.33	mg/L	Y	—	NQ	2013-873	CAMO-13-30615	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.56	—	—	0.33	mg/L	Y	—	NQ	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.57	—	—	0.33	mg/L	Y	—	NQ	2013-353	CAMO-13-24271	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.127	0.78	2.27	—	pCi/L	Y	U	U	2015-312	CAMO-15-90283	ARSL
R-46	1340	05/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	13.11	2.12	1.89	—	pCi/L	Y	—	J-	2014-3390	CAMO-14-75545	ARSL
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.245	0.624	2.103	—	pCi/L	Y	U	U	2014-2521	CAMO-14-45691	ARSL
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.669	0.724	2.477	—	pCi/L	Y	U	U	2013-361	CAMO-13-24278	ARSL
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.252	0.732	2.352	—	pCi/L	Y	U	U	2013-361	CAMO-13-24271	ARSL
R-46	1340	05/21/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	3.416	0.869	2.148	—	pCi/L	Y	—	NQ	12-1317	CAMO-12-14045	ARSL
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.475	—	—	0.067	µg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.458	—	—	0.067	µg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.04	—	—	0.067	µg/L	N	—	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.604	—	—	0.067	µg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.426	—	—	0.067	µg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.465	—	—	0.067	µg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.497	—	—	0.067	µg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.34	0.0359	0.0717	—	pCi/L	Y	—	NQ	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.461	0.0363	0.0565	—	pCi/L	Y	—	J	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.416	0.0347	0.0627	—	pCi/L	Y	—	NQ	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.311	0.0301	0.0608	—	pCi/L	Y	—	NQ	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.323	0.046	0.11	—	pCi/L	Y	—	J+	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.364	0.04	0.062	—	pCi/L	Y	—	NQ	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00865	0.0106	0.0624	—	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0138	0.00845	0.0356	—	pCi/L	Y	U	U	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00334	0.00747	0.0391	—	pCi/L	Y	U	U	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00648	0.00916	0.038	—	pCi/L	Y	U	U	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0108	0.0077	0.058	—	pCi/L	Y	U	U	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00602	0.0085	0.038	—	pCi/L	Y	U	U	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.024	0.0687	—	pCi/L	Y	—	NQ	2015-297	CAMO-15-90283	GELC
R-46	1340	11/18/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.207	0.025	0.03	—	pCi/L	Y	—	J	2014-2507	CAMO-14-45691	GELC
R-46	1340	11/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.197	0.024	0.0425	—	pCi/L	Y	—	NQ	2013-353	CAMO-13-24278	GELC
R-46	1340	11/16/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.197	0.0233	0.0413	—	pCi/L	Y	—	NQ	2013-353	CAMO-13-24271	GELC
R-46	1340	11/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.157	0.029	0.049	—	pCi/L	Y	—	J+	12-296	CAMO-12-1530	GELC
R-46	1340	07/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.146	0.022	0.043	—	pCi/L	Y	—	NQ	10-3544	CAMO-10-22890	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.59	—	—	1	µg/L	Y	—	NQ	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.45	—	—	1	µg/L	Y	—	NQ	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.97	—	—	1	µg/L	N	J	R	2014-3375	CAMO-14-75549	GELC

MDA C 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-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.87	—	—	1	µg/L	Y	—	NQ	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.81	—	—	1	µg/L	Y	—	NQ	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.5	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.99	—	—	1	µg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-46	1340	11/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	7.15	—	—	3.3	µg/L	Y	J	J	2015-297	CAMO-15-90290	GELC
R-46	1340	05/09/14	WG	F	RE	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.83	—	—	3.3	µg/L	Y	J	J	2014-3375	CAMO-14-75549	GELC
R-46	1340	05/09/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	N	U	R	2014-3375	CAMO-14-75549	GELC
R-46	1340	11/18/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2507	CAMO-14-45695	GELC
R-46	1340	05/21/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.82	—	—	3.3	µg/L	Y	J	J	2013-873	CAMO-13-30619	GELC
R-46	1340	11/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.22	—	—	3.3	µg/L	Y	J	J	2013-353	CAMO-13-24282	GELC
R-46	1340	11/16/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	15	—	—	3.3	µg/L	Y	—	NQ	2013-353	CAMO-13-24272	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.87	—	—	0.01	SU	Y	H	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	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	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	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	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.3	—	—	0.725	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.9	—	—	0.725	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.3	—	—	0.725	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4	—	—	0.725	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.725	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0186	0.0107	0.0646	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00968	0.0639	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0105	0.00742	0.0309	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0104	0.00737	0.0297	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00429	0.0052	0.039	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00762	0.01	0.014	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.035	—	—	0.017	mg/L	Y	J	J	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0358	—	—	0.017	mg/L	Y	J	J	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0223	—	—	0.017	mg/L	Y	J	U	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0569	—	—	0.017	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26	—	—	1	µg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	25.9	—	—	1	µg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.6	—	—	1	µg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	27.7	—	—	1	µg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.1	—	—	1	µg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.8	—	—	1	µg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11	—	—	0.05	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.1	—	—	0.05	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.4	—	—	0.05	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.3	—	—	0.05	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.4	—	—	0.05	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11	—	—	0.05	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.638	1.17	4.39	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.2	1.7	5.08	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.73	1.95	4.11	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.76	1.34	5.07	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC

MDA C 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-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.08	1.7	6.8	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.44	1.3	3.8	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.99	—	—	0.067	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.98	—	—	0.067	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.92	—	—	0.067	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.91	—	—	0.067	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.81	—	—	0.067	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.46	—	—	2	µg/L	Y	J	J	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.61	—	—	2	µg/L	Y	J	J	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.1	—	—	2	µg/L	Y	J	J	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.87	—	—	2	µg/L	Y	J	J	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.48	—	—	2	µg/L	Y	J	J	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.44	—	—	2	µg/L	Y	J	J	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.11	1.27	4.13	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.718	1.04	3.71	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.316	1.33	4.17	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.442	1.3	4.89	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.77	1.9	6.6	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.34	1.6	4.8	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.162	—	—	0.033	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.157	—	—	0.033	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.11	—	—	0.033	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.156	—	—	0.033	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.149	—	—	0.033	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.177	—	—	0.033	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0882	0.311	1.09	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.781	0.299	0.936	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.24	0.629	2.94	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	62.8	3.67	2.41	—	pCi/L	Y	—	NQ	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.61	1.1	2.4	—	pCi/L	Y	—	NQ	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.263	0.51	2.2	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.77	0.327	0.973	—	pCi/L	Y	—	NQ	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.4	0.4	1.21	—	pCi/L	Y	—	NQ	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.57	0.957	2.95	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	17.4	1.55	2.86	—	pCi/L	Y	—	NQ	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.77	0.75	2.3	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.76	0.71	2.4	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.2	—	—	0.453	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.5	—	—	0.453	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41	—	—	0.453	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.9	—	—	0.453	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.6	—	—	0.453	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.2	—	—	0.453	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.79	—	—	0.11	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.85	—	—	0.11	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.66	—	—	0.11	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.82	—	—	0.11	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.53	—	—	0.11	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.84	—	—	0.11	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.07	—	—	0.165	µg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC

MDA C 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-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02	—	—	0.165	µg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.917	—	—	0.165	µg/L	Y	—	U	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.3	—	—	0.165	µg/L	Y	—	U	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02	—	—	0.165	µg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.77	2.53	8.84	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.07	2.2	8.49	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.24	2.15	7.67	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.2	2.48	8.69	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.15	3.2	12	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.48	2.5	9.2	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.394	—	—	0.017	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.393	—	—	0.017	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.475	—	—	0.017	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.371	—	—	0.017	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.367	—	—	0.017	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.394	—	—	0.017	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.339	—	—	0.05	µg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.333	—	—	0.05	µg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.326	—	—	0.05	µg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.328	—	—	0.05	µg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/31/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.342	—	—	0.05	µg/L	Y	—	NQ	12-1333	CAMO-12-14049	GELC
R-60	1330	05/31/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.333	—	—	0.05	µg/L	Y	—	NQ	12-1333	CAMO-12-14040	GELC
R-60	1330	11/22/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.326	—	—	0.05	µg/L	Y	—	NQ	12-418	CAMO-12-1524	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00305	0.00807	0.0409	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00475	0.00889	0.0319	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00284	0.00852	0.0313	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0085	0.00637	0.0237	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00461	0.0033	0.028	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0067	0.031	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0061	0.00862	0.0603	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00237	0.0123	0.047	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00984	0.0498	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00637	0.00601	0.0402	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00461	0.0057	0.029	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00537	0.004	0.044	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.73	—	—	0.05	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.72	—	—	0.05	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.8	—	—	0.05	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.83	—	—	0.05	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.69	—	—	0.05	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.7	15	56.9	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	45.2	15.9	29.1	—	pCi/L	Y	UI	R	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	26.6	14.3	27.8	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29.9	16.8	61.6	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-26.6	20	74	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29	16	47	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.9	—	—	0.053	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.5	—	—	0.053	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.9	—	—	0.053	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC

MDA C 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-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75	—	—	0.053	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.5	—	—	0.053	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.77	—	—	0.1	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.89	—	—	0.1	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.97	—	—	0.1	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.98	—	—	0.1	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.96	—	—	0.1	mg/L	Y	E	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0268	1.25	4.74	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.309	1.3	4.99	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.28	1.27	4.03	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.35	1.46	4.96	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.12	1.6	5.7	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.444	1	3.5	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	3.63	uS/cm	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	110	—	—	3.63	uS/cm	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129	—	—	1	uS/cm	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	131	—	—	1	uS/cm	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129	—	—	1	uS/cm	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.2	—	—	1	µg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.3	—	—	1	µg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46.8	—	—	1	µg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.9	—	—	1	µg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.7	—	—	1	µg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.3	—	—	1	µg/L	Y	E	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.101	0.117	0.47	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.325	0.122	0.484	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0328	0.129	0.474	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.285	0.15	0.484	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0155	0.14	0.48	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.323	0.15	0.49	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.14	—	—	0.133	mg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.12	—	—	0.133	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.05	—	—	0.133	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.09	—	—	0.133	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2	—	—	0.133	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.2	—	—	0.133	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	J	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.433	—	—	0.33	mg/L	Y	J	J-	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.414	—	—	0.33	mg/L	Y	J	J-	2015-353	CAMO-15-90267	GELC
R-60	1330	05/12/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-3382	CAMO-14-75546	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.437	—	—	0.33	mg/L	Y	J	J	2014-2471	CAMO-14-45692	GELC
R-60	1330	05/07/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.467	—	—	0.33	mg/L	Y	J	J	2013-814	CAMO-13-30616	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2013-265	CAMO-13-24279	GELC

MDA C 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-60	1330	11/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.243	0.595	2.005	—	pCi/L	Y	U	U	2015-380	CAMO-15-90284	ARSL
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.463	0.582	1.936	—	pCi/L	Y	U	U	2015-380	CAMO-15-90267	ARSL
R-60	1330	05/12/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.37	0.65	2	—	pCi/L	Y	U	U	2014-3390	CAMO-14-75546	ARSL
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.113	0.62	2.101	—	pCi/L	Y	U	U	2014-2521	CAMO-14-45692	ARSL
R-60	1330	05/07/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.026	0.679	2.18	—	pCi/L	Y	U	U	2013-816	CAMO-13-30616	ARSL
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.213	0.655	2.247	—	pCi/L	Y	U	U	2013-265ARS	CAMO-13-24279	ARSL
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.509	—	—	0.067	µg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.524	—	—	0.067	µg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.572	—	—	0.067	µg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.56	—	—	0.067	µg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.524	—	—	0.067	µg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.582	—	—	0.067	µg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.584	0.0588	0.113	—	pCi/L	Y	—	NQ	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.347	0.0502	0.111	—	pCi/L	Y	—	NQ	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.351	0.0311	0.0567	—	pCi/L	Y	—	NQ	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.331	0.0349	0.0679	—	pCi/L	Y	—	NQ	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.526	0.049	0.051	—	pCi/L	Y	—	NQ	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.505	0.046	0.037	—	pCi/L	Y	—	NQ	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0272	0.0192	0.0982	—	pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.0189	0.0966	—	pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00652	0.00922	0.0327	—	pCi/L	Y	U	U	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00362	0.00627	0.0424	—	pCi/L	Y	U	U	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.012	0.0064	0.028	—	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0177	0.0071	0.023	—	pCi/L	Y	U	U	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.242	0.0381	0.108	—	pCi/L	Y	—	NQ	2015-353	CAMO-15-90284	GELC
R-60	1330	11/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.173	0.0351	0.106	—	pCi/L	Y	—	NQ	2015-353	CAMO-15-90267	GELC
R-60	1330	11/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.185	0.023	0.0293	—	pCi/L	Y	—	NQ	2014-2471	CAMO-14-45692	GELC
R-60	1330	11/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.158	0.0219	0.0461	—	pCi/L	Y	—	NQ	2013-265	CAMO-13-24279	GELC
R-60	1330	11/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.206	0.025	0.028	—	pCi/L	Y	—	NQ	12-418	CAMO-12-1522	GELC
R-60	1330	07/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.209	0.025	0.028	—	pCi/L	Y	—	NQ	11-2941	CAPA-11-23020	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.1	—	—	1	µg/L	Y	—	NQ	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.98	—	—	1	µg/L	Y	—	NQ	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.78	—	—	1	µg/L	Y	—	NQ	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.04	—	—	1	µg/L	Y	—	NQ	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.1	—	—	1	µg/L	Y	—	NQ	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.72	—	—	1	µg/L	Y	—	NQ	2013-265	CAMO-13-24283	GELC
R-60	1330	11/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.8	—	—	3.3	µg/L	Y	J	J	2015-353	CAMO-15-90291	GELC
R-60	1330	11/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.91	—	—	3.3	µg/L	Y	J	J	2015-353	CAMO-15-90269	GELC
R-60	1330	05/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-3382	CAMO-14-75550	GELC
R-60	1330	11/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.38	—	—	3.3	µg/L	Y	J	J	2014-2471	CAMO-14-45696	GELC
R-60	1330	05/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-814	CAMO-13-30620	GELC
R-60	1330	11/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-265	CAMO-13-24283	GELC

Appendix D

Groundwater Results Greater Than Half of Screening Levels

There are no results for this periodic monitoring event.

Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances

There are no results for this periodic monitoring event.

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)
2015-297	Inorganic	GELC ^a	CAMO-15-90288	11/12/14	R-14 S1	1200.6	1233.2
2015-297	Inorganic	GELC	CAMO-15-90290	11/12/14	R-46	1340	1360.7
2015-297	Inorganic	GELC	CAMO-15-90283	11/12/14	R-46	1340	1360.7
2015-297	Inorganic	GELC	CAMO-15-90281	11/12/14	R-14 S1	1200.6	1233.2
2015-297	Organic	GELC	CAMO-15-90281	11/12/14	R-14 S1	1200.6	1233.2
2015-297	Organic	GELC	CAMO-15-90283	11/12/14	R-46	1340	1360.7
2015-297	Rad ^b	GELC	CAMO-15-90283	11/12/14	R-46	1340	1360.7
2015-297	Rad	GELC	CAMO-15-90281	11/12/14	R-14 S1	1200.6	1233.2
2015-305	Organic	SHEALY ^c	CAMO-15-90281	11/12/14	R-14 S1	1200.6	1233.2
2015-305	Organic	SHEALY	CAMO-15-90283	11/12/14	R-46	1340	1360.7
2015-312	Rad	ARSL ^d	CAMO-15-90283	11/12/14	R-46	1340	1360.7
2015-312	Rad	ARSL	CAMO-15-90281	11/12/14	R-14 S1	1200.6	1233.2
2015-353	Inorganic	GELC	CAMO-15-90291	11/17/14	R-60	1330	1350.9
2015-353	Inorganic	GELC	CAMO-15-90267	11/17/14	R-60	1330	1350.9
2015-353	Inorganic	GELC	CAMO-15-90269	11/17/14	R-60	1330	1350.9
2015-353	Inorganic	GELC	CAMO-15-90284	11/17/14	R-60	1330	1350.9
2015-353	Organic	GELC	CAMO-15-90267	11/17/14	R-60	1330	1350.9
2015-353	Organic	GELC	CAMO-15-90284	11/17/14	R-60	1330	1350.9
2015-353	Rad	GELC	CAMO-15-90267	11/17/14	R-60	1330	1350.9
2015-353	Rad	GELC	CAMO-15-90284	11/17/14	R-60	1330	1350.9
2015-359	Organic	SHEALY	CAMO-15-90267	11/17/14	R-60	1330	1350.9
2015-359	Organic	SHEALY	CAMO-15-90284	11/17/14	R-60	1330	1350.9
2015-380	Rad	ARSL	CAMO-15-90267	11/17/14	R-60	1330	1350.9
2015-380	Rad	ARSL	CAMO-15-90284	11/17/14	R-60	1330	1350.9

^a GELC = General Engineering Laboratories, Inc., Charleston, SC.

^b Rad = Radiochemistry (not gamma).

^c SHEALY = Shealy Environmental Services, Inc.

^d ARSL = American Radiation Services, Inc.

