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Mr. John E. Kieling
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Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303



MAY 24 2019

Dear Mr. Kieling:

Subject: Submittal of the Annual Periodic Monitoring Reports for the Chromium Investigation, Technical Area 54, and Material Disposal Area C Monitoring Groups

Enclosed please find two hard copies with electronic files of the “Annual Periodic Monitoring Report for the Chromium Investigation Monitoring Group, Mortandad Canyon and Sandia Canyon Watersheds,” the “Annual Periodic Monitoring Report for the Technical Area 54 Monitoring Group, Pajarito Canyon and Mortandad Canyon Watersheds,” and the “Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed.” The reports include results from the sampling campaign performed through the first quarter of monitoring year 2019.

These reports are submitted in accordance with Appendix E, Section IV, of the June 2016 Compliance Order on Consent, as modified on February 27, 2017.

If you have any questions, please contact Steve Veenis at (505) 309-1362 (steve.veenis@em-la.doe.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,

Arturo Q. Duran
Compliance and Permitting Manager
Environmental Management
Los Alamos Field Office

Enclosures: Two hard copies with electronic files -

1. Annual Periodic Monitoring Report for the Chromium Investigation Monitoring Group, Mortandad Canyon and Sandia Canyon Watersheds (EM2019-0098)
2. Annual Periodic Monitoring Report for the Technical Area 54 Monitoring Group, Pajarito Canyon and Mortandad Canyon Watersheds (EM2019-0154)
3. Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed (EM2019-0155)

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EM-LA-40AD-00456

May 2019
EM2019-0155

Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed

Newport News Nuclear BWXT-Los Alamos, LLC (N3B), under the U.S. Department of Energy Office of Environmental Management Contract No. 89303318CEM000007 (the Los Alamos Legacy Cleanup Contract), has prepared this document pursuant to the Compliance Order on Consent, signed June 24, 2016. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory. 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.

Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed

May 2019

Responsible program director:

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Printed Name	Signature	Title	Organization	Date

Responsible N3B representative:

Erich Evered		Program Manager	N3B Environmental Remediation Program	5/22/2019
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Arturo Q. Duran		Compliance and Permitting Manager	Office of Quality and Regulatory Compliance	5-23-2019
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EXECUTIVE SUMMARY

This annual periodic monitoring report (PMR) presents results for the Material Disposal Area (MDA) C monitoring group of the Newport News Nuclear BWXT-Los Alamos, LLC, groundwater monitoring program that have not been previously reported. All monitoring work reported in this PMR was conducted pursuant to the “Interim Facility-Wide Groundwater Monitoring Plan for the 2019 Monitoring Year, October 2018–September 2019,” prepared in accordance with the Compliance Order on Consent.

All active monitoring locations in the MDA C monitoring group are located within the Mortandad Canyon watershed. The MDA C monitoring group includes the monitoring of groundwater well or well screen locations; there are no surface-water monitoring locations in this monitoring group.

This PMR presents monitoring results for one periodic monitoring event (PME) conducted during the first quarter of monitoring year 2019. In addition to results from the current PME, results are reported for the previous four PMEs, as well as earlier MDA C monitoring group PMEs that have not yet been reported because the validated laboratory data were not available at the time of the previous PMR’s publication.

Groundwater samples collected during the PME were analyzed for general inorganic chemicals, including perchlorate; metals; radionuclides, including low-level tritium; semivolatile organic compounds; volatile organic compounds; polychlorinated biphenyls; and field parameters, including dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity.

No groundwater analytical results reported in this PMR were above applicable screening values.

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Plate

- Plate 1 Groundwater elevations

Acronyms and Abbreviations

ARSL	American Radiation Services, Inc., Port Allen, LA
Consent Order	Compliance Order on Consent
DOE	Department of Energy (U.S.)
DQO	data quality objective
EDD	electronic data deliverable
EIM	Environmental Information Management (database)
EPA	Environmental Protection Agency (U.S.)
F	filtered
GELC	General Engineering Laboratories, Inc.
gpm	gallons per minute
ID	identification
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
MY	monitoring year
N	no (best value flag code)
N3B	Newport News Nuclear BWXT-Los Alamos, LLC
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NTU	nephelometric turbidity unit(s)
PME	periodic monitoring event
PMR	periodic monitoring report
QA	quality assurance
QC	quality control
S	screen
SOP	standard operating procedure
SU	standard unit
TA	technical area
UF	unfiltered
VOC	volatile organic compound
WCSF	waste characterization strategy form
Y	yes (best value flag code)

1.0 INTRODUCTION

This annual periodic monitoring report (PMR) for the Material Disposal Area (MDA) C monitoring group provides documentation of the following groundwater periodic monitoring event (PME) conducted by Newport News Nuclear BWXT-Los Alamos, LLC (N3B):

Watershed	PME Reported in this PMR		PME Field Sampling	
	Monitoring Year	Quarter	Begin	End
Mortandad	2019	1	11/09/18	11/13/18

The annual MDA C monitoring group PMR is submitted to the New Mexico Environment Department (NMED) every May. This PMR includes results from MDA C monitoring group PMEs performed through the first quarter of the 2019 monitoring year. In addition to results from the PME listed in the table above, results are reported for the previous four PMEs, as well as earlier MDA C monitoring group PMEs that have not yet been reported because the validated laboratory data were not available at the time of the previous PMR's publication.

The PME reported in this PMR included sampling of groundwater wells pursuant to the "Interim Facility-Wide Groundwater Monitoring Plan for the 2019 Monitoring Year, October 2018–September 2019" (2019 IFGMP) (N3B 2018, 700000), which was prepared in accordance with the Compliance Order on Consent (the Consent Order).

Section IX of the Consent Order describes the role of data screening in the corrective action process. Screening values are used to identify the *potential* for unacceptable risk resulting from the presence of contaminants in groundwater and surface water. New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), EPA regional screening levels for tap water, and NMED screening levels for tap water are used to establish a set of screening values for evaluating IFGMP monitoring data. Additional risk evaluation is required to determine the potential need for cleanup (corrective action) if results indicate that contaminants are present at concentrations above screening values.

This report presents the following information:

- general background information for the MDA C monitoring group
- field-measurement monitoring results
- water-quality monitoring results
- screening analysis results
- a summary of the monitoring data and the results of screening analysis

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

1.1 Background

MDA C (Solid Waste Management Unit 50-009) 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 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 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 1332 ft below ground surface 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 (VOCs) 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

All active monitoring locations in the MDA C monitoring group are located within the Mortandad Canyon watershed. Monitoring locations include three groundwater wells completed within the deep regional aquifer.

Analysis of groundwater samples collected during the PME, which was conducted pursuant to the 2019 IFGMP, included general inorganic chemicals, including perchlorate; metals; radionuclides, including low-level tritium; semivolatile organic compounds; VOCs; polychlorinated biphenyls; and field parameters, including dissolved oxygen, oxidation-reduction potential, pH, purge volume, specific conductance, temperature, and turbidity.

Purge water is managed and characterized in accordance with the relevant version of the waste characterization strategy form (WCSF) "WCSF-Interim Facility-Wide Groundwater Monitoring" (LANL 2016, 601812). Purge water is stored until characterization is complete, and if requirements are met, the purge water can be land applied in accordance with the SOP "Land Application of Groundwater" (N3B-EPC-CP-QP-010 Rev 4) and standing order "Land Application of Groundwater" (N3B-SO-ER-0003), which implements the NMED-approved decision tree for land application of drilling, development, rehabilitation, and purge water.

Table 2.0-1 provides the well location name and watershed; monitoring year and quarter of the sampling event; sample collection date; the well screened interval; top and bottom screen depths; and casing volume, purge volume, and purge or flow rate for each sampling event. Figure 2.0-1 is an MDA C monitoring group vicinity map. Monitoring locations are shown in Figure 2.0-2.

2.1 Deviations from Planned Scope

As noted in Table 2.1-1, there were no deviations from the planned scope for the PME reported in this PMR.

3.0 REGULATORY CRITERIA

Regulatory criteria related to groundwater quality form the basis for the screening values to which groundwater monitoring results are compared in this PMR. These criteria include the NMWQCC groundwater standards, EPA MCLs, NMED screening levels for tap water, and EPA regional screening levels for tap water. These criteria are used to screen results in accordance with the process specified in Section IX of the Consent Order, as listed in Table 3.0-1.

Monitoring data are evaluated using the screening process described below. The sources for standards and screening levels from which specific screening values are established are listed in Table 3.0-1.

- 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 values used for data at each monitoring location. Hardness-dependent screening values 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 recoverable aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 6.4.900 New Mexico Administrative Code (NMAC).
- Groundwater data are screened in accordance with Section IX of the Consent Order. For each individual substance, the lower of the NMWQCC groundwater standard or EPA MCL is used as the screening value.
- If the NMWQCC groundwater standard or an MCL has not been established for a specific substance for which toxicological information is published, the NMED screening level for tap water is used as the groundwater screening value. NMED screening levels are established for either a cancer- or noncancer-risk type; for the cancer-risk type, screening levels are based on a 10^{-5} excess cancer risk. This report was prepared using the 2017 NMED Risk Assessment Guidance for Site Investigations and Remediation.
- If the NMED screening level for tap water has not been established for a specific substance for which toxicological information is published, the EPA regional screening level for tap water is used as the groundwater screening value. The EPA screening levels are established for either a cancer- or noncancer-risk type. For the cancer-risk type, the Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels for tap water are at 10^{-6} excess cancer risk; therefore, 10 times the EPA 10^{-6} screening levels are used in the screening process. This report was prepared using the November 2018 EPA regional screening levels for tap water (<http://www.epa.gov/risk/risk-based-screening-table-generic-tables>).
- 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. For this report, EPA MCLs are applied to both filtered and unfiltered sample results.

4.0 MONITORING RESULTS

4.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with the data reported in this PMR are documented in the 2019 IFGMP (N3B 2018, 700000).

4.2 Comparison of Target Analytes and MDLs

Table 4.2-1 presents a list of target analytes with method detection limits (MDLs) equal to or greater than screening values. Several analytes were measured using more than one analytical method, leading to a range of MDLs. For some of these analytes, the MDL is much lower than for earlier analyses. Table 4.2-2 presents a list of analytes with MDLs below screening values. The tables apply to the results with the lowest MDL, so the analytical method and analytical laboratory are included in the tables for reference.

4.3 Field Parameter Results

Appendix A presents field parameter measurements associated with the sampling and analytical data reported in this PMR including dissolved oxygen, flow rate, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity.

4.4 Groundwater Elevations

The groundwater elevation is measured at each groundwater monitoring location before purging and sampling that location as required by the Consent Order. Section 2.1 notes any instances where this requirement could not be met.

In addition to collecting groundwater-level data before purging and sampling, N3B collects groundwater-level data “continuously” (e.g., hourly, daily) for most monitoring locations and these data are voluntarily presented in this PMR. Any gaps in the continuous groundwater-level records presented in this PMR are a result of one or more of the following conditions:

- The well is dry.
- The well is not equipped with a pressure (level) transducer.
- The water level is below the transducer.
- The transducer is not functioning properly (including failure).
- The transducer is temporarily removed from the well for maintenance and/or calibration.

Groundwater-level measurements are shown graphically on Plate 1. For wells equipped with transducers, the reported groundwater level is the first groundwater-level measurement taken on each day. Figure 4.4-1 shows groundwater surface and flow directions.

5.0 ANALYTICAL DATA RESULTS

5.1 Methods and Procedures

All methods and procedures used to perform PME analytical activities are documented in the 2019 IFGMP (N3B 2018, 700000).

Sampling, data review, and data package validation were conducted using SOPs and other documents that are part of a comprehensive quality assurance (QA) program. Procedures and other documents include the following:

- “WCSF-Interim Facility-Wide Groundwater Monitoring” (LANL 2016, 601812)
- “Groundwater Sampling” (IWD-TPMC-LA-16-049)
- “Groundwater Sampling and Sample Preservation” (N3B-ER-IWD-20088)
- “Groundwater Sampling” (N3B-TPMC-LA-16-049)
- “Groundwater Sampling Using Westbay MP System” (N3B-SOP-5225)
- “Wireless Connect/Non-connected Component Plan – Standalone Wireless System Name: Groundwater Monitoring Well Data Acquisition System” (N3B-SD-016-CP-032/L2)
- “Locus Mobile Application for Groundwater Data Collection” (N3B-ER-SOP-20324)
- “Groundwater Sampling” (N3B-ER-SOP-20032)
- “Manual Groundwater Level Measurements” (N3B-ER-SOP-20243)
- “Groundwater Level Data Processing, Review, and Validation” (N3B-ER-SOP-20231)
- “Validation of Volatile Organic Compound (VOC) Analytical Data” (ER-AP-20309)
- “Validation of Semivolatile Organic Compound Analytical Data” (ER-AP-20310)
- Validation of Metals and Cyanide Analytical Data (ER-AP-20313)
- “Validation of Gamma Spectroscopy, Chemical Separation Alpha Spectrometry, Gas Proportional Counting, and Liquid Scintillation Analytical Data” (ER-AP-20314)
- “Validation of General Chemistry Analytical Data” (N3B-ER-AP-20315)
- “Validation of LC-MS/MS Perchlorate Analytical Data” (N3B-ER-AP-20320)

Once sample collection has been planned, sample collection documents include a chain-of-custody (COC) form, which also serves as an analytical request form. Field blanks are used to monitor for contamination during sampling and are collected at a minimum frequency of 10% of all samples collected during the sampling campaign. Field blanks are assigned to locations where samples for organic constituents are collected. Field blanks are analyzed for the same suites of organic analytes for which primary samples are analyzed at the specific location to which the field blank is assigned, except for high-explosive compounds, which are not analyzed in field blanks. Field duplicates are split samples that provide information about field variation of sampling results as well as analytical laboratory variation. Field duplicates are collected at a rate of 10% of all samples collected during a sampling campaign. Field duplicates are distributed proportionally among surface water, alluvial groundwater, and intermediate/regional groundwater according to the relative number of samples collected for each type of media. Field trip blanks accompany samples collected for VOC analyses and are used to identify potential VOC contamination that may occur during sample handling, shipping, and storage or at the analytical laboratory. Field trip blanks consist of organic-free deionized water prepared by an independent off-site laboratory and are analyzed for VOCs only. A minimum of one trip blank is required for each cooler containing samples for VOC analyses. However, to facilitate data validation and verification, one trip blank may be included with each sample submitted for VOC analysis. Following sampling, the requested analytes sampled, along with the field COC, are relinquished by sampling personnel to sample management personnel. An analytical COC is then created, which includes the field sample identification

(ID) number, the date and time of field sample collection, the analytical parameters group code, and the number of bottles for each analytical parameters group.

Field collection, transportation, and analytical quality control (QC) criteria are identified in the analytical method, the external analytical laboratory statement of work, project data quality objectives (DQOs), and the Consent Order. In addition to adhering to external laboratory batch QC as defined in the method, N3B QC as defined in the statement of work and project DQOs, and QC as defined in the Consent Order, N3B submits blind field QC samples to test the sampling, shipping, and analytical laboratory processes.

N3B data validation is an important step in the data QA process and determines the quality of an analytical data set. Data validation includes evaluation of laboratory and Consent Order–required QC samples such as matrix spikes, duplicates, surrogates, method blanks, laboratory control samples, as well as other sample characteristics such as holding times, which indicate the accuracy and precision of the analyses. Data validation also evaluates the blind field QC samples.

The N3B Environmental Information Management (EIM) system performs an autovalidation process on 100% of the external electronic laboratory analytical data loaded into EIM. Autovalidation follows processes described in the N3B validation procedures listed above. Following autovalidation, all analytical laboratory data in the electronic data deliverables (EDDs), as well as the qualifiers and reason codes applied during autovalidation, are reviewed by an N3B chemist to assess data usability. Before any data in a data package are available to query in EIM, the chemist reviewing the data must manually approve the data package. Once autovalidation is complete, the data and associated data analytical packages, with the QC information, are uploaded into the N3B EIM database system and this information is then made available to the public in the Intellus New Mexico database (<http://intellusnm.com/>). In addition to autovalidation and usability reviews during EDD loading, N3B reviews representativeness and comparability of analytical data to identify results for targeted review of quality criteria by an N3B chemist.

5.2 Analytical Data

The analytical laboratory reports (including COC forms and data validation forms) are provided in Appendix F (on CD included with this document).

Appendix C presents the analytical data detections for the PME reported in this PMR and from the previous four sampling events for these analytes. In addition, all data collected during the PME (i.e., data that have been independently reviewed for conformance with regulatory and N3B requirements) are reported as follows:

- All data
 - ❖ Field duplicates, reanalyses, and results from different analytical methods are reported.
 - ❖ Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered unusable but are still reported.
 - ❖ Field duplicates are reported; all other QC results are not included in the data set.
- Radionuclides
 - ❖ Constituents analyzed and reported for the gamma spectroscopy suite include cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22.
 - ❖ Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.
 - ❖ Other than the above mentioned, 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. Analytical and validation information are 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.

Appendix D presents each analytical result that is detected at a concentration greater than half the applicable screening value. Results with a best value flag of N are included in Appendix D but are not discussed in the text.

Table 5.2-1 provides groundwater analytical results by hydrogeologic zone for specific analytical suites detected above screening values. Multiple detections are included except for field duplicate exceedances. For example, if aluminum were detected above its screening value in both a primary sample and a field duplicate, only the primary sample result would be recorded. If aluminum were detected above its screening value in any primary sample, all results would be shown.

For the data reported in this PMR, no analytes exceeded their screening values at more than one sampling location, so no figures showing analyte concentrations are presented in this PMR.

Graphs in Appendix E display analyte concentration histories for monitoring group locations where the analyte was above its screening value at least once in the following expanded data set, which includes this PME in addition to data for the three most recent previous MDA C monitoring group PMEs. Appendix E may include instances where the analyte data are evaluated using a higher screening value than the screening value that was used to evaluate previously reported analyte data. For example, the current screening value of 13.8 µg/L for perchlorate (per 2016 Consent Order data screening requirements) is greater than the 2005 Consent Order perchlorate screening value of 4 µg/L, which was used to evaluate previously reported data.

If there were exceedances of the current screening value by the data reported in this PMR, the graphs depict the current analyte screening value. If there were no exceedances of current values, but at least one exceedance of the former (lower) screening value by the previously reported analytical data, the graphs depict the former lower screening value. Results with a best value flag of N are not included in Appendix E.

There were no locations where an analyte was above its screening value at least once in the expanded data set described above, so no graphs are included in Appendix E.

5.2.1 Surface Water (Base Flow)

There are no surface-water monitoring locations in the MDA C monitoring group.

5.2.2 Groundwater

No groundwater analytical results reported in this PMR were detected at concentrations above applicable screening values.

5.3 Sampling Program Modifications

No modifications to the currently planned periodic monitoring of the MDA C monitoring group are proposed at this time.

6.0 SUMMARY AND INTERPRETATIONS

6.1 Monitoring Results

Appendix A presents the field parameter measurements associated with the sampling and analysis data reported within this PMR.

6.2 Analytical Results

Appendix C presents the analytical data associated with the sampling reported within this PMR.

6.2.1 Surface Water (Base Flow)

There are no surface-water monitoring locations in the MDA C monitoring group.

6.2.2 Groundwater

No groundwater constituents analyzed during the PME associated with this PMR were detected above the applicable groundwater screening values.

6.3 Data Gaps

As noted in Table 2.1-1, there were no deviations from the planned scope for the PME reported in this PMR.

6.4 Remediation System Monitoring

Remediation system monitoring is not applicable to the MDA C monitoring group because no groundwater remediation systems are required for the MDA C area.

7.0 REFERENCES

The following reference list includes documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. This information is also included in text citations. ERIDs were assigned by Los Alamos National Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above). IDs are used to locate documents in N3B's Records Management System and in the Master Reference Set. The NMED Hazardous Waste Bureau and N3B maintain copies of the Master Reference Set. The set ensures that NMED has the references to review documents. The set is updated when new references are cited in documents.

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), August 23, 2016. "Waste Characterization Strategy Form for Groundwater Monitoring," Los Alamos National Laboratory, Los Alamos, New Mexico. (LANL 2016, 601812)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), May 2018. "Interim Facility-Wide Groundwater Monitoring Plan for the 2019 Monitoring Year, October 2018–September 2019," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2018-0004, Los Alamos, New Mexico. (N3B 2018, 700000)

NMED (New Mexico Environment Department), March 2017. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2017, 602273)

NMED (New Mexico Environment Department), March 2017. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 2, Soil Screening Guidance for Ecological Risk Assessments," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2017, 602274)

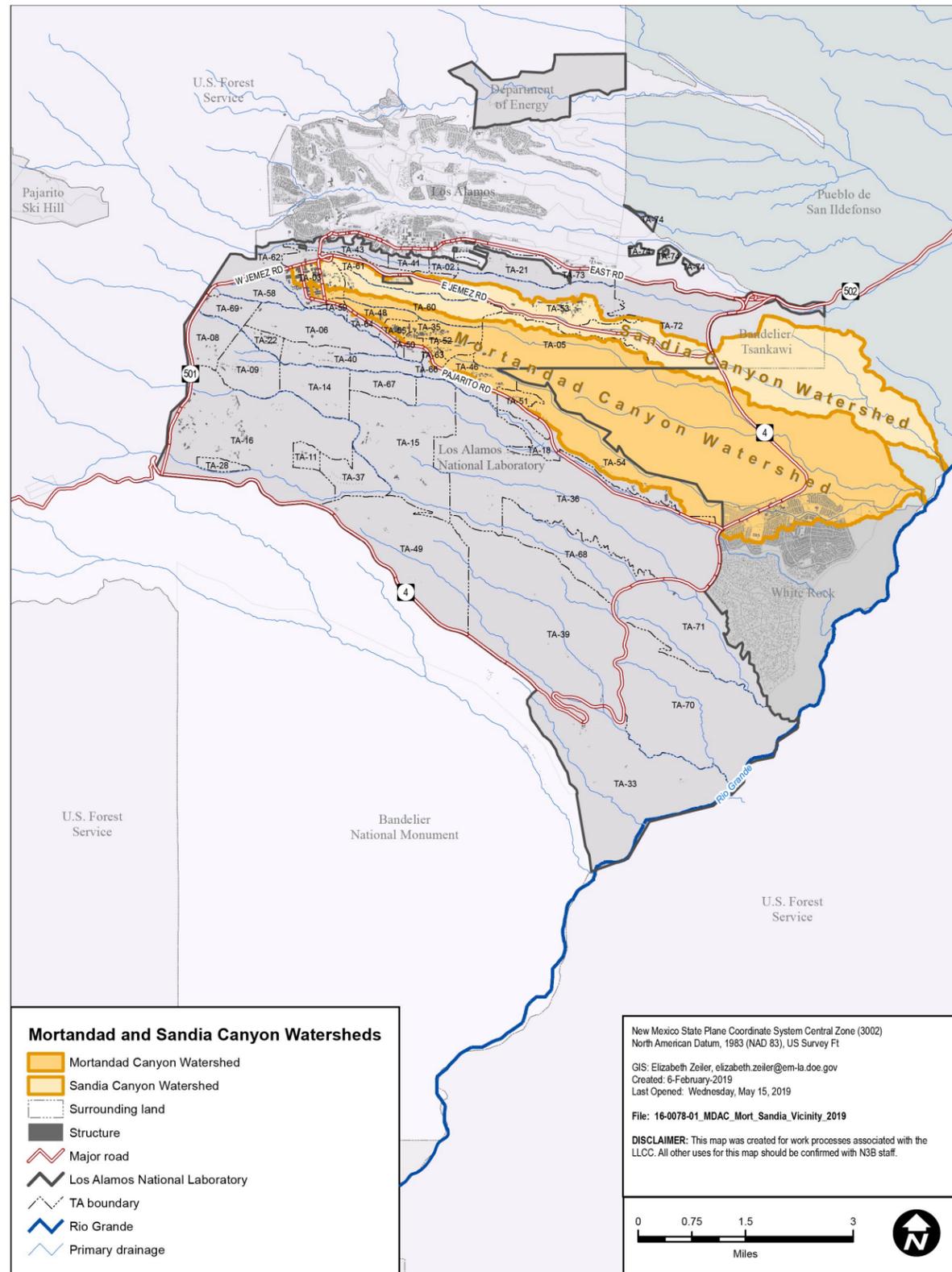


Figure 2.0-1 MDA C monitoring group vicinity map

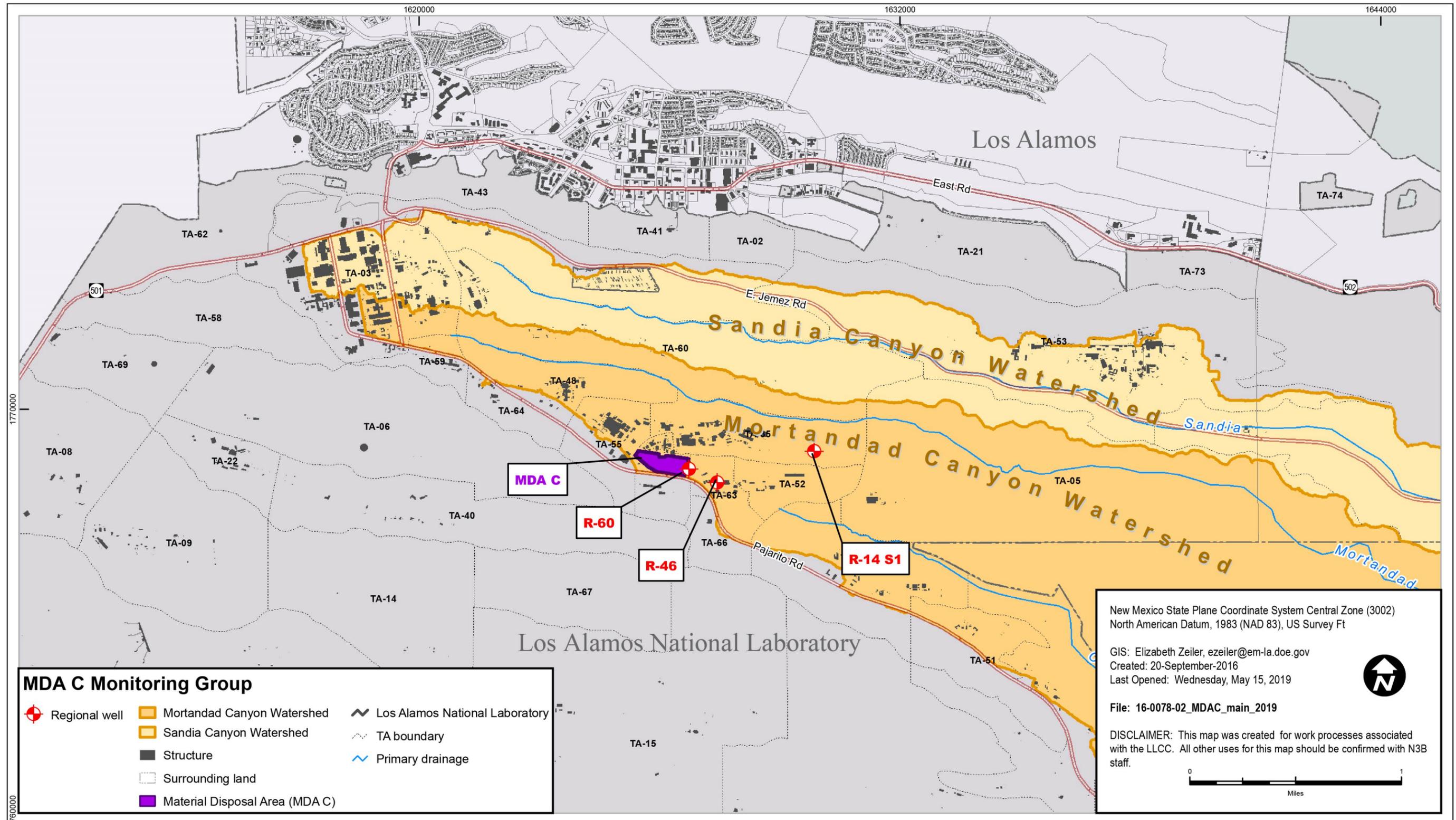


Figure 2.0-2 MDA C monitoring group well locations (see also Table 2.0-1)

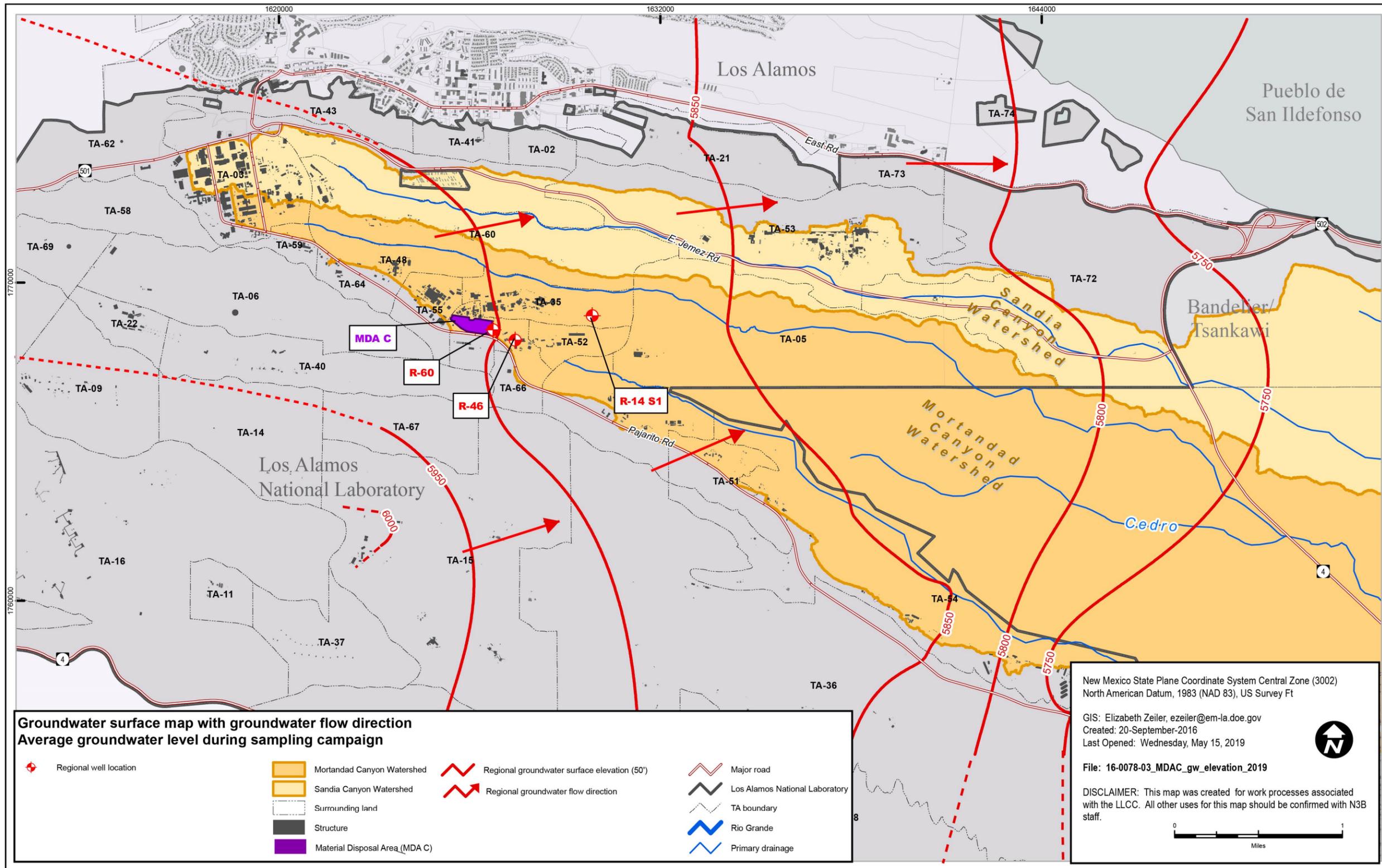


Figure 4.4-1 Groundwater surface map with groundwater flow direction

**Table 2.0-1
MDA C Monitoring Group Locations and General Information**

Location	Watershed	Sampling Event		Sample Collection Date	Screened Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge or Flow Rate (gpm ^b)
		MY ^a	Quarter							
Regional										
R-14 S1 ^c	Mortandad	2019	1	11/09/2018	32.6	1200.6	1233.2	47.77	156.0	7.14
R-46	Mortandad			11/13/2018	20.7	1340	1360.7	50.89	178.3	5
R-60	Mortandad			11/13/2018	20.9	1330	1350.9	39.08	128.3	3.61

^a MY = Monitoring year.

^b gpm = Gallons per minute.

^c S1 = Screen 1.

**Table 2.1-1
MDA C Monitoring Group PME Observations and Deviations**

Monitoring Location	Watershed	Sampling Event		Observation/Deviation	Cause	Comments
		Monitoring Year	Quarter			
n/a*	n/a	n/a	n/a	There were no deviations from the planned scope for the PME reported in this PMR.	n/a	n/a

* n/a = Not applicable.

**Table 3.0-1
Sources for Standards and Screening Levels for Groundwater
and Surface Water at Los Alamos National Laboratory**

Standard Type	Standard Source	Description	Groundwater
New Mexico			
Standard	20 NMAC 6.2.3103	Groundwater human health standards, other standards for domestic water supply and standards for irrigation use	X ^a
Screening Level	NMED	Tap water screening levels ^b	X
EPA			
Standard	40 Code of Federal Regulations 141	EPA maximum contaminant levels	X
Risk-Human	EPA generic screening levels	EPA generic screening levels for tap water ^c	X
DOE			
Standard	DOE Order 458.1	DOE 100-mrem public dose derived concentration technical standards	X
Standard	DOE Order 458.1	DOE 4-mrem drinking water derived concentration technical standards	X

^a X = Applied to data screening for this report.

^b Screening levels derived from NMED guidance (NMED 2017, 602273; NMED 2017, 602274).

^c EPA generic screening levels (<http://www.epa.gov/risk/risk-based-screening-table-generic-tables>).

**Table 4.2-1
Target Analytes with MDLs Equal to or Above Screening Values**

Analyte Name	MDL	Analytical Method	Screening Value	Unit	Screening-Value Type	Lab ID
Semivolatile Organic Compounds						
Atrazine	3–3.26	SW-846:8270D	3	µg/L	EPA MCL	GELC ^a
Azobenzene	3–3.26	SW-846:8270D	1.2	µg/L	EPA TAP SCRNLVL ^b	GELC
Benzidine	3.9–4.24	SW-846:8270D	0.00109	µg/L	NMED A1 TAP SCRNLVL ^c	GELC
Benzo(a)anthracene	0.3–0.326	SW-846:8270D	0.12	µg/L	NMED A1 TAP SCRNLVL	GELC
Benzo(a)pyrene	0.3–0.326	SW-846:8270D	0.2	µg/L	EPA MCL	GELC
Bis(2-chloroethyl)ether	3–3.26	SW-846:8270D	0.137	µg/L	NMED A1 TAP SCRNLVL	GELC
Dibenz(a,h)anthracene	0.3–0.326	SW-846:8270D	0.0343	µg/L	NMED A1 TAP SCRNLVL	GELC

Table 4.2-1 (continued)

Analyte Name	MDL	Analytical Method	Screening Value	Unit	Screening-Value Type	Lab ID
Semivolatile Organic Compounds						
Dichlorobenzidine[3,3'-]	3-3.26	SW-846:8270D	1.25	µg/L	NMED A1 TAP SCRNLVL	GELC
Dinitro-2-methylphenol[4,6-]	3-3.26	SW-846:8270D	1.52	µg/L	NMED A1 TAP SCRNLVL	GELC
Dinitrotoluene[2,4-]	3-3.26	SW-846:8270D	2.37	µg/L	NMED A1 TAP SCRNLVL	GELC
Dinitrotoluene[2,6-]	3-3.26	SW-846:8270D	0.485	µg/L	NMED A1 TAP SCRNLVL	GELC
Hexachlorobenzene	3-3.26	SW-846:8270D	1	µg/L	EPA MCL	GELC
Hexachlorobutadiene	3-3.26	SW-846:8270D	1.39	µg/L	NMED A1 TAP SCRNLVL	GELC
Nitrobenzene	3-3.26	SW-846:8270D	1.4	µg/L	NMED A1 TAP SCRNLVL	GELC
Nitrosodiethylamine[N-]	3-3.26	SW-846:8270D	0.00167	µg/L	NMED A1 TAP SCRNLVL	GELC
Nitrosodimethylamine[N-]	3-3.26	SW-846:8270D	0.00491	µg/L	NMED A1 TAP SCRNLVL	GELC
Nitroso-di-n-butylamine[N-]	3-3.26	SW-846:8270D	0.0273	µg/L	NMED A1 TAP SCRNLVL	GELC
Nitroso-di-n-propylamine[N-]	3-3.26	SW-846:8270D	0.11	µg/L	EPA TAP SCRNLVL	GELC
Nitrosopyrrolidine[N-]	3-3.26	SW-846:8270D	0.37	µg/L	NMED A1 TAP SCRNLVL	GELC
Pentachlorophenol	3-3.26	SW-846:8270D	1	µg/L	EPA MCL	GELC
Tetrachlorobenzene[1,2,4,5]	3-3.26	SW-846:8270D	1.66	µg/L	NMED A1 TAP SCRNLVL	GELC
Acrolein	1.5	SW-846:8260B	0.0415	µg/L	NMED A1 TAP SCRNLVL	GELC
Acrylonitrile	1.5	SW-846:8260B	0.523	µg/L	NMED A1 TAP SCRNLVL	GELC
Chloro-1,3-butadiene[2-]	0.3	SW-846:8260B	0.187	µg/L	NMED A1 TAP SCRNLVL	GELC
Dibromo-3-chloropropane[1,2-]	0.5	SW-846:8260B	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.3	SW-846:8260B	0.05	µg/L	EPA MCL	GELC
Dibromomethane	0.3	SW-846:8260B	0.0747	µg/L	NMED A1 TAP SCRNLVL	GELC
Trichloropropane[1,2,3-]	0.3	SW-846:8260B	0.00835	µg/L	NMED A1 TAP SCRNLVL	GELC

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

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

^b EPA TAP SCRNLVL = U.S. Environmental Protection Agency regional screening level for tap water.

^c NMED A1 TAP SCRNLVL = New Mexico Environment Department screening level for tap water.

**Table 4.2-2
Target Analytes with MDLs Below Screening Values**

Analyte Name	MDL	Analytical Method	Screening Value	Unit	Screening-Value Type	Lab ID
Volatile Organic Compounds						
Pentachlorobenzene	3-3.26	SW-846:8270D	3.07	µg/L	NMED A1 TAP SCRNLVL ^a	GELC ^b

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

^a NMED A1 TAP SCRNLVL = New Mexico Environment Department screening level for tap water.

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

**Table 5.2-1
MDA C Monitoring Group Groundwater Results Above Screening Values**

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Value	Screening-Value Type
n/a*	n/a	There are no results above screening values for data reported in this PMR.	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*

Field Measurement Record #	Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Unit	Field Sample ID
255736	R-14 S1	1200.6	11/09/2018	WG ^a	Dissolved oxygen	5.8	mg/L	CAMO-19-164050
210002	R-14 S1	1200.6	11/08/2017	WG	Dissolved oxygen	5.77	mg/L	CAMO-18-148116
205279	R-14 S1	1200.6	05/04/2017	WG	Dissolved oxygen	5.72	mg/L	CAMO-17-132223
195685	R-14 S1	1200.6	11/09/2016	WG	Dissolved oxygen	5.72	mg/L	CAMO-17-127226
190146	R-14 S1	1200.6	05/18/2016	WG	Dissolved oxygen	5.79	mg/L	CAMO-16-115250
255735	R-14 S1	1200.6	11/09/2018	WG	Flow (in gpm ^b)	7.14	gpm	CAMO-19-164050
210001	R-14 S1	1200.6	11/08/2017	WG	Flow (in gpm)	7.14	gpm	CAMO-18-148116
255684	R-14 S1	1200.6	11/09/2018	WG	Oxidation-reduction potential	167.6	mV	CAMO-19-164050
210004	R-14 S1	1200.6	11/08/2017	WG	Oxidation-reduction potential	181.4	mV	CAMO-18-148116
205281	R-14 S1	1200.6	05/04/2017	WG	Oxidation-reduction potential	187.9	mV	CAMO-17-132223
195687	R-14 S1	1200.6	11/09/2016	WG	Oxidation-reduction potential	171	mV	CAMO-17-127226
190148	R-14 S1	1200.6	05/18/2016	WG	Oxidation-reduction potential	180.5	mV	CAMO-16-115250
255686	R-14 S1	1200.6	11/09/2018	WG	pH	8.18	SU ^c	CAMO-19-164050
210011	R-14 S1	1200.6	11/08/2017	WG	pH	8.19	SU	CAMO-18-148116
205285	R-14 S1	1200.6	05/04/2017	WG	pH	8.11	SU	CAMO-17-132223
195688	R-14 S1	1200.6	11/09/2016	WG	pH	8.25	SU	CAMO-17-127226
190149	R-14 S1	1200.6	05/18/2016	WG	pH	8.24	SU	CAMO-16-115250
255688	R-14 S1	1200.6	11/09/2018	WG	Specific conductance	127.4	μS/cm	CAMO-19-164050
210007	R-14 S1	1200.6	11/08/2017	WG	Specific conductance	127	μS/cm	CAMO-18-148116
205282	R-14 S1	1200.6	05/04/2017	WG	Specific conductance	127.4	μS/cm	CAMO-17-132223
195689	R-14 S1	1200.6	11/09/2016	WG	Specific conductance	128.6	μS/cm	CAMO-17-127226
190150	R-14 S1	1200.6	05/18/2016	WG	Specific conductance	133	μS/cm	CAMO-16-115250
255738	R-14 S1	1200.6	11/09/2018	WG	Temperature	22.8	deg C	CAMO-19-164050
210008	R-14 S1	1200.6	11/08/2017	WG	Temperature	23.2	deg C	CAMO-18-148116
205283	R-14 S1	1200.6	05/04/2017	WG	Temperature	23.4	deg C	CAMO-17-132223
195690	R-14 S1	1200.6	11/09/2016	WG	Temperature	22.7	deg C	CAMO-17-127226
190151	R-14 S1	1200.6	05/18/2016	WG	Temperature	22.62	deg C	CAMO-16-115250

Field Measurement Record #	Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Unit	Field Sample ID
255740	R-14 S1	1200.6	11/09/2018	WG	Turbidity	0.67	NTU ^d	CAMO-19-164050
210010	R-14 S1	1200.6	11/08/2017	WG	Turbidity	0.22	NTU	CAMO-18-148116
205284	R-14 S1	1200.6	05/04/2017	WG	Turbidity	0.2	NTU	CAMO-17-132223
195691	R-14 S1	1200.6	11/09/2016	WG	Turbidity	0.46	NTU	CAMO-17-127226
190152	R-14 S1	1200.6	05/18/2016	WG	Turbidity	0.9	NTU	CAMO-16-115250
256239	R-46	1340.0	11/13/2018	WG	Dissolved oxygen	6.67	mg/L	CAMO-19-164053
209936	R-46	1340.0	11/07/2017	WG	Dissolved oxygen	6.72	mg/L	CAMO-18-148117
205272	R-46	1340.0	05/04/2017	WG	Dissolved oxygen	6.83	mg/L	CAMO-17-132213
195646	R-46	1340.0	11/08/2016	WG	Dissolved oxygen	6.8	mg/L	CAMO-17-127236
189801	R-46	1340.0	05/05/2016	WG	Dissolved oxygen	6.8	mg/L	CAMO-16-115261
256238	R-46	1340.0	11/13/2018	WG	Flow (in gpm)	5	gpm	CAMO-19-164053
209935	R-46	1340.0	11/07/2017	WG	Flow (in gpm)	4.84	gpm	CAMO-18-148117
256241	R-46	1340.0	11/13/2018	WG	Oxidation-reduction potential	269.8	mV	CAMO-19-164053
209938	R-46	1340.0	11/07/2017	WG	Oxidation-reduction potential	150.1	mV	CAMO-18-148117
205274	R-46	1340.0	05/04/2017	WG	Oxidation-reduction potential	206.8	mV	CAMO-17-132213
195648	R-46	1340.0	11/08/2016	WG	Oxidation-reduction potential	171.6	mV	CAMO-17-127236
189803	R-46	1340.0	05/05/2016	WG	Oxidation-reduction potential	101.9	mV	CAMO-16-115261
256200	R-46	1340.0	11/13/2018	WG	pH	7.96	SU	CAMO-19-164053
209945	R-46	1340.0	11/07/2017	WG	pH	7.99	SU	CAMO-18-148117
205278	R-46	1340.0	05/04/2017	WG	pH	7.86	SU	CAMO-17-132213
195649	R-46	1340.0	11/08/2016	WG	pH	8.01	SU	CAMO-17-127236
189804	R-46	1340.0	05/05/2016	WG	pH	8.03	SU	CAMO-16-115261
256202	R-46	1340.0	11/13/2018	WG	Specific conductance	121.4	μS/cm	CAMO-19-164053
209941	R-46	1340.0	11/07/2017	WG	Specific conductance	120.1	μS/cm	CAMO-18-148117
205275	R-46	1340.0	05/04/2017	WG	Specific conductance	120.1	μS/cm	CAMO-17-132213
195650	R-46	1340.0	11/08/2016	WG	Specific conductance	120.6	μS/cm	CAMO-17-127236
189805	R-46	1340.0	05/05/2016	WG	Specific conductance	127	μS/cm	CAMO-16-115261

Field Measurement Record #	Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Unit	Field Sample ID
256203	R-46	1340.0	11/13/2018	WG	Temperature	21.1	deg C	CAMO-19-164053
209942	R-46	1340.0	11/07/2017	WG	Temperature	20.8	deg C	CAMO-18-148117
205276	R-46	1340.0	05/04/2017	WG	Temperature	20.8	deg C	CAMO-17-132213
195651	R-46	1340.0	11/08/2016	WG	Temperature	18.3	deg C	CAMO-17-127236
189806	R-46	1340.0	05/05/2016	WG	Temperature	21.9	deg C	CAMO-16-115261
256243	R-46	1340.0	11/13/2018	WG	Turbidity	0.36	NTU	CAMO-19-164053
209944	R-46	1340.0	11/07/2017	WG	Turbidity	0.29	NTU	CAMO-18-148117
205277	R-46	1340.0	05/04/2017	WG	Turbidity	0.29	NTU	CAMO-17-132213
195652	R-46	1340.0	11/08/2016	WG	Turbidity	0.95	NTU	CAMO-17-127236
189807	R-46	1340.0	05/05/2016	WG	Turbidity	0.4	NTU	CAMO-16-115261
256304	R-60	1330.0	11/13/2018	WG	Dissolved oxygen	5.94	mg/L	CAMO-19-164058
209947	R-60	1330.0	11/07/2017	WG	Dissolved oxygen	5.97	mg/L	CAMO-18-148118
205255	R-60	1330.0	05/03/2017	WG	Dissolved oxygen	5.99	mg/L	CAMO-17-132236
195700	R-60	1330.0	11/10/2016	WG	Dissolved oxygen	6.08	mg/L	CAMO-17-127239
190129	R-60	1330.0	05/17/2016	WG	Dissolved oxygen	5.68	mg/L	CAMO-16-115264
256303	R-60	1330.0	11/13/2018	WG	Flow (in gpm)	3.61	gpm	CAMO-19-164058
209946	R-60	1330.0	11/07/2017	WG	Flow (in gpm)	2.48	gpm	CAMO-18-148118
256352	R-60	1330.0	11/13/2018	WG	Oxidation-reduction potential	237	mV	CAMO-19-164058
209949	R-60	1330.0	11/07/2017	WG	Oxidation-reduction potential	96.6	mV	CAMO-18-148118
205257	R-60	1330.0	05/03/2017	WG	Oxidation-reduction potential	85.5	mV	CAMO-17-132236
195702	R-60	1330.0	11/10/2016	WG	Oxidation-reduction potential	80.3	mV	CAMO-17-127239
190131	R-60	1330.0	05/17/2016	WG	Oxidation-reduction potential	63.4	mV	CAMO-16-115264
256354	R-60	1330.0	11/13/2018	WG	pH	8.23	SU	CAMO-19-164058
209956	R-60	1330.0	11/07/2017	WG	pH	8.17	SU	CAMO-18-148118
205261	R-60	1330.0	05/03/2017	WG	pH	8.25	SU	CAMO-17-132236
195703	R-60	1330.0	11/10/2016	WG	pH	7.94	SU	CAMO-17-127239
190132	R-60	1330.0	05/17/2016	WG	pH	8.32	SU	CAMO-16-115264

Field Measurement Record #	Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Unit	Field Sample ID
256356	R-60	1330.0	11/13/2018	WG	Specific conductance	126.4	µS/cm	CAMO-19-164058
209952	R-60	1330.0	11/07/2017	WG	Specific conductance	124.4	µS/cm	CAMO-18-148118
205258	R-60	1330.0	05/03/2017	WG	Specific conductance	126.5	µS/cm	CAMO-17-132236
195704	R-60	1330.0	11/10/2016	WG	Specific conductance	126.3	µS/cm	CAMO-17-127239
190133	R-60	1330.0	05/17/2016	WG	Specific conductance	161	µS/cm	CAMO-16-115264
256357	R-60	1330.0	11/13/2018	WG	Temperature	22.6	deg C	CAMO-19-164058
209953	R-60	1330.0	11/07/2017	WG	Temperature	23.1	deg C	CAMO-18-148118
205259	R-60	1330.0	05/03/2017	WG	Temperature	24	deg C	CAMO-17-132236
195705	R-60	1330.0	11/10/2016	WG	Temperature	20.9	deg C	CAMO-17-127239
190134	R-60	1330.0	05/17/2016	WG	Temperature	23.61	deg C	CAMO-16-115264
256306	R-60	1330.0	11/13/2018	WG	Turbidity	2.09	NTU	CAMO-19-164058
209955	R-60	1330.0	11/07/2017	WG	Turbidity	0.99	NTU	CAMO-18-148118
205260	R-60	1330.0	05/03/2017	WG	Turbidity	2.79	NTU	CAMO-17-132236
195706	R-60	1330.0	11/10/2016	WG	Turbidity	4	NTU	CAMO-17-127239
190135	R-60	1330.0	05/17/2016	WG	Turbidity	2.1	NTU	CAMO-16-115264

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Miscellaneous (continued)	
TCDD	tetrachlorodibenzo-p-dioxin
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

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Field QC Type Codes (continued)	
PEB	performance evaluation blank
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

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Lab Codes (continued)	
GELC	General Engineering Laboratories, Inc., Charleston, SC (used in Environmental Information Management data base)
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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.34					0.01	SU	Y	H	NQ	N3B-2019-437	CAMO-19-164050	GELC	
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.29					0.01	SU	Y	H	NQ	2018-828	CAMO-18-148113	GELC	
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18					0.01	SU	Y	H	NQ	2017-433	CAMO-17-127246	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.03					0.01	SU	Y	H	NQ	2016-381	CAMO-16-106119	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07					0.01	SU	Y	H	NQ	2016-381	CAMO-16-106072	GELC	
R-14 S1	1200.6	11/12/2014	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	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62			72.9	mg/L	1.45	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC	
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.9			72.9	mg/L	1.45	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC	
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.8			72.9	mg/L	1.45	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.4			72.9	mg/L	0.725	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.9			72.9	mg/L	0.725	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC	
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.4			72.9	mg/L	0.725	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC	
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00591	0.00935			pCi/L	0.0706		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00447	0.00774			pCi/L	0.0398		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00908	0.00908			pCi/L	0.0754		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0167	0.00725			pCi/L	0.0282		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00396	0.00485			pCi/L	0.0267		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.011			pCi/L	0.0813		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.77			10	µg/L	2	µg/L	Y	J	J	N3B-2019-437	CAMO-19-164050	GELC	
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	2			10	µg/L	2	µg/L	Y	U	U	2018-828	CAMO-18-148113	GELC	
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.98			10	µg/L	1.7	µg/L	Y	J	J	2017-433	CAMO-17-127246	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	3.5			10	µg/L	1.7	µg/L	Y	J	U	2016-381	CAMO-16-106072	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	2.13			10	µg/L	1.7	µg/L	Y	J	U	2016-381	CAMO-16-106119	GELC	
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5			10	µg/L	1.7	µg/L	Y	U	U	2015-297	CAMO-15-90288	GELC	
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.5			1000	µg/L	1	µg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC	
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.1			1000	µg/L	1	µg/L	Y		NQ	2018-828	CAMO-18-148113	GELC	
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.9			1000	µg/L	1	µg/L	Y		NQ	2017-433	CAMO-17-127246	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.6			1000	µg/L	1	µg/L	Y		NQ	2016-381	CAMO-16-106072	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	25.7			1000	µg/L	1	µg/L	Y		NQ	2016-381	CAMO-16-106119	GELC	
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.7			1000	µg/L	1	µg/L	Y		NQ	2015-297	CAMO-15-90288	GELC	
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.118				mg/L	0.067	mg/L	Y	J	J	N3B-2019-437	CAMO-19-164050	GELC	
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.067				mg/L	0.067	mg/L	Y	U	U	2018-828	CAMO-18-148113	GELC	
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2				mg/L	0.067	mg/L	Y	U	U	2017-433	CAMO-17-127246	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2				mg/L	0.067	mg/L	Y	U	U	2016-381	CAMO-16-106072	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2				mg/L	0.067	mg/L	Y	U	U	2016-381	CAMO-16-106119	GELC	
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2				mg/L	0.067	mg/L	Y	U	U	2015-297	CAMO-15-90288	GELC	
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.84			17.03	mg/L	0.05	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC	
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	14.2			17.03	mg/L	0.05	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC	
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2			17.03	mg/L	0.05	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2			17.03	mg/L	0.05	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.99			17.03	mg/L	0.05	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC	
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2			17.03	mg/L	0.05	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC	
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.332	0.705		2.930	pCi/L	2.54		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.671	1.22		2.930	pCi/L	4.78		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.699	2.39		2.930	pCi/L	4.81		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	5.51	2.75		2.930	pCi/L	3.9		pCi/L	Y	UI	R	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.409	1.25		2.930	pCi/L	4.45		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.17	1.46		2.930	pCi/L	4.26		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.67		250	2.7	mg/L	0.067	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC	
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.56		250	2.7	mg/L	0.067	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC	
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.63		250	2.7	mg/L	0.067	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.68		250	2.7	mg/L	0.067	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC	
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.67		250	2.7	mg/L	0.067	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC	
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.76		250	2.7	mg/L	0.067	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC	
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.67	2.35		2.65	pCi/L	3.32		pCi/L	Y	UI	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.76	1.41		2.65	pCi/L	4.78		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N														

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.05	1.08		2.65	pCi/L	4.9		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.127		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.101		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.13		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.145		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.128		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.162		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0496	0.311	15.000		pCi/L	1.41		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.01	0.84	15.000		pCi/L	2.92		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.17	0.644	15.000		pCi/L	2.09		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.105	0.755	15.000		pCi/L	2.95		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.28	0.598	15.000		pCi/L	2.32		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.382	0.37	15.000		pCi/L	1.25		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.54	0.813			pCi/L	2.5		pCi/L	Y		NQ	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.36	0.926			pCi/L	2.88		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.43	0.572			pCi/L	1.84		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.91	0.897			pCi/L	2.76		pCi/L	Y		NQ	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.87	0.954			pCi/L	2.84		pCi/L	Y		NQ	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.92	0.645			pCi/L	2.02		pCi/L	Y		NQ	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.1			67.1	mg/L		0.453	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	49.8			67.1	mg/L		0.453	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.1			67.1	mg/L		0.453	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.7			67.1	mg/L		0.453	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.5			67.1	mg/L		0.453	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.1			67.1	mg/L		0.453	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.54			4.18	mg/L		0.11	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.46			4.18	mg/L		0.11	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.29			4.18	mg/L		0.11	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.42			4.18	mg/L		0.11	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.3			4.18	mg/L		0.11	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.33			4.18	mg/L		0.11	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.15		1000	2.5	µg/L		0.2	µg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.14		1000	2.5	µg/L		0.2	µg/L	Y	U	U	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13		1000	2.5	µg/L		0.3	µg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23		1000	2.5	µg/L		0.165	µg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.25		1000	2.5	µg/L		0.165	µg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09		1000	2.5	µg/L		0.165	µg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.52	2			pCi/L	5.29		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.26	2.46			pCi/L	9.44		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.46	2.26			pCi/L	7.14		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.12	2.71			pCi/L	9.86		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.159	2.55			pCi/L	8.85		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.343	3.1			pCi/L	9.83		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.351		10	0.769	mg/L		0.017	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.379		10	0.769	mg/L		0.017	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.451		10	0.769	mg/L		0.017	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.354		10	0.769	mg/L		0.017	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.345		10	0.769	mg/L		0.017	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.335		10	0.769	mg/L		0.017	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.348		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.307		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.324		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.333		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.296		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.323		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG																			

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00768	0.0047			pCi/L	0.0224		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00288	0.00499			pCi/L	0.0387		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0221	0.0103			pCi/L	0.0526		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00275	0.00824			pCi/L	0.0579		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00284	0.00752			pCi/L	0.0498		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0000000126	0.00597			pCi/L	0.0425		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00384	0.00607			pCi/L	0.0431		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00864	0.00956			pCi/L	0.057		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.02			2.39	mg/L		0.05	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.36			2.39	mg/L		0.05	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.09			2.39	mg/L		0.05	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.97			2.39	mg/L		0.05	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.92			2.39	mg/L		0.05	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.94			2.39	mg/L		0.05	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.1	13			pCi/L	35.7		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-33.9	21			pCi/L	70.7		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.42	16.3			pCi/L	59.1		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	2.29	18.4			pCi/L	47.6		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	35	17.2			pCi/L	71		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.9	17.8			pCi/L	41.2		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80			81.9	mg/L		0.053	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.2			81.9	mg/L		0.053	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	78.9			81.9	mg/L		0.053	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.2			81.9	mg/L		0.053	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	78.4			81.9	mg/L		0.053	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	79.6			81.9	mg/L		0.053	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.3			16	mg/L		0.1	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.71			16	mg/L		0.1	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.2			16	mg/L		0.1	mg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5			16	mg/L		0.1	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.3			16	mg/L		0.1	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5			16	mg/L		0.1	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.347	0.682			pCi/L	2.61		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.698	1.55			pCi/L	6.29		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.683	1.08			pCi/L	4.03		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.14	1.18			pCi/L	4.61		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.11	1.09			pCi/L	4.4		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.215	1.33			pCi/L	4.91		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127					1		µS/cm	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	132					1		µS/cm	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128					1		µS/cm	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119					3.63		µS/cm	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119					3.63		µS/cm	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122					3.63		µS/cm	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	44.6		11800	157	µg/L		1	µg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	51.9		11800	157	µg/L		1	µg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43.3		11800	157	µg/L		1	µg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	44.1		11800	157	µg/L		1	µg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43.4		11800	157	µg/L		1	µg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.9		11800	157	µg/L		1	µg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.141	0.0747	8.0000		pCi/L	0.245		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0426	0.0845	8.0000		pCi/L	0.348		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.219	0.129	8.0000		pCi/L	0.426		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.2	0.145	8.0000		pCi/L	0.487		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0896	0.119	8.0000		pCi/L	0.482		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.30													

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78		600	4.59	mg/L		0.133	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.79		600	4.59	mg/L		0.133	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.93		600	4.59	mg/L		0.133	mg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	05/04/2017	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	4							deg C	Y		NQ	2017-1486	CAMO-17-132223	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137		1000	161	mg/L		3.4	mg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131		1000	161	mg/L		3.4	mg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107		1000	161	mg/L		3.4	mg/L	Y		J	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187		1000	161	mg/L		3.4	mg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	196		1000	161	mg/L		3.4	mg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/12/2014	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	106		1000	161	mg/L		3.4	mg/L	Y	H	NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	379		1000	161	mg/L		3.4	mg/L	N		R	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.398			1.08	mg/L		0.33	mg/L	Y	J	J	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.33			1.08	mg/L		0.33	mg/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1			1.08	mg/L		0.33	mg/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1			1.08	mg/L		0.33	mg/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1			1.08	mg/L		0.33	mg/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1			1.08	mg/L		0.33	mg/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.563	0.844	20000.000		pCi/L	2.814		pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164051	ARSL
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.714	0.999	20000.000		pCi/L	2.931		pCi/L	Y	QU	U	2018-833	CAMO-18-148116	ARSL
R-14 S1	1200.6	05/04/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.203	0.659	20000.000		pCi/L	2.074		pCi/L	Y	U	U	2017-1519	CAMO-17-132223	ARSL
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.303	0.693	20000.000		pCi/L	2.336		pCi/L	Y	U	U	2017-493	CAMO-17-127226	ARSL
R-14 S1	1200.6	05/18/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.404	0.636	20000.000		pCi/L	2.126		pCi/L	Y	U	U	2016-1238	CAMO-16-115250	ARSL
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.644		30		µg/L		0.067	µg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.668		30		µg/L		0.067	µg/L	Y		NQ	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.715		30		µg/L		0.067	µg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.736		30		µg/L		0.067	µg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.734		30		µg/L		0.067	µg/L	Y		NQ	2016-381	CAMO-16-106119	GELC
R-14 S1	1200.6	11/12/2014	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.728		30		µg/L		0.067	µg/L	Y		NQ	2015-297	CAMO-15-90288	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.613	0.0439	27.2000	0.7150	pCi/L	0.1		pCi/L	Y		NQ	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.461	0.0333	27.2000	0.7150	pCi/L	0.112		pCi/L	Y		NQ	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.519	0.038	27.2000	0.7150	pCi/L	0.116		pCi/L	Y		NQ	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.459	0.04	27.2000	0.7150	pCi/L	0.108		pCi/L	Y		NQ	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.428	0.0297	27.2000	0.7150	pCi/L	0.0632		pCi/L	Y		NQ	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.474	0.0336	27.2000	0.7150	pCi/L	0.0473		pCi/L	Y		NQ	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0256	0.011	28.800		pCi/L	0.0974		pCi/L	Y	U	U	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0391	0.0125	28.800		pCi/L	0.0486		pCi/L	Y	U	U	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0198	0.00935	28.800		pCi/L	0.0783		pCi/L	Y	U	U	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0122	0.00912	28.800		pCi/L	0.094		pCi/L	Y	U	U	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00957	0.00677	28.800		pCi/L	0.0552		pCi/L	Y	U	U	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00572	0.007	28.800		pCi/L	0.0412		pCi/L	Y	U	U	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.381	0.0344	30.0000	0.3360	pCi/L	0.0991		pCi/L	Y		NQ	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/08/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.212	0.0241	30.0000	0.3360	pCi/L	0.0658		pCi/L	Y		NQ	2018-828	CAMO-18-148116	GELC
R-14 S1	1200.6	11/09/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.267	0.0275	30.0000	0.3360	pCi/L	0.089		pCi/L	Y		NQ	2017-433	CAMO-17-127226	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.195	0.027	30.0000	0.3360	pCi/L	0.106		pCi/L	Y		NQ	2016-381	CAMO-16-106070	GELC
R-14 S1	1200.6	11/19/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.25	0.023	30.0000	0.3360	pCi/L	0.0624		pCi/L	Y		NQ	2016-381	CAMO-16-106098	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.238	0.0239	30.0000	0.3360	pCi/L	0.0454		pCi/L	Y		NQ	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.27		63.1	11.4	µg/L		1	µg/L	Y		NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/08/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.99		63.1	11.4	µg/L		1	µg/L	Y	J	J	2018-828	CAMO-18-148113	GELC
R-14 S1	1200.6	11/09/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.24		63.1	11.4	µg/L		1	µg/L	Y		NQ	2017-433	CAMO-17-127246	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.89		63.1	11.4	µg/L		1	µg/L	Y		NQ	2016-381	CAMO-16-106072	GELC
R-14 S1	1200.6	11/19/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V															

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	1.5		14100		µg/L	1.5	µg/L	Y	U	U	2018-790	CAMO-18-148117	GELC	
R-46	1340.0	05/04/2017	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10		14100		µg/L	1.5	µg/L	Y	U	U	2017-1486	CAMO-17-132233	GELC	
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10		14100		µg/L	1.5	µg/L	Y	U	U	2017-389	CAMO-17-127236	GELC	
R-46	1340.0	05/05/2016	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10		14100		µg/L	1.5	µg/L	Y	UH	UJ	2016-1157	CAMO-16-115261	GELC	
R-46	1340.0	05/05/2016	WG	UF	INIT	FD	VOC	SW-846:8260B	Acetone	67-64-1	N	10		14100		µg/L	1.5	µg/L	Y	UH	UJ	2016-1157	CAMO-16-115235	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.65					0.01	SU	Y	H	NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.72					0.01	SU	Y	H	NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	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	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94					0.01	SU	Y	H	NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96					0.01	SU	Y	H	NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	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	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.9					0.01	SU	Y	H	NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92					0.01	SU	Y	H	NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4		72.9	mg/L	1.45	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC		
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59		72.9	mg/L	1.45	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC		
R-46	1340.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.3		72.9	mg/L	1.45	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC		
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.5		72.9	mg/L	1.45	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC		
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2		72.9	mg/L	1.45	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC		
R-46	1340.0	11/08/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.8		72.9	mg/L	1.45	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC		
R-46	1340.0	05/05/2016	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.5		72.9	mg/L	0.725	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC		
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55		72.9	mg/L	0.725	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC		
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00254	0.00568			pCi/L	0.0607	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0153	0.0164			pCi/L	0.0728	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.004			pCi/L	0.0291	pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.011	0.00582			pCi/L	0.0327	pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC	
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00287	0.0144			pCi/L	0.0716	pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC	
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0115	0.0115			pCi/L	0.0518	pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC	
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00374	0.00648			pCi/L	0.0781	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	3.13		6		µg/L	1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6020	Antimony	Sb	Y	3.16		6		µg/L	1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	2.57		6		µg/L	1	µg/L	Y	J	J	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6020	Antimony	Sb	Y	2.04		6		µg/L	1	µg/L	Y	J	J	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	1.38		6		µg/L	1	µg/L	Y	J	J	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	5.06		6		µg/L	1	µg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6020	Antimony	Sb	Y	2.32		6		µg/L	1	µg/L	Y	J	J	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	2.05		6		µg/L	1	µg/L	Y	J	J	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.22		10		µg/L	2	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	2		10		µg/L	2	µg/L	Y	U	U	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	2		10		µg/L	2	µg/L	Y	U	U	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	2		10		µg/L	2	µg/L	Y	U	U	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5		10		µg/L	2	µg/L	Y	U	U	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.77		10		µg/L	1.7	µg/L	Y	J	J	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	1.93		10		µg/L	1.7	µg/L	Y	J	J	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.34		10		µg/L	1.7	µg/L	Y	J	J	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	21.6		1000	38.1	µg/L	1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.3		1000	38.1	µg/L	1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.3		1000	38.1	µg/L	1	µg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.4		1000	38.1	µg/L	1	µg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22		1000	38.1	µg/L	1	µg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.1		1000	38.1	µg/L	1	µg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	21.9		1000	38.1	µg/L	1	µg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	21.6		1000	38.1	µg/L	1	µg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	Y	14.4		75000		µg/L	6.25	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164054	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	6.32		75000		µg/L	6.32	µg/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	6.32		75000		µg/L	6.32	µg/L	Y	U	U	2018-790	CAMO-18-148117	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	6.19		75000		µg/L	6.19	µg/L	Y	U	U	2018-790	CAMO-18-148580	GELC	
R-46	1340.0	05/04/2017	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	21.3		75000		µg/L	6.38	µg/L	Y	U	UJ	2017-1486	CAMO-17-132233	GELC	
R-46	1340.0																								

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-46	1340.0	05/05/2016	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	20.6		75000		µg/L	6.19	µg/L	Y	U	UJ	2016-1157	CAMO-16-115261	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	Y	0.354		6		µg/L	0.313	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164054	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	Y	0.326		6		µg/L	0.316	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164056	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	N	3.16		6		µg/L	3.16	µg/L	Y	U	U	2018-790	CAMO-18-148117	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	N	3.09		6		µg/L	3.09	µg/L	Y	U	U	2018-790	CAMO-18-148580	GELC	
R-46	1340.0	05/04/2017	WG	UF	INIT	REG	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	N	10.6		6		µg/L	3.19	µg/L	Y	U	U	2017-1486	CAMO-17-132233	GELC	
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	N	10		6		µg/L	3	µg/L	Y	U	U	2017-389	CAMO-17-127236	GELC	
R-46	1340.0	05/05/2016	WG	UF	INIT	FD	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	N	10.3		6		µg/L	3.09	µg/L	Y	U	U	2016-1157	CAMO-16-115235	GELC	
R-46	1340.0	05/05/2016	WG	UF	INIT	REG	SVOC	SW-846:8270D	Bis(2-ethylhexyl)phthalate	117-81-7	N	10.3		6		µg/L	3.09	µg/L	Y	U	U	2016-1157	CAMO-16-115261	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.67			17.03	mg/L	0.05	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.87			17.03	mg/L	0.05	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.5			17.03	mg/L	0.05	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.1			17.03	mg/L	0.05	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.88			17.03	mg/L	0.05	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.1			17.03	mg/L	0.05	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.1			17.03	mg/L	0.05	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.91			17.03	mg/L	0.05	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.565	1.04		2.930	pCi/L	2.73	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0656	0.623		2.930	pCi/L	2.16	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.23	1.6		2.930	pCi/L	5.1	pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.55	1.44		2.930	pCi/L	4.97	pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC	
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.96	1.55		2.930	pCi/L	6.25	pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC	
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.381	1.44		2.930	pCi/L	5.47	pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC	
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.01	1.2		2.930	pCi/L	3.92	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.73		250	2.7	mg/L	0.067	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.73		250	2.7	mg/L	0.067	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.65		250	2.7	mg/L	0.067	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.66		250	2.7	mg/L	0.067	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85		250	2.7	mg/L	0.067	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.76		250	2.7	mg/L	0.067	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.7		250	2.7	mg/L	0.067	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.69		250	2.7	mg/L	0.067	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.23		50		µg/L	3	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.6		50		µg/L	3	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	6.23		50		µg/L	3	µg/L	Y	J	U	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	5.81		50		µg/L	3	µg/L	Y	J	U	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.05		50		µg/L	3	µg/L	Y	J	J	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.61		50		µg/L	3	µg/L	Y	J	J	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.52		50		µg/L	2	µg/L	Y	J	J	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.03		50		µg/L	2	µg/L	Y	J	J	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.378	0.669		2.65	pCi/L	2.55	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.00577	0.756		2.65	pCi/L	2.72	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.21	1.68		2.65	pCi/L	6.01	pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.87	1.67		2.65	pCi/L	6.83	pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC	
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.94	1.51		2.65	pCi/L	4.46	pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC	
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.962	1.38		2.65	pCi/L	5.08	pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC	
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.03	1.2		2.65	pCi/L	4.9	pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.14		1.6	0.377	mg/L	0.033	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.12		1.6	0.377	mg/L	0.033	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0962		1.6	0.377	mg/L	0.033	mg/L	Y	J	J	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0824		1.6	0.377	mg/L	0.033	mg/L	Y	J	J	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.129		1.6	0.377	mg/L	0.033	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0953		1.6	0.377	mg/L	0.033	mg/L	Y	J	J	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0894		1.6	0.377	mg/L	0.033	mg/L	Y	J	J	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0898		1.6	0.377	mg/L	0.033	mg/L	Y	J	J	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.03	0.825	15.000		pCi/L	2.83	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.1													

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.411	0.404	15.000		pCi/L	1.43		pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.374	0.774	15.000		pCi/L	2.9		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.323	0.377	15.000		pCi/L	1.28		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.39	0.721			pCi/L	2.35		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.24	0.766			pCi/L	2.37		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.86	0.62			pCi/L	1.73		pCi/L	Y		NQ	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.23	0.733			pCi/L	2.04		pCi/L	Y		NQ	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.26	0.545			pCi/L	1.68		pCi/L	Y		NQ	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.48	0.938			pCi/L	2.99		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.21	0.483			pCi/L	1.57		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.2			67.1	mg/L	0.453	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39			67.1	mg/L	0.453	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.2			67.1	mg/L	0.453	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.2			67.1	mg/L	0.453	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.7			67.1	mg/L	0.453	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.1			67.1	mg/L	0.453	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.2			67.1	mg/L	0.453	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.8			67.1	mg/L	0.453	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.42			4.18	mg/L	0.11	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.48			4.18	mg/L	0.11	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.41			4.18	mg/L	0.11	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.38			4.18	mg/L	0.11	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.17			4.18	mg/L	0.11	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.53			4.18	mg/L	0.11	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.27			4.18	mg/L	0.11	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.31			4.18	mg/L	0.11	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01		1000	2.5	µg/L	0.2	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.05		1000	2.5	µg/L	0.2	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18		1000	2.5	µg/L	0.2	µg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.06		1000	2.5	µg/L	0.2	µg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.948		1000	2.5	µg/L	0.2	µg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.28		1000	2.5	µg/L	0.3	µg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04		1000	2.5	µg/L	0.165	µg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04		1000	2.5	µg/L	0.165	µg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.674	1.38			pCi/L	4.54		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.04	1.28			pCi/L	4.67		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.65	2.92			pCi/L	8.79		pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	7.32	4.12			pCi/L	12.2		pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.95	3.09			pCi/L	10.7		pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.34	2.66			pCi/L	9.37		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.68	2.4			pCi/L	9.06		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.374		10	0.769	mg/L	0.017	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.375		10	0.769	mg/L	0.017	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.392		10	0.769	mg/L	0.017	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.315		10	0.769	mg/L	0.017	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.352		10	0.769	mg/L	0.017	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.368		10	0.769	mg/L	0.017	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.404		10	0.769	mg/L	0.085	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.405		10	0.769	mg/L	0.085	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.288		13.8	0.414	µg/L	0.05	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.352		13.8	0.414	µg/L	0.05	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.315		13.8	0.414	µg/L	0.05	µg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.333		13.8	0.414	µg/L	0.05	µg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.354		13.8	0.414	µg/L	0.05	µg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.31		13.8	0.414	µg/L	0.05	µg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.298		13.8	0.414	µg/L	0.05	µg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW																	

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0123	0.0123			pCi/L	0.0606		pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00745	0.00589			pCi/L	0.0274		pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0101	0.00713			pCi/L	0.0584		pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00229	0.00686			pCi/L	0.0267		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00547	0.00547			pCi/L	0.0366		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0155	0.0106			pCi/L	0.0392		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0493	0.0133			pCi/L	0.0553		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0205	0.0148			pCi/L	0.0866		pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00744	0.00645			pCi/L	0.0392		pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00755	0.00755			pCi/L	0.0441		pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00000000152	0.00722			pCi/L	0.0513		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0082	0.00723			pCi/L	0.054		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.85			2.39	mg/L	0.05	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.84			2.39	mg/L	0.05	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.81			2.39	mg/L	0.05	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.83			2.39	mg/L	0.05	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.84			2.39	mg/L	0.05	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.91			2.39	mg/L	0.05	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.82			2.39	mg/L	0.05	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.85			2.39	mg/L	0.05	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.61	11.5			pCi/L	19.8		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	16.4	15.9			pCi/L	24		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-32.2	21.2			pCi/L	70.8		pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-22.1	21.1			pCi/L	77.4		pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	37.9	20.7			pCi/L	45.7		pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.56	19			pCi/L	50.4		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.1	16.3			pCi/L	55.6		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.6			81.9	mg/L	0.053	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.3			81.9	mg/L	0.053	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.5			81.9	mg/L	0.053	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.9			81.9	mg/L	0.053	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.3			81.9	mg/L	0.053	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.3			81.9	mg/L	0.053	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.6			81.9	mg/L	0.053	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.5			81.9	mg/L	0.053	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.19			16	mg/L	0.1	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.26			16	mg/L	0.1	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.14			16	mg/L	0.1	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.98			16	mg/L	0.1	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.72			16	mg/L	0.1	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.95			16	mg/L	0.1	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.86			16	mg/L	0.1	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.66			16	mg/L	0.1	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.06	0.762			pCi/L	2.74		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.481	0.651			pCi/L	2.26		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.11	1.1			pCi/L	2.9		pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.04	1.81			pCi/L	6.86		pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.404	1.42			pCi/L	5.57		pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.94	1.13			pCi/L	5.25		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.173	1.66			pCi/L	5.22		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121				µS/cm	1		µS/cm	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123				µS/cm	1		µS/cm	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	131				µS/cm	1		µS/cm	Y		NQ	2018-790	CAMO-18-148114	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125				µS/cm	1		µS/cm	Y		NQ	2018-790	CAMO-18-148581	GELC
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126				µS/cm	1		µS/cm	Y		NQ	2017-1486	CAMO-17-132213	GELC
R-46	1340.0	11/08/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120				µS/cm	1		µS/cm	Y		NQ	2017-389	CAMO-17-127256	GELC
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance</																

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	41.9		11800	157	µg/L		1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	40.8		11800	157	µg/L		1	µg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	39.5		11800	157	µg/L		1	µg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43.1		11800	157	µg/L		1	µg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43.6		11800	157	µg/L		1	µg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	42.3		11800	157	µg/L		1	µg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	39.1		11800	157	µg/L		1	µg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.208	0.102	8.0000		pCi/L	0.333		pCi/L	Y	U	U	NQ	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.192	0.146	8.0000		pCi/L	0.497		pCi/L	Y	U	U	NQ	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.211	0.131	8.0000		pCi/L	0.435		pCi/L	Y	U	U	NQ	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.203	0.135	8.0000		pCi/L	0.45		pCi/L	Y	U	U	NQ	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.307	0.106	8.0000		pCi/L	0.475		pCi/L	Y	U	U	NQ	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0151	0.128	8.0000		pCi/L	0.453		pCi/L	Y	U	U	NQ	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.027	0.128	8.0000		pCi/L	0.474		pCi/L	Y	U	U	NQ	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.89		600	4.59	mg/L		0.133	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.89		600	4.59	mg/L		0.133	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.76		600	4.59	mg/L		0.133	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78		600	4.59	mg/L		0.133	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.06		600	4.59	mg/L		0.133	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.82		600	4.59	mg/L		0.133	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.84		600	4.59	mg/L		0.133	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.85		600	4.59	mg/L		0.133	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	N3B-2019-459	CAMO-19-164054	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	N3B-2019-459	CAMO-19-164056	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	2018-790	CAMO-18-148117	GELC	
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	2018-790	CAMO-18-148580	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	VOC	EPA:170.0	Temperature	TEMP	Y	2							deg C	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	4							deg C	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	05/04/2017	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	4							deg C	Y		NQ	2017-1486	CAMO-17-132233	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.87		12000		µg/L		2.5	µg/L	Y	J	J	NQ	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	N	2.5		12000		µg/L		2.5	µg/L	Y	U	U	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	2.5		12000		µg/L		2.5	µg/L	Y	U	U	NQ	2018-790	CAMO-18-148114	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	N	2.5		12000		µg/L		2.5	µg/L	Y	U	U	NQ	2018-790	CAMO-18-148581	GELC
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10		12000		µg/L		2.5	µg/L	Y	U	U	NQ	2017-1486	CAMO-17-132213	GELC
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10		12000		µg/L		2.5	µg/L	Y	U	U	NQ	2017-389	CAMO-17-127256	GELC
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10		12000		µg/L		2.5	µg/L	Y	U	U	NQ	2016-1157	CAMO-16-115284	GELC
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	N	10		12000		µg/L		2.5	µg/L	Y	U	U	NQ	2016-1157	CAMO-16-115238	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	244		1000	161	mg/L		3.4	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC	
R-46	1340.0	11/13/2018	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170		1000	161	mg/L		3.4	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	104		1000	161	mg/L		3.4	mg/L	Y		NQ	2018-790	CAMO-18-148114	GELC	
R-46	1340.0	11/07/2017	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120		1000	161	mg/L		3.4	mg/L	Y		NQ	2018-790	CAMO-18-148581	GELC	
R-46	1340.0	05/04/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114		1000	161	mg/L		3.4	mg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC	
R-46	1340.0	11/08/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129		1000	161	mg/L		3.4	mg/L	Y		NQ	2017-389	CAMO-17-127256	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114		1000	161	mg/L		3.4	mg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC	
R-46	1340.0	05/05/2016	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	61.4		1000	161	mg/L		3.4	mg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC	
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0821						0.033	mg/L	Y	J	J	NQ	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0715						0.033	mg/L	Y	J	J	NQ	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.033						0.033	mg/L	Y	U	U	NQ	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.033						0.033	mg/L	Y	U	U	NQ	2018-790	CAMO-18-148580	GELC
R-46	1340.0	05/04/2017	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1						0.033	mg/L	Y	U	U	NQ	2017-1486	CAMO-17-132233	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1						0.033	mg/L	Y	U	U	NQ	2017-389	CAMO-17-127236	GELC
R-46	1340.0	05/05/2016	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1						0.033	mg/L	Y	U	U	NQ	2016-1157	CAMO-16-115235	GELC
R-46	1340.0	05/05/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1						0.033	mg/L	Y	U	U	NQ	2016-1157	CAMO-16-115261	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.964			1.08	mg/L	</									

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.598			1.08	mg/L		0.33	mg/L	Y	J	J	2018-790	CAMO-18-148580	GELC
R-46	1340.0	05/04/2017	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.701			1.08	mg/L		0.33	mg/L	Y	J	J	2017-1486	CAMO-17-132233	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.781			1.08	mg/L		0.33	mg/L	Y	J	J	2017-389	CAMO-17-127236	GELC
R-46	1340.0	05/05/2016	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.762			1.08	mg/L		0.33	mg/L	Y	J	J	2016-1157	CAMO-16-115235	GELC
R-46	1340.0	05/05/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.705			1.08	mg/L		0.33	mg/L	Y	J	J	2016-1157	CAMO-16-115261	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.391	0.925	20000.000		pCi/L	2.744		pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164054	ARSL
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.33	0.827	20000.000		pCi/L	2.64		pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164056	ARSL
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.587	0.782	20000.000		pCi/L	2.678		pCi/L	Y	U	U	2018-835	CAMO-18-148117	ARSL
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.415	0.683	20000.000		pCi/L	2.337		pCi/L	Y	U	U	2018-835	CAMO-18-148580	ARSL
R-46	1340.0	05/04/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.684	0.76	20000.000		pCi/L	2.322		pCi/L	Y	U	U	2017-1519	CAMO-17-132233	ARSL
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.629	0.596	20000.000		pCi/L	1.972		pCi/L	Y	U	U	2017-400	CAMO-17-127236	ARSL
R-46	1340.0	05/05/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.158	0.636	20000.000		pCi/L	2.156		pCi/L	Y	U	U	2016-1200	CAMO-16-115261	ARSL
R-46	1340.0	05/05/2016	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.006	0.597	20000.000		pCi/L	1.895		pCi/L	Y	U	U	2016-1200	CAMO-16-115235	ARSL
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.448			30	µg/L	0.067		µg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.454			30	µg/L	0.067		µg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.466			30	µg/L	0.067		µg/L	Y		NQ	2018-790	CAMO-18-148114	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.456			30	µg/L	0.067		µg/L	Y		NQ	2018-790	CAMO-18-148581	GELC
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.543			30	µg/L	0.067		µg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.513			30	µg/L	0.067		µg/L	Y		NQ	2017-389	CAMO-17-127256	GELC
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.489			30	µg/L	0.067		µg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.5			30	µg/L	0.067		µg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.366	0.0359	27.2000	0.7150	pCi/L	0.104		pCi/L	Y		NQ	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.391	0.0341	27.2000	0.7150	pCi/L	0.0949		pCi/L	Y		NQ	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.462	0.037	27.2000	0.7150	pCi/L	0.132		pCi/L	Y		NQ	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.407	0.0325	27.2000	0.7150	pCi/L	0.122		pCi/L	Y		NQ	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.344	0.0322	27.2000	0.7150	pCi/L	0.121		pCi/L	Y		J	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.343	0.0314	27.2000	0.7150	pCi/L	0.08		pCi/L	Y		NQ	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.34	0.0359	27.2000	0.7150	pCi/L	0.0717		pCi/L	Y		NQ	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0188	0.0113	28.800		pCi/L	0.1		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0242	0.0124	28.800		pCi/L	0.092		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0525	0.018	28.800		pCi/L	0.0571		pCi/L	Y	U	U	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0516	0.0132	28.800		pCi/L	0.0528		pCi/L	Y	U	U	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0138	0.0109	28.800		pCi/L	0.0819		pCi/L	Y	U	U	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0212	0.00909	28.800		pCi/L	0.0698		pCi/L	Y	U	U	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00865	0.0106	28.800		pCi/L	0.0624		pCi/L	Y	U	U	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.186	0.0249	30.0000	0.3360	pCi/L	0.102		pCi/L	Y		NQ	N3B-2019-459	CAMO-19-164054	GELC
R-46	1340.0	11/13/2018	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.0218	30.0000	0.3360	pCi/L	0.0937		pCi/L	Y		NQ	N3B-2019-459	CAMO-19-164056	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.265	0.0281	30.0000	0.3360	pCi/L	0.0773		pCi/L	Y		NQ	2018-790	CAMO-18-148117	GELC
R-46	1340.0	11/07/2017	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.199	0.0231	30.0000	0.3360	pCi/L	0.0715		pCi/L	Y		NQ	2018-790	CAMO-18-148580	GELC
R-46	1340.0	11/08/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.17	0.0225	30.0000	0.3360	pCi/L	0.0929		pCi/L	Y		NQ	2017-389	CAMO-17-127236	GELC
R-46	1340.0	11/18/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.14	0.0201	30.0000	0.3360	pCi/L	0.079		pCi/L	Y		NQ	2016-365	CAMO-16-106109	GELC
R-46	1340.0	11/12/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.024	30.0000	0.3360	pCi/L	0.0687		pCi/L	Y		NQ	2015-297	CAMO-15-90283	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.87			63.1	µg/L	11.4		µg/L	Y		NQ	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.92			63.1	µg/L	11.4		µg/L	Y		NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.55			63.1	µg/L	11.4		µg/L	Y		NQ	2018-790	CAMO-18-148114	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.87			63.1	µg/L	11.4		µg/L	Y		NQ	2018-790	CAMO-18-148581	GELC
R-46	1340.0	05/04/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.55			63.1	µg/L	11.4		µg/L	Y		NQ	2017-1486	CAMO-17-132213	GELC
R-46	1340.0	11/08/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.1			63.1	µg/L	11.4		µg/L	Y		NQ	2017-389	CAMO-17-127256	GELC
R-46	1340.0	05/05/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.77			63.1	µg/L	11.4		µg/L	Y		NQ	2016-1157	CAMO-16-115284	GELC
R-46	1340.0	05/05/2016	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.67			63.1	µg/L	11.4		µg/L	Y		NQ	2016-1157	CAMO-16-115238	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.21			10000	µg/L		3.3	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.97			10000	µg/L		3.3	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.66			10000	µg/L		3.3	µg/L	Y	J	J	2018-790	CAMO-18-148114	GELC
R-46	1340.0	11/07/2017	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	N	3.3			10000	µg/L		3.3	µg/L	Y	U	U	201		

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	1.5		14100		µg/L	1.5	µg/L	Y	U	U	2018-790	CAMO-18-148118	GELC	
R-60	1330.0	05/03/2017	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10		14100		µg/L	1.5	µg/L	Y	U	U	2017-1476	CAMO-17-132236	GELC	
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10		14100		µg/L	1.5	µg/L	Y	U	U	2017-442	CAMO-17-127239	GELC	
R-60	1330.0	05/17/2016	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10		14100		µg/L	1.5	µg/L	Y	U	U	2016-1223	CAMO-16-115264	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.31					0.01	SU	Y	H	NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.27					0.01	SU	Y	H	NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26					0.01	SU	Y	H	NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8					0.01	SU	Y	H	NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26					0.01	SU	Y	H	NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60		72.9	mg/L	1.45	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC		
R-60	1330.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.7		72.9	mg/L	1.45	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC		
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60		72.9	mg/L	1.45	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC		
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.8		72.9	mg/L	1.45	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC		
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4		72.9	mg/L	0.725	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC		
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0035	0.00762		pCi/L	0.0501		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC	
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.011	0.00519		pCi/L	0.0327		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC	
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00231	0.00517		pCi/L	0.0576		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC	
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00894	0.00774		pCi/L	0.0302		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0186	0.0107		pCi/L	0.0646		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00968		pCi/L	0.0639		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.18		10		µg/L	2	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	2		10		µg/L	2	µg/L	Y	U	U	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.02		10		µg/L	2	µg/L	Y	J	J	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5		10		µg/L	1.7	µg/L	Y	U	U	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5		10		µg/L	1.7	µg/L	Y	U	U	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.6		1000	38.1	µg/L	1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.4		1000	38.1	µg/L	1	µg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.9		1000	38.1	µg/L	1	µg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.3		1000	38.1	µg/L	1	µg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	25.4		1000	38.1	µg/L	1	µg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2		17.03	mg/L	0.05	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC		
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2		17.03	mg/L	0.05	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC		
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.4		17.03	mg/L	0.05	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC		
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.2		17.03	mg/L	0.05	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC		
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.8		17.03	mg/L	0.05	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC		
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.463	0.607		pCi/L	2.04		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC	
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.439	1.2		2.930	pCi/L	4.42		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.237	1.02		2.930	pCi/L	3.88		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.108	1.73		2.930	pCi/L	5.59		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.638	1.17		2.930	pCi/L	4.39		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.2	1.7		2.930	pCi/L	5.08		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.84		250	2.7	mg/L	0.067	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.75		250	2.7	mg/L	0.067	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.88		250	2.7	mg/L	0.067	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.81		250	2.7	mg/L	0.067	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.8		250	2.7	mg/L	0.067	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.98		50		µg/L	3	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	5.57		50		µg/L	3	µg/L	Y	J	U	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.14		50		µg/L	3	µg/L	Y	J	J	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.14		50		µg/L	3	µg/L	Y	J	J	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.32		50		µg/L	2	µg/L	Y	J	J	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.233	0.66		2.65	pCi/L	2.46		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.52	1.55		2.65	pCi/L	4.26		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.535	1.07		2.65	pCi/L	3.98		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.321	1.48		2.65	pCi/L	6.06		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.11	1.27		2.65	pCi/L	4.13		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.718	1.04		2.65	pCi/L	3.71		pCi/L	Y	U	U	2015-353	C	

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.163		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.112		1.6	0.377	mg/L		0.033	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0912		1.6	0.377	mg/L		0.033	mg/L	Y	J	J	2016-1223	CAMO-16-115287	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.1	0.575	15.000		pCi/L	1.75		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.216	0.649	15.000		pCi/L	2.58		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.22	0.949	15.000		pCi/L	2.94		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0819	0.695	15.000		pCi/L	2.81		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0882	0.311	15.000		pCi/L	1.09		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.781	0.299	15.000		pCi/L	0.936		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.986	0.774			pCi/L	2.88		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.57	0.817			pCi/L	2.26		pCi/L	Y		NQ	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	RE	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.68	0.869			pCi/L	2.75		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	203	4.07			pCi/L	2.88		pCi/L	Y		NQ	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.01	0.937			pCi/L	2.92		pCi/L	Y		NQ	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.77	0.327			pCi/L	0.973		pCi/L	Y		NQ	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.4	0.4			pCi/L	1.21		pCi/L	Y		NQ	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.2			67.1	mg/L		0.453	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.9			67.1	mg/L		0.453	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.3			67.1	mg/L		0.453	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.6			67.1	mg/L		0.453	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.9			67.1	mg/L		0.453	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.83				mg/L		0.11	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.53				mg/L		0.11	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.5				mg/L		0.11	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.46				mg/L		0.11	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.64				mg/L		0.11	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.949		1000	2.5	µg/L		0.2	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.978		1000	2.5	µg/L		0.2	µg/L	Y		NQ	2018-790	CAMO-18-148115	GELC
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08		1000	2.5	µg/L		0.2	µg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01		1000	2.5	µg/L		0.3	µg/L	Y		NQ	2017-442	CAMO-17-127259	GELC
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.03		1000	2.5	µg/L		0.165	µg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.73	1.16			pCi/L	3.95		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.82	2.75			pCi/L	9.37		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.174	2.01			pCi/L	7.15		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.29	2.78			pCi/L	9.56		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.77	2.53			pCi/L	8.84		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.07	2.2			pCi/L	8.49		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.409		10	0.769	mg/L		0.017	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.344		10	0.769	mg/L		0.017	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.366		10	0.769	mg/L		0.017	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.394		10	0.769	mg/L		0.017	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.408		10	0.769	mg/L		0.017	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.348		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/07/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.374		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2018-790	CAMO-18-148115	GELC
R-60	1330.0	05/03/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.345		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC
R-60	1330.0	11/10/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.341		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2017-442	CAMO-17-127259	GELC
R-60	1330.0	05/17/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.338		13.8	0.414	µg/L		0.05	µg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00332	0.0104			pCi/L	0.0342		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00219	0.00579			pCi/L	0.0322		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00526	0.00744			pCi/L	0.0609		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0177	0.00984			pCi/L	0.023		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00305	0.00807			pCi/L	0.0409		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00475	0.00889			pCi/L	0.0319		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0182	0.00967			pCi/L	0.0377		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0197	0.00901			pCi/L	0.0461		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	P															

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.66			2.39	mg/L	0.05	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.77			2.39	mg/L	0.05	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.86			2.39	mg/L	0.05	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.84			2.39	mg/L	0.05	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.87			2.39	mg/L	0.05	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.7	12.5		pCi/L	20.1		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC	
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.55	22.7		pCi/L	85.7		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC	
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.54	15.2		pCi/L	31		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC	
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.5	17.5		pCi/L	70.7		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.7	15		pCi/L	56.9		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	45.2	15.9		pCi/L	29.1		pCi/L	Y	UI	R	2015-353	CAMO-15-90267	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73			81.9	mg/L	0.053	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.6			81.9	mg/L	0.053	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.3			81.9	mg/L	0.053	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.6			81.9	mg/L	0.053	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	75.4			81.9	mg/L	0.053	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.62			16	mg/L	0.1	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.25			16	mg/L	0.1	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.91			16	mg/L	0.1	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.86			16	mg/L	0.1	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.87			16	mg/L	0.1	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.342	1.49		pCi/L	2.1		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC	
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.411	1.35		pCi/L	5.36		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC	
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.88	1.19		pCi/L	5.24		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC	
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.909	1.41		pCi/L	6.05		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0268	1.25		pCi/L	4.74		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.309	1.3		pCi/L	4.99		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125					1	µS/cm	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	130					1	µS/cm	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	254					1	µS/cm	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	132					1	µS/cm	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120					3.63	µS/cm	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.5		11800	157	µg/L	1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	41.6		11800	157	µg/L	1	µg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45		11800	157	µg/L	1	µg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	41.9		11800	157	µg/L	1	µg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.4		11800	157	µg/L	1	µg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.158	0.079	8.0000	pCi/L	0.282		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC	
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.15	0.121	8.0000	pCi/L	0.446		pCi/L	Y	U	U	2018-790	CAMO-18-148118	GELC	
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.295	0.141	8.0000	pCi/L	0.463		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC	
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.19	0.0993	8.0000	pCi/L	0.481		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.101	0.117	8.0000	pCi/L	0.47		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC	
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.325	0.122	8.0000	pCi/L	0.484		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.02		600	4.59	mg/L	0.133	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.98		600	4.59	mg/L	0.133	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.1		600	4.59	mg/L	0.133	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.08		600	4.59	mg/L	0.133	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.15		600	4.59	mg/L	0.133	mg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2						deg C	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2						deg C	Y		NQ	N3B-2019-459	CAMO-19-164059	GELC	
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2						deg C	Y		NQ	2018-790	CAMO-18-148118	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	2						deg C	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	4						deg C	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	05/03/2017	WG	UF	INIT	REG	VOC	EPA:170.0	Temperature	TEMP	Y	4						deg C	Y		NQ	2017-1476	CAMO-17-132236	GELC	
R-60	1330.0	11/13/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159		1000	161	mg/L	3.4	mg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119		1000	161	mg/L	3.4	mg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130		1000	161	mg/L	3.4	mg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130		1000	161	mg/L	3.4	mg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:16																	

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	Screening Value	Background	Units	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.464	0.926	20000.000		pCi/L	2.727		pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164059	ARSL
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.069	0.698	20000.000		pCi/L	2.379		pCi/L	Y	U	U	2018-835	CAMO-18-148118	ARSL
R-60	1330.0	05/03/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.851	0.835	20000.000		pCi/L	2.553		pCi/L	Y	U	U	2017-1483	CAMO-17-132236	ARSL
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.625	0.599	20000.000		pCi/L	2.064		pCi/L	Y	U	U	2017-493	CAMO-17-127239	ARSL
R-60	1330.0	05/17/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.253	0.711	20000.000		pCi/L	2.245		pCi/L	Y	U	U	2016-1238	CAMO-16-115264	ARSL
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.519		30		µg/L	0.067	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC	
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.5		30		µg/L	0.067	µg/L	Y		NQ	2018-790	CAMO-18-148115	GELC	
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.618		30		µg/L	0.067	µg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC	
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.527		30		µg/L	0.067	µg/L	Y		NQ	2017-442	CAMO-17-127259	GELC	
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.555		30		µg/L	0.067	µg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC	
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.461	0.0397	27.2000	0.7150	pCi/L	0.11		pCi/L	Y		NQ	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.407	0.0344	27.2000	0.7150	pCi/L	0.132		pCi/L	Y		NQ	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.386	0.0305	27.2000	0.7150	pCi/L	0.0998		pCi/L	Y		NQ	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.44	0.0365	27.2000	0.7150	pCi/L	0.0927		pCi/L	Y		NQ	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.584	0.0588	27.2000	0.7150	pCi/L	0.113		pCi/L	Y		NQ	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.347	0.0502	27.2000	0.7150	pCi/L	0.111		pCi/L	Y		NQ	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.02	0.012	28.800		pCi/L	0.107		pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0625	0.0151	28.800		pCi/L	0.0573		pCi/L	Y		NQ	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0568	0.0139	28.800		pCi/L	0.0673		pCi/L	Y	U	U	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0211	0.0111	28.800		pCi/L	0.0809		pCi/L	Y	U	U	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0272	0.0192	28.800		pCi/L	0.0982		pCi/L	Y	U	U	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.0189	28.800		pCi/L	0.0966		pCi/L	Y	U	U	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.236	0.0291	30.0000	0.3360	pCi/L	0.108		pCi/L	Y		NQ	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/07/2017	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.239	0.0271	30.0000	0.3360	pCi/L	0.0775		pCi/L	Y		NQ	2018-790	CAMO-18-148118	GELC
R-60	1330.0	11/10/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.202	0.0218	30.0000	0.3360	pCi/L	0.0764		pCi/L	Y		NQ	2017-442	CAMO-17-127239	GELC
R-60	1330.0	11/17/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.185	0.0243	30.0000	0.3360	pCi/L	0.0915		pCi/L	Y		NQ	2016-362	CAMO-16-106112	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.242	0.0381	30.0000	0.3360	pCi/L	0.108		pCi/L	Y		NQ	2015-353	CAMO-15-90284	GELC
R-60	1330.0	11/17/2014	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.173	0.0351	30.0000	0.3360	pCi/L	0.106		pCi/L	Y		NQ	2015-353	CAMO-15-90267	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.41		63.1	11.4	µg/L		1	µg/L	Y		NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/07/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8		63.1	11.4	µg/L		1	µg/L	Y		NQ	2018-790	CAMO-18-148115	GELC
R-60	1330.0	05/03/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.44		63.1	11.4	µg/L		1	µg/L	Y		NQ	2017-1476	CAMO-17-132216	GELC
R-60	1330.0	11/10/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.47		63.1	11.4	µg/L		1	µg/L	Y		NQ	2017-442	CAMO-17-127259	GELC
R-60	1330.0	05/17/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.97		63.1	11.4	µg/L		1	µg/L	Y		NQ	2016-1223	CAMO-16-115287	GELC

Appendix D

Groundwater Results Greater Than Half of Screening Values

Zone	Location ID	Screen Depth	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Preparation Code	Analysis Type Code	Field Quality Control Code	Detected	Report Result	Method Detection Limit	Report Unit	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	Best Value	Lab Method	Lab ID	Screening Level	Reporting Level Code	Result per Screening Level
Regional	R-46	1340.000	11/13/2018	Inorganic	Antimony	Sb	F ^a	INIT ^b	REG ^c	Y ^d	3.13	1.00	µg/L	1.00	— ^e	NQ ^f	NQ	Y	SW-846:6020	GELC ^g	6	EPA MCL ^h	0.52
Regional	R-46	1340.000	11/13/2018	Inorganic	Antimony	Sb	F	INIT	FD ⁱ	Y	3.16	1.00	µg/L	1.00	—	NQ	NQ	Y	SW-846:6020	GELC	6	EPA MCL	0.53

^a F = Filtered.

^b INIT = Initial.

^c REG = Regular.

^d Y = Yes.

^e — = None.

^f NQ = Not qualified.

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

^h EPA MCL = U.S. Environmental Protection Agency maximum contaminant level.

ⁱ FD = Field duplicate.

Appendix E

*Analytical Chemistry Graphs of
Results with Screening-Value Exceedances*

There are no exceedances for this periodic monitoring report.

Appendix F

Analytical Reports
(on CD included with this document)

CD Table of Contents

Chain of Custody #	Parameter Category	Lab ID	Field Sample ID	Sample Date	Location ID	Screen Start (Top) Depth	Screen End (Bottom) Depth
N3B-2019-437	Inorganic	GELC ^a	CAMO-19-164050	11/09/2018	R-14 S1	1200.6	1233.2
N3B-2019-437	Inorganic	GELC	CAMO-19-164051	11/09/2018	R-14 S1	1200.6	1233.2
N3B-2019-437	Organic	GELC	CAMO-19-164051	11/09/2018	R-14 S1	1200.6	1233.2
N3B-2019-437	Rad ^b	GELC	CAMO-19-164051	11/09/2018	R-14 S1	1200.6	1233.2
N3B-2019-459	Inorganic	GELC	CAMO-19-164053	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Inorganic	GELC	CAMO-19-164054	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Inorganic	GELC	CAMO-19-164055	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Inorganic	GELC	CAMO-19-164056	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Inorganic	GELC	CAMO-19-164058	11/13/2018	R-60	1330.0	1350.9
N3B-2019-459	Inorganic	GELC	CAMO-19-164059	11/13/2018	R-60	1330.0	1350.9
N3B-2019-459	Organic	GELC	CAMO-19-164054	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Organic	GELC	CAMO-19-164056	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Organic	GELC	CAMO-19-164059	11/13/2018	R-60	1330.0	1350.9
N3B-2019-459	Rad	GELC	CAMO-19-164054	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Rad	GELC	CAMO-19-164056	11/13/2018	R-46	1340.0	1360.7
N3B-2019-459	Rad	GELC	CAMO-19-164059	11/13/2018	R-60	1330.0	1350.9
N3B-2019-480	Rad	ARSL ^c	CAMO-19-164051	11/09/2018	R-14 S1	1200.6	1233.2
N3B-2019-480	Rad	ARSL	CAMO-19-164054	11/13/2018	R-46	1340.0	1360.7
N3B-2019-480	Rad	ARSL	CAMO-19-164056	11/13/2018	R-46	1340.0	1360.7
N3B-2019-480	Rad	ARSL	CAMO-19-164059	11/13/2018	R-60	1330.0	1350.9

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

^b Rad = Radiochemistry.

^c ARSL = American Radiation Services, Inc.

