EMID-702944

DEPARTMENT OF ENERGY
Environmental Management Los Alamos Field Office (EM-LA)
Los Alamos, New Mexico 87544

EMLA-24-BF14-2-1

November 3, 2023

Mr. Rick Shean
Designated Agency Manager
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Subject: Submittal of the 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1, and the Response to the New Mexico Environment Department Review of the 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed

Dear Mr. Shean:

Enclosed please find two hard copies with electronic files of the "2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1." Enclosure 1 includes an electronic copy of a redline strikeout version of the report that incorporates all changes made in response to the New Mexico Environment Department's (NMED's) review comments dated September 19, 2023 (Enclosure 2).

This report is 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 Amanda White at (505) 309-1366 (amanda.white@em-la.doe.gov) or Hai Shen at (505) 709-7600 (hai.shen@em.doe.gov).

Sincerely,

Digitally signed by BRIAN HARCEK
Date: 2023.11.02 15:10:41 -06'00'

Arturo Q. Duran For
Compliance and Permitting Manager
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s): Two hard copies with electronic files

1. 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1 (including a redline strikeout version) (EM2023-0754)
2. Response to the New Mexico Environment Department's Review of the 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Los Alamos National Laboratory, EPA ID#NM0890010515, HWB-LANL-23-037, Dated September 19, 2023 (EM2023-0753)

cc (letter with CD/DVD enclosure[s]):
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Response to New Mexico Environment Department Review,
2023 Annual Periodic Monitoring Report for the Material Disposal Area C
Monitoring Group, Mortandad Canyon Watershed
Los Alamos National Laboratory, EPA ID #NM0890010515, HWB-LANL-23-037,
Dated September 19, 2023

INTRODUCTION

To facilitate review of this response, the New Mexico Environment Department's (NMED's) comments are included verbatim (in italics). The U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office's responses follow each NMED comment.

SPECIFIC COMMENTS

NMED Comment

1. Section 1.0, Introduction, includes the incorrect document citation for the "Interim Facility-Wide Groundwater Monitoring Plan for the 2023 Monitoring Year, October 2022-September 2023". The citation referenced in the Report is for the 2021 Monitoring Year. Revise the reference to the correct document.

DOE Response

1. DOE has revised the report, replacing the identified incorrect reference with the correct reference for the 2023 Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) (N3B 2022, 702346). DOE also identified incorrect references for the IFGMP in section 2.0 and section 4.1, and the correct reference was missing from the reference in section 7.0. DOE has revised the report to correct these incorrect references and add the correct reference to the reference list.

NMED Comment

2. This Report should contain results from the periodic monitoring event field sampling period from November 15, 2022-November 21, 2022. However, all the sampling dates provided in Table C-1, Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report, demonstrate results from sample dates November 15, 2021-November 17, 2021. Revise Table C-1 to include the sampling results from the required periodic monitoring event through the first quarter of MY2023.

DOE Response

2. DOE has revised the report to provide the correct table C-1 containing data from November 15, 2022, through November 21, 2022.

NMED Comment

3. As stated in the Report, results for Low-Level tritium were not reported for MY2023 in Table C-1 or Table C-2 for locations R-14 S1, R-46 and R-60. Provide results for Low-Level tritium when it is available.

DOE Response

3. Per the monitoring year (MY) 2023 IFGMP, Revision 1 (N3B 2022, 702346), all three locations were planned for low-level tritium sampling. The samples were sent to ARS Aleut Analytical, LLC (ALEUT), formerly called American Radiation Services, Inc. (ARSL), in Port Allen, Louisiana, for analysis.

   ALEUT is the only laboratory accredited by the DOE Consolidated Audit Program – Accreditation Program for use by the DOE community to perform low-level tritium analyses. The demand for accredited low-level tritium analyses has exceeded ALEUT's ability to provide analytical services. Low-level tritium results for locations R-14 screen 1, R-46, and R-60 were uploaded 251 to 252 days after sampling; will be available at the time of the 2024 Material Disposal Area C monitoring group periodic monitoring report submittal on May 31, 2024; and will be included in Table C-2 of that report. Additionally, these results have been added to Tables C-1 and C-2 and are available on the CD included with the revised report. Tritium results from the last four sampling events have also been added to Table C-2 for each of the locations.

REFERENCE

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), September 2022. "Interim Facility-Wide Groundwater Monitoring Plan for the 2023 Monitoring Year, October 2022–September 2023, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2022-0656, Los Alamos, New Mexico. (N3B 2022, 702346)

November 2023
EM2023-0754

2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1

N3B Los Alamos

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.

EM2023-0754

2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1

November 2023

Responsible program director:

Printed Name	Signature	Title	Organization	Date
Amanda White		Senior Manager	Water Program	10/26/23

Responsible program director:

Printed Name	Signature	Title	Organization	Date
Michael Erickson		Program Director	Water Oversight Program	10/25/23

Responsible N3B representative:

Printed Name	Signature	Title	Organization	Date
Troy Thomson		Program Manager	N3B Environmental Remediation Program	10/26/23

Responsible DOE EM-LA representative:

Printed Name	Signature	Title	Organization
Arturo Q. Duran	Digitally signed by BRIAN HARCEK Date: 2023.11.02 18:35:54 -06'00'	Compliance and Permitting Manager	Office of Quality and Regulatory Compliance

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 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 2023 Monitoring Year, October 2022–September 2023, Revision 1" (2023 IFGMP) prepared in accordance with the 2016 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 and well screen locations.

This PMR presents monitoring results for one periodic monitoring event (PME) conducted during the first quarter of monitoring year 2023 (MY2023). In addition to results from this PME, results are reported for the previous four PMEs, as well as data from earlier MDA C Investigation monitoring group PMEs that have not yet been reported because the validated laboratory data were not available at the time of previous MDA C PMR publications.

Groundwater samples collected during the PME were analyzed for all or some of the following analytical groups as specified in the 2023 IFGMP: metals; volatile organic compounds; per- and polyflouroalkyl substances (PFAS); polychlorinated biphenyls; high explosives; radionuclides (including low-level tritium); and general inorganic chemicals (including perchlorate). The same samples were also measured for the following field parameters during purging and immediately prior to sample collection: dissolved oxygen, flow rate (in gallons per minute), oxidation-reduction potential, pH, specific conductance, temperature, and turbidity.

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

CONTENTS

Figures

Tables

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Acronyms and Abbreviations

ARS	ARS Aleut Analytical, LLC
amsl	above mean sea level
bgs	below ground surface
COC	chain of custody
Consent Order	Compliance Order on Consent
CV	casing volume
DOE	Department of Energy (U.S.)
DQO	data quality objective
EPA	Environmental Protection Agency (U.S.)
EQB	equipment rinsate blank
F	filtered
FB	field blank
FD	field duplicate
FTB	field trip blank
GELC	GEL Laboratories, LLC, Division of the GEL Group, Inc., Charleston, SC
gpm	gallons per minute
GW	groundwater
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
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NTU	nephelometric turbidity unit(s)
PEB	performance evaluation blank
PME	periodic monitoring event
PMR	periodic monitoring report
QA	quality assurance
QC	quality control
S	screen
SAP	sampling and analysis plan
SOP	standard operating procedure

STD	standard
SU	standard unit
SVOC	semivolatile organic compound
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	2023	1	11/15/2022	11/21/2022

The annual MDA C monitoring group PMR is submitted to the New Mexico Environment Department (NMED) every May and includes results from MDA C monitoring group PME performed through the first quarter of MY2023. 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 MDA C PMR publications.

The PME reported in this PMR consisted of sampling groundwater wells pursuant to the "Interim Facility-Wide Groundwater Monitoring Plan for the 2023 Monitoring Year, October 2022–September 2023, Revision 1" (hereafter referred to as the MY 2023 IFGMP) (N3B 2022, 702346) , which was prepared in accordance with the 2016 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. Screening values for evaluating IFGMP monitoring data include New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), NMED screening levels for tap water, and EPA regional screening levels for tap water. Additional risk evaluation is required to determine the potential need for cleanup (corrective action) if results indicate that contaminants pose an unacceptable risk.

This report presents the following information:

- general background information for the MDA C monitoring group;
- scope of activities for the MDA C monitoring group;
- regulatory criteria for screening analysis;
- monitoring results (field parameters, groundwater elevations);
- analytical data results; and
- a summary of the monitoring data and the results of screening analysis.

All information associated with analyses of radionuclides 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 Ten Site Canyon, a side canyon to 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.

Figure 1.1-1 is an MDA C monitoring group vicinity map. Monitoring locations are shown in Figure 1.1-2.

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 of in the landfill between 1948 and 1974. The depths of the 7 pits at MDA C range from 12 ft to 25 ft below the original ground surface. The depths of the 108 shafts range from 10 ft to 25 ft below the original ground surface. The original ground surface is defined as beneath the cover that was placed over the site in 1984. The pits and shafts are constructed in the Tshirege Member of the Bandelier Tuff. The regional aquifer is estimated to be approximately 1332 ft below ground surface (bgs) 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.

2.0 SCOPE OF ACTIVITIES

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

Groundwater samples collected during the PME were analyzed for some or all of the following analytical groups as specified in the 2023 IFGMP (N3B 2022, 702346): metals; VOCs; per- and polyflouroalkyl substances (PFAS); polychlorinated biphenyls; high explosives; radionuclides (including low-level tritium); and general inorganic chemicals (including perchlorate). The same samples were also measured for the following field parameters: dissolved oxygen, flow (in gallons per minute), oxidation-reduction potential, pH, specific conductance, temperature, and turbidity.

Purge water is managed and characterized in accordance with the most recent version of the “Waste Characterization Strategy Form,” (N3B-AP-TRU-2150). Purge water is stored until characterization is complete, and if requirements are met, the purge water is land-applied in accordance with the standard operating procedure (SOP) “Land Application of Groundwater” (N3B-SOP-ER-3006), and “Regulatory Requirements for the Land Application of Groundwater” (N3B-QP-RGC-0002), which implements the NMED-approved decision tree for land application of drilling, development, rehabilitation, and purge water.

Table 2.0-1 provides information about each well sampled during the report’s PME. Information provided includes the well location name and watershed; the monitoring year and quarter of the sampling event; the sample collection date; each well’s screened interval with top and bottom screen depths; and the casing volume, purge volume, and purge or flow rate for each sampling event.

2.1 PME Observations and Deviations from Planned Scope

Low-level tritium samples were sent to American Radiation Services, Inc. (ARSL), now called Aleut Analytical, LLC. (ARS), in Port Allen, Louisiana for analysis. ARS is the only laboratory accredited by the DOE Consolidated Audit Program – Accreditation Program for use by the DOE community to perform low-level tritium analyses. The demand for accredited low-level tritium analyses has exceeded ARS's ability provide analytical services. Low-level tritium results are not yet available for the following locations in MY 2023: R-14 S1, R-46, and R-60.

Table 2.1-1 summarizes the observations and deviations from the planned monitoring scope for this annual PMR.

3.0 REGULATORY CRITERIA

Regulatory criteria related to groundwater quality form the basis for the screening values with 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.

- For each individual substance, the lower concentration of the NMWQCC groundwater standard or EPA MCL is used as the screening value.
- If the NMWQCC groundwater standard or an EPA 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 1×10^{-5} excess cancer risk. This report was prepared using the November 2021 NMED Risk Assessment Guidance for Site Investigations and Remediation (NMED 2021, 701849).
- 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 1×10^{-5} excess cancer risk. The EPA screening levels for tap water are at 1×10^{-6} excess cancer risk; therefore, 10 times the EPA 1×10^{-6} screening levels are used in the screening process. This report was prepared using the November 2021 EPA regional screening levels for tap water (http://www.epa.gov/risk/risk-based-screening-table-generic-tables).
- The NMWQCC groundwater standards apply to specified contaminants in the dissolved (filtered) portion of samples. However, the standards for mercury and organic compounds apply to the concentrations of the contaminants in unfiltered samples. For this report, EPA MCLs are applied to contaminant concentrations in 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 2023 IFGMP (N3B 2022, 702346).

4.2 Comparison of Target Analytes and Method Detection Limits

Several analytes have a range of method detection limits (MDLs). For some of these analytes, the current MDL is much lower than former MDLs for earlier analyses. Table 4.2-1 presents a list of target analytes with MDLs equal to or above screening values. Table 4.2-2 presents a list of analytes where the lower range of MDLs is below the screening value but the upper portion of the range is above the screening value. Target analytes with MDLs entirely below the screening value are not listed. 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. Table 2.1-1 notes any instances where the requirement for collecting field parameter measurements could not be met.

4.4 Groundwater Elevations

The groundwater elevations are measured at each monitoring location before purging and sampling at that location, as required by the Consent Order. In addition to collecting groundwater elevation data before purging and sampling, N3B collects groundwater elevation 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 elevation 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.

There are no data gaps in this PMR.

Groundwater elevation data from the end of the previous PME and through the end of the PME reported in this PMR are presented in Appendix B (on CD included with this document) and include all continuous groundwater elevation data.

Groundwater elevation measurements are shown graphically in Figure 4.4-1. For wells equipped with transducers, the reported groundwater level is the first groundwater level measurement taken each day. Figure 4.4-1 shows the elevation of the regional groundwater surface and flow directions from November 15, 2022. Regional aquifer surface contours are drawn by hand in accordance with the three point solution method as described by EPA (https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=287064&Lab=NRMRL). Adjacent wells are grouped into triplets and straight lines are

drawn connecting them, making a triangle. Using the methods of Heath (https://pubs.usgs.gov/wsp/2220/report.pdf), a gradient vector is calculated for each set of triplets. This method assumes that the water table surface is planar, that flow is mostly horizontal, and that there is no pumping or injection. Since these assumptions are not always appropriate, some interpretation is necessary to produce a realistic potentiometric surface. Groundwater flow vectors are perpendicular to the contour lines and point downgradient. These vectors were calculated using the transect tool in QGIS.

All groundwater elevation data for locations with transducers are reported in Appendix B and in Figure 4.4-1.

5.0 ANALYTICAL DATA RESULTS

5.1 Methods and Procedures

All methods and procedures used to perform the analysis for the data reported in this PMR are documented in the MY 2023 IFGMP (N3B 2022, 702346). Samples and field data collection are conducted using SOPs that are part of a comprehensive quality assurance/quality control (QA/QC) program. These SOPs are listed and described in Appendix B of the IFGMP.

Sampling and analysis plans (SAPs) are created using MY 2023 IFGMP Tables 1.8-1, 1.11-1, and 4.4-1 (N3B 2022, 702346). SAPs include additional field collection, transportation, and field QA samples as identified in the N3B data quality objectives (DQOs), MY 2023 IFGMP, and in the Consent Order. A sample collection log is created from the SAP and is used to maintain chain-of-custody (COC) and to create the COC and the analytical request form.

Field QA sampling and analysis is employed as an aspect of the QA/QC program to qualify field sample analytical results. These samples include field blanks (FBs), equipment rinsate blanks (EQBs), performance evaluation blanks (PEBs), field trip blanks (FTBs), and field duplicates (FDs). These field QA/QC samples support monitoring the quality of field sample collection, shipping processes, and analytical laboratory processes. Additional description regarding these types of QA/QC samples is provided in Appendix D of the MY 2023 IFGMP (N3B 2022, 702346).

Following sample collection, sampling personnel deliver the samples and the sample collection log to sample management personnel at the N3B Sample Management Office. 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 group. Samples are then shipped to analytical laboratories under COC for analysis.

In addition to analyzing the field samples and field QA/QC samples, laboratories also employ laboratory batch QA/QC samples. These include matrix spikes, duplicates, method blanks, and laboratory control samples that are prepared and analyzed by the laboratories to monitor their analytical process quality.

The analytical data are submitted by the analytical laboratory and is uploaded to the N3B (EIM) database. The received data are then independently validated through the N3B data validation process, as per the DQOs described below, to qualify the data.

Analytical results meet the N3B minimum DQOs as outlined in N3B-PLN-SDM-1000, “Sample and Data Management Plan.” N3B-PLN-SDM-1000 sets the validation frequency criteria at 100% Level 1 examination and Level 2 verification of data and at 10% minimum Level 3 validation of data. A Level 1 examination assesses the completeness of the data as delivered from the analytical laboratory, identifies any reporting errors, and checks the usability of the data based on the analytical laboratory’s evaluation

of the data. A Level 2 verification evaluates the data to determine the extent to which the laboratory met the analytical method and the contract-specific QC and reporting requirements. A Level 3 validation includes Levels 1 and 2 criteria and determines the effect of potential anomalies encountered during analysis and possible effects on data quality and usability. A Level 3 validation is performed manually with method-specific data validation procedures. Laboratory analytical data are validated by N3B personnel as outlined in N3B-PLN-SDM-1000; N3B-AP-SDM-3000, "General Guidelines for Data Validation"; N3B-AP-SDM-3014, "Examination and Verification of Analytical Laboratory Data"; and additional method-specific analytical data validation procedures. All associated validation procedures have been developed, where applicable, from the EPA QA/G-8, "Guidance on Environmental Data Verification and Data Validation" (https://www.epa.gov/sites/production/files/2015-06/documents/g8-final.pdf), the "Department of Defense (DoD)/Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories" (https://denix.osd.mil/edqw/documents/manuals/qsm-version-5-3-final/), the EPA "National Functional Guidelines for Data Review" (https://www.epa.gov/clp/superfund-clp-national-functional-guidelines-nfgs-data-review), and the American National Standards Institute/American Nuclear Society 41.5, "Verification and Validation of Radiological Data for Use in Waste Management and Environmental Remediation" (https://webstore.ansi.org/standards/ansi/ansians412012).

Validation qualifiers and reason codes applied during this process are also reviewed and approved by an N3B chemist to assess data usability and quality. The EIM data are then made available to the public in the Intellus New Mexico database (https://intellusnm.com/).

5.2 Analytical Data

Appendix C presents the analytical data for the PME reported in this PMR and from the previous four sampling events. Table C-1 of the appendix contains all data for this reporting period. Table C-2 contains all detections of analytes from this reporting period plus the respective results from the four previous sampling events. The data were reviewed for compliance with regulatory and N3B requirements and are reported as follows:

- For all data
  - ❖ FD results, reanalysis results, and results of the same analytes from the same sample analyzed by different analytical methods are reported.
  - ❖ Data that are R-qualified (rejected and thus unusable because of analytical problems and/or noncompliance with QA/QC criteria during independent validation) are still reported.
  - ❖ Laboratory QA/QC results, FTB data, FB data, EQB data, and PEB data are not included in the data set.
  - ❖ Tracers and other analytes used for conceptual models are not reported.
  - ❖ Data for certain target analytes from watch-list wells that are not representative or are of questionable representativeness are not reported.
  - ❖ All other results are reported for all locations.
- For radionuclide data:
  - ❖ 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 data from chemical separation alpha spectroscopy are reported. Gamma spectroscopy results for these analytes are not presented.
  - ❖ All other radionuclide results are reported for all locations.

Multiple analyses of the same analyte in a sample, including dilutions and reanalyses, create multiple results. These multiple results for the same analyte have the same sample ID, analytical laboratory code, and analytical method. Validation determines the more accurate result, which is marked with a best-value flag of “Y” (yes). The other results for that analyte, which were validated to be of lower quality, are assigned a best-value flag of “N” (no). The best-value flag is included in Appendix C.

Appendix D presents each analytical result detected at a concentration of greater than half the applicable screening value. Results with a best-value flag of “N” are included in Appendix D but not discussed in the text. There were no locations where an analyte exceeded greater than half of its screening value at least once during the PMEs reported in this PMR, so no data are included in Appendix D.

Table 5.2-1 is not included in this PMR since no analytical results were detected at concentrations greater than screening values.

The analytical results for radionuclides and radioactivity are voluntarily compared with the Derived Concentration Technical Standard (DOE 2011, 600493) for groundwater but are not reported in Table 5.2-1 if applicable or Appendix D.

Graphs in Appendix E display analyte concentration histories for monitoring group locations where the analyte was detected above the screening value at least once in the historical set that includes this PME in addition to data from the previous 3 yr if available. Appendix E may include instances where the analyte data are evaluated using a higher screening value than that used to evaluate previously reported analyte data. For example, the current screening value of 13.8 µg/L for perchlorate is greater than the former screening value of 4 µg/L, which was used to evaluate previously reported analyte data. If there are exceedances of the current screening value by the data reported in this PMR, the graphs depict the current analyte screening value. If there are 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. Magenta lines indicate the PMR reporting period. Results with a best value flag of “N” are not included in Appendix E. There were no locations where an analyte exceeded its screening value at least once during the PMEs reported in this PMR and the four other most recent PMEs, so no graphs are included in Appendix E.

The final records packages, including COC forms and data validation forms, are provided in Appendix F (on CD included with this document).

5.2.1 Groundwater

No groundwater analytical results reported in this PMR were detected at concentrations that exceeded 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. No groundwater constituents analyzed during the PME associated with this PMR were detected above the applicable groundwater screening values.

6.3 Data Gaps

Table 2.1-1 summarizes deviations from the planned monitoring scope for this PMR including data gaps and cancelations because of sampling complications. Low-level tritium samples were sent to American Radiation Services, Inc., now called ARS Aleut Analytical, LLC. (Aleut), in Port Allen, Louisiana for analysis. Aleut is the only laboratory accredited by the DOE Consolidated Audit Program - Accreditation Program (DOECAP-AP) for use by the DOE community to perform low-level tritium analyses. The demand for accredited low-level tritium analyses has exceeded Aleut's ability provide analytical services. Low-level tritium results were not available for the following locations at the time of the original submission to NMED: R-14 screen 1, R-46, R-60. These results are now included in Tables C-1 and C-2.

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. ERIDs were assigned by Los Alamos National Laboratory's (LANL or the 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).

DOE (U.S. Department of Energy), April 2011. "Derived Concentration Technical Standard," DOE Standard No. DOE-STD-1196-2011, U.S. Department of Energy, Washington, D.C. (DOE 2011, 600493)

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)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), September 2022. "Interim Facility-Wide Groundwater Monitoring Plan for the 2023 Monitoring Year, October 2022–September 2023, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2022-0656, Los Alamos, New Mexico. (N3B 2022, 702346)

NMED (New Mexico Environment Department), November 2021. "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 2021, 701849)

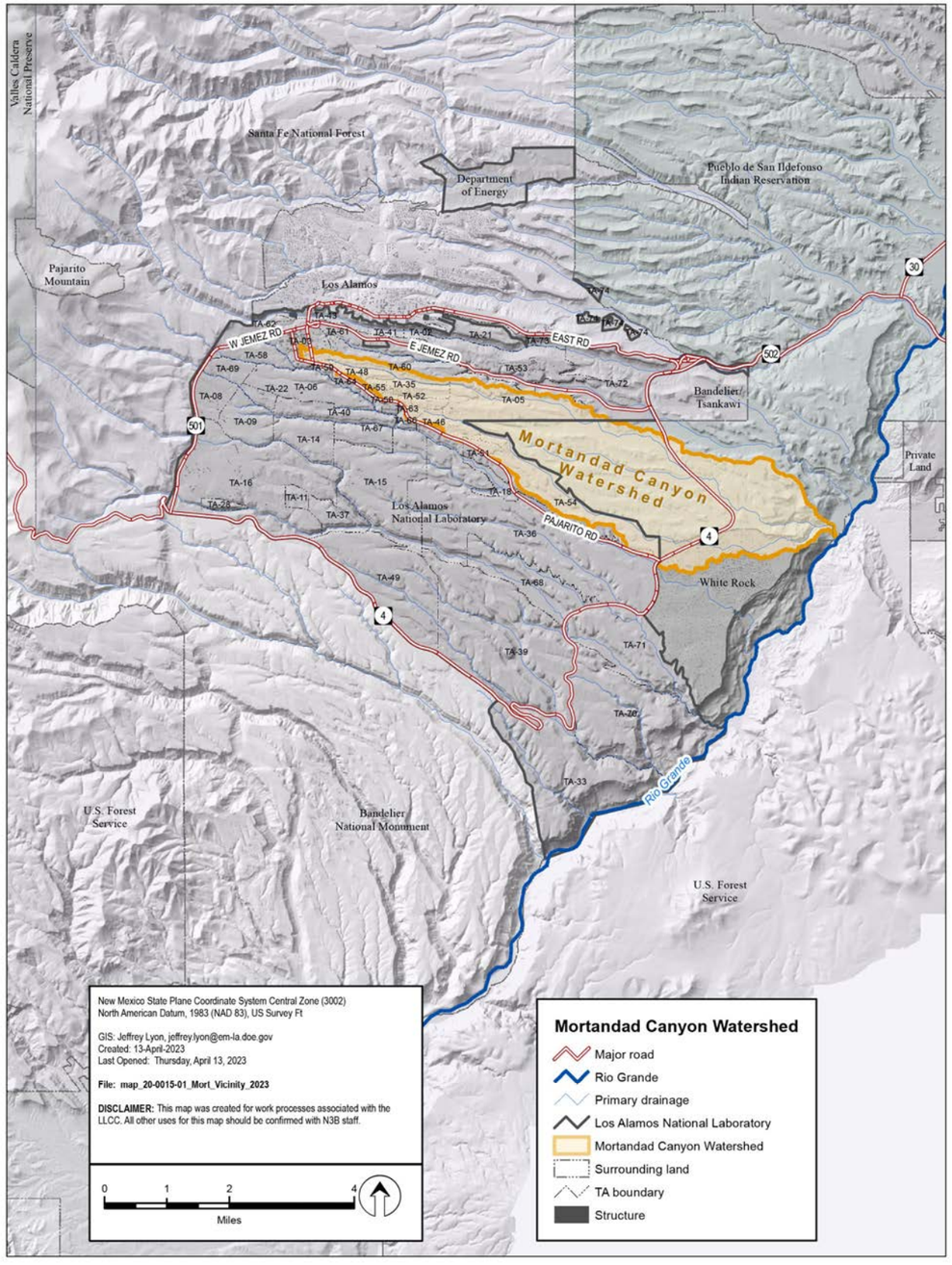
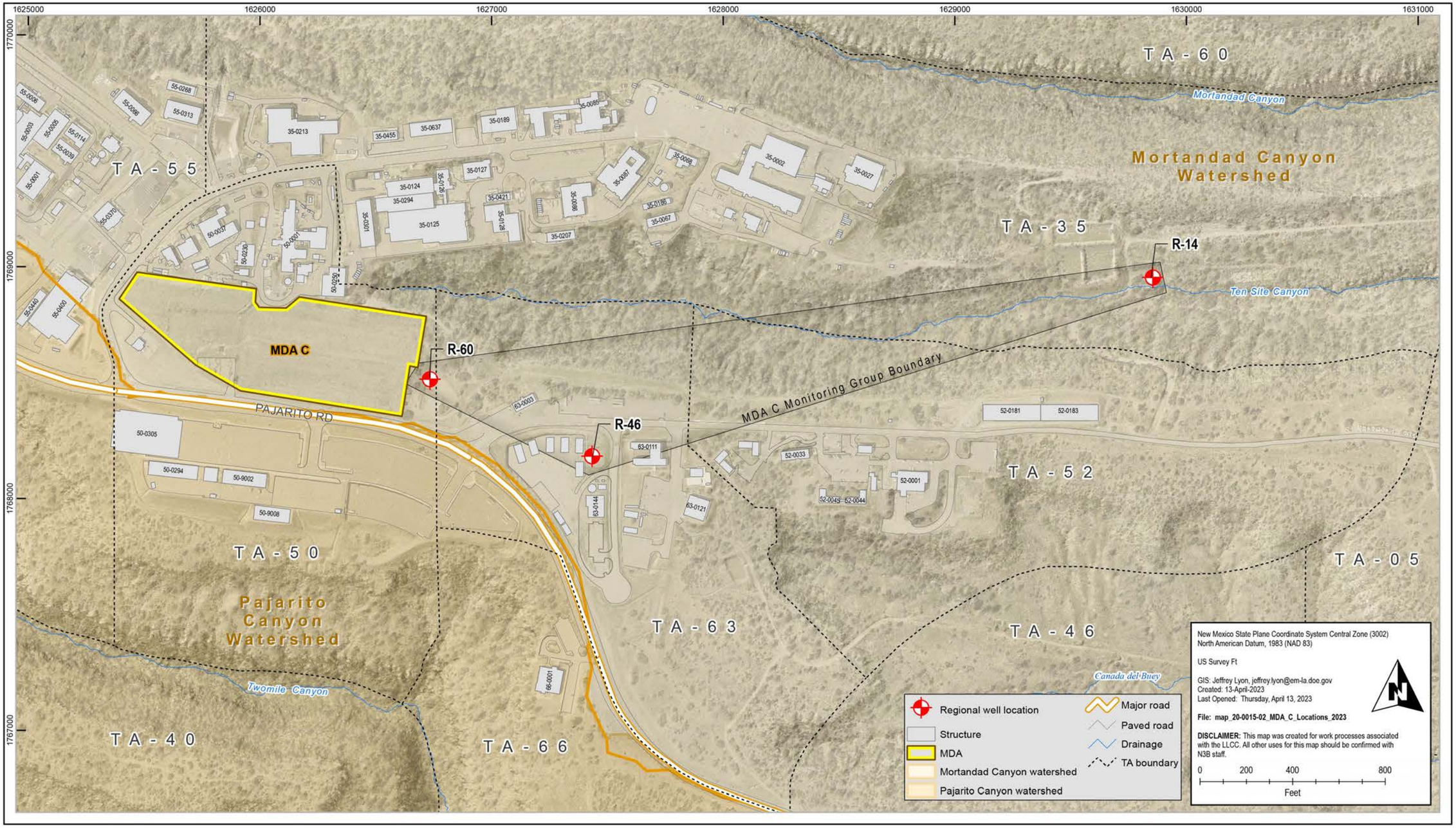


Figure 1.1-1 MDA C monitoring group vicinity map



Note: See also Table 2.0-1.

Figure 1.1-2 MDA C monitoring group well locations

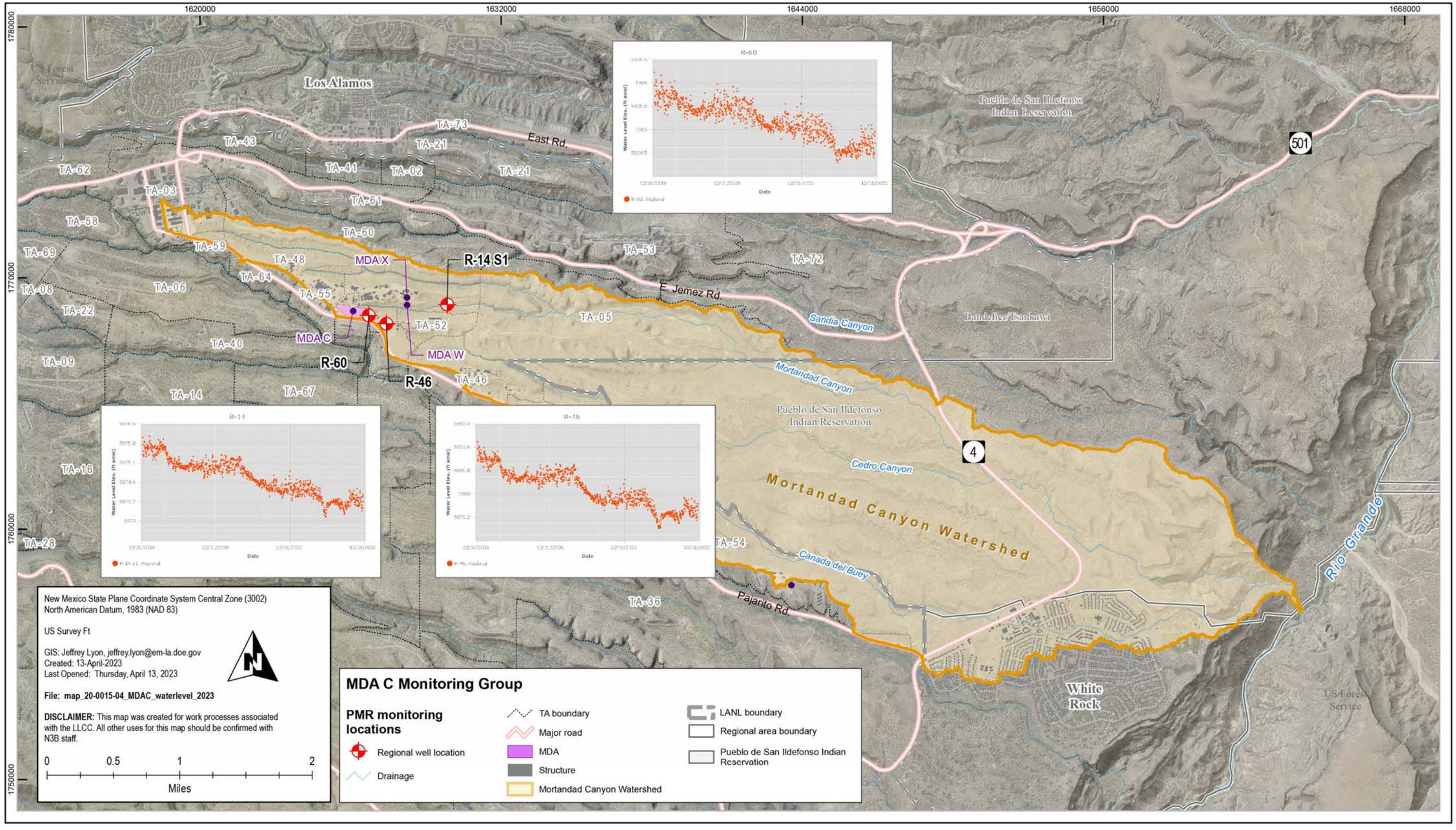


Figure 4.4-1 Groundwater elevations

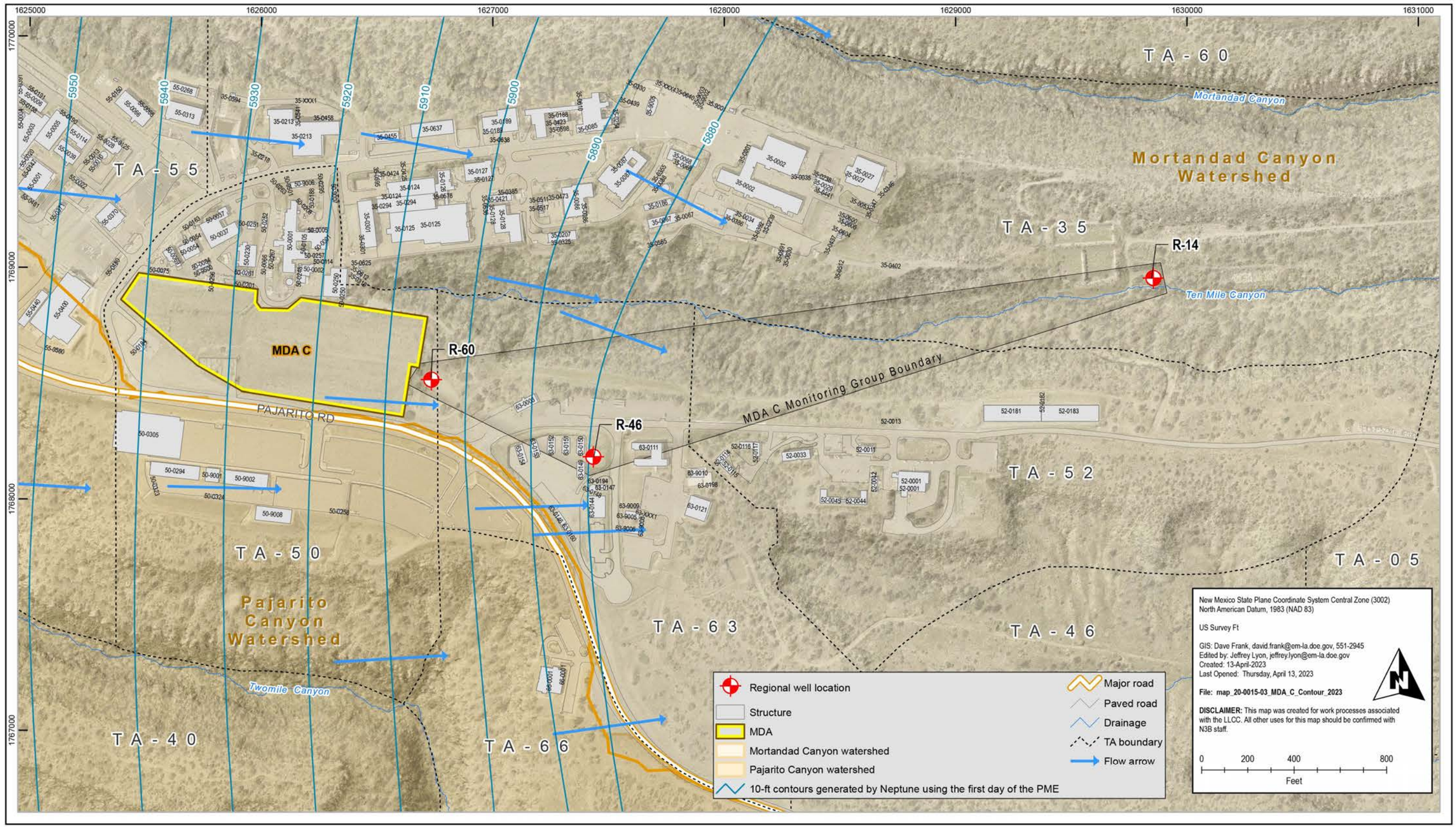


Figure 4.4-2 Regional aquifer water table map with flow direction

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 bgs)	Screen Bottom Depth (ft bgs)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge or Flow Rate (gpm[a])
		Monitoring Year	Quarter							
Regional										
R-14 S1[b]	Mortandad	2023	1	11/16/2022	32.6	1200.6	1233.2	46.41	150.00	6.25
R-46	Mortandad			11/15/2022	20.7	1340	1360.7	49.31	224.00	4.48
R-60	Mortandad			11/21/2022	20.9	1330	1350.9	38.02	115.17	3.49

[a] gpm = Gallons per minute.

[b] S1 = Screen 1.

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

Location	Watershed	Sampling Event		Observation/Deviation	Comments
		Monitoring Year	Quarter		
R-14 S1[a]	Mortandad	2023	1	3.23 CVs[b] purged	Low Level Tritium data is now available for this location
R-46	Mortandad			4.54 CVs purged	Extra 1.54 CVs purged to allow DO and pH to stabilize; Low Level Tritium data is now available for this location
R-60	Mortandad			3.03 CVs purged	Pumped into screen and allowed recharge before sampling; Low Level Tritium data is now available for this location

[a] S1 = Screen 1.

[b] CVs = Casing volumes.

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

Standard Type	Standard Source	Description	Groundwater
New Mexico			
Standard	20.6.2.3103 New Mexico Administrative Code (NMWQCC groundwater standard)	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 MCLs[c]	X
Risk-Human	EPA regional screening levels	EPA regional screening levels for tap water[d]	X
DOE			
Standard	DOE Order 458.1	DOE[e] 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, 602274; NMED 2021, 701849).

[c] EPA maximum contaminant levels (https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations).

[d] EPA generic screening levels (http://www.epa.gov/risk/risk-based-screening-table-generic-tables).

[e] DOE = DOE-derived concentration technical standards (https:/www.directives.doe.gov/directives-documents/400-series/0458.1-border-chg4-ltdchg).

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						
Azobenzene	2.95–3.12	SW-846:8270E	1.2	µg/L	EPA TAP SCRN LVL[a]	GELC[b]
Benzidine	3.84–4.05	SW-846:8270E	0.00109	µg/L	NMED A1 TAP SCRN LVL[c]	GELC
Benzo(a)anthracene	0.295–0.312	SW-846:8270E	0.12	µg/L	NMED A1 TAP SCRN LVL	GELC
Benzo(a)pyrene	0.295–0.312	SW-846:8270E	0.2	µg/L	NM GW STD[d]	GELC
Bis(2-chloroethyl)ether	2.95–3.12	SW-846:8270E	0.137	µg/L	NMED A1 TAP SCRN LVL	GELC
Dibenz(a,h)anthracene	0.295–0.312	SW-846:8270E	0.0343	µg/L	NMED A1 TAP SCRN LVL	GELC

Table 4.2-1 (continued)

Analyte Name	MDL	Analytical Method	Screening Value	Unit	Screening-Value Type	Lab ID
Dichlorobenzidine[3,3'-]	2.95–3.12	SW-846:8270E	1.25	µg/L	NMED A1 TAP SCRN LVL	GELC
Dinitro-2-methylphenol[4,6-]	2.95–3.12	SW-846:8270E	1.52	µg/L	NMED A1 TAP SCRN LVL	GELC
Dinitrotoluene[2,4-]	2.95–3.12	SW-846:8270E	2.37	µg/L	NMED A1 TAP SCRN LVL	GELC
Dinitrotoluene[2,6-]	2.95–3.12	SW-846:8270E	0.485	µg/L	NMED A1 TAP SCRN LVL	GELC
Hexachlorobenzene	2.95–3.12	SW-846:8270E	1	µg/L	EPA MCL[e]	GELC
Hexachlorobutadiene	2.95–3.12	SW-846:8270E	1.39	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitrobenzene	2.95–3.12	SW-846:8270E	1.4	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitrosodiethylamine[N-]	2.95–3.12	SW-846:8270E	0.00167	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitrosodimethylamine[N-]	2.95–3.12	SW-846:8270E	0.00491	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitroso-di-n-butylamine[N-]	2.95–3.12	SW-846:8270E	0.0273	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitroso-di-n-propylamine[N-]	2.95–3.12	SW-846:8270E	0.11	µg/L	EPA TAP SCRN LVL	GELC
Nitrosopyrrolidine[N-]	2.95–3.12	SW-846:8270E	0.37	µg/L	NMED A1 TAP SCRN LVL	GELC
Pentachlorophenol	2.95–3.12	SW-846:8270E	1	µg/L	NM GW STD	GELC
Tetrachlorobenzene[1,2,4,5]	2.95–3.12	SW-846:8270E	1.66	µg/L	NMED A1 TAP SCRN LVL	GELC
Volatile Organic Compounds						
Acrolein	1.67	SW-846:8260D	0.0415	µg/L	NMED A1 TAP SCRN LVL	GELC
Acrylonitrile	1.67	SW-846:8260D	0.523	µg/L	NMED A1 TAP SCRN LVL	GELC
Chloro-1,3-butadiene[2-]	0.333	SW-846:8260D	0.187	µg/L	NMED A1 TAP SCRN LVL	GELC
Dibromo-3-Chloropropane[1,2-]	0.333	SW-846:8260D	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.333	SW-846:8260D	0.05	µg/L	NM GW STD	GELC
Dibromomethane	0.333	SW-846:8260D	0.0747	µg/L	NMED A1 TAP SCRN LVL	GELC
Dioxane[1,4-]	16.7	SW-846:8260D	4.59	µg/L	NMED A1 TAP SCRN LVL	GELC
Trichloropropane[1,2,3-]	0.333	SW-846:8260D	0.00835	µg/L	NMED A1 TAP SCRN LVL	GELC

Note: This table is applicable to samples reported in this PMR and includes historical data statistics from 10 yr before the earliest start date in the PMR.

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

[b] GELC = GEL Laboratories, LLC, Division of the GEL Group, Inc., Charleston, SC.

[c] NMED A1 TAP SCRN LVL = New Mexico Environment Department screening level for tap water.

[d] NM GW STD = NMWQCC groundwater standard.

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

Table 4.2-2
Target Analytes with Screening Values Within the MDL Range

Analyte Name	MDL	Analytical Method	Screening Value	Unit	Screening-Value Type	Lab ID
Semivolatile Organic Compounds						
Atrazine	2.95–3.12	SW-846:8270E	3	µg/L	NM GW STD[a]	GELC[b]
Pentachlorobenzene	2.95–3.12	SW-846:8270E	3.07	µg/L	NMED A1 TAP SCRN LVL[c]	GELC

Notes: This table is applicable to samples reported in this PMR and includes historical data statistics from 10 yr before the earliest start date in the PMR. For this table, the lower value of the MDL range is below the screening value, while the upper value is equal to or above the screening value.

[a] NM GW STD = NMWQCC groundwater standard.

[b] GELC = GEL Laboratories, LLC, Division of the GEL Group, Inc., Charleston, SC.

[c] NMED A1 TAP SCRN LVL = New Mexico Environment Department screening level for tap water.

Appendix A

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

Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Units	Field Sample ID
R-14 S1[a]	1200.6	11/09/2018	WG[b]	Dissolved Oxygen	5.8	mg/L	CAMO-19-164050
R-14 S1	1200.6	11/12/2019	WG	Dissolved Oxygen	5.91	mg/L	CAMO-20-189303
R-14 S1	1200.6	11/18/2020	WG	Dissolved Oxygen	5.67	mg/L	CAMO-21-210587
R-14 S1	1200.6	11/17/2021	WG	Dissolved Oxygen	5.69	mg/L	CAMO-22-236482
R-14 S1	1200.6	11/16/2022	WG	Dissolved Oxygen	5.89	mg/L	CAMO-23-261133
R-14 S1	1200.6	11/09/2018	WG	Flow (in gpm[c])	7.14	gpm	CAMO-19-164050
R-14 S1	1200.6	11/12/2019	WG	Flow (in gpm)	6.67	gpm	CAMO-20-189303
R-14 S1	1200.6	11/18/2020	WG	Flow (in gpm)	6.98	gpm	CAMO-21-210587
R-14 S1	1200.6	11/17/2021	WG	Flow (in gpm)	7	gpm	CAMO-22-236482
R-14 S1	1200.6	11/16/2022	WG	Flow (in gpm)	6.25	gpm	CAMO-23-261133
R-14 S1	1200.6	11/09/2018	WG	Oxidation-Reduction Potential	167.6	mV	CAMO-19-164050
R-14 S1	1200.6	11/12/2019	WG	Oxidation-Reduction Potential	133.9	mV	CAMO-20-189303
R-14 S1	1200.6	11/18/2020	WG	Oxidation-Reduction Potential	139.8	mV	CAMO-21-210587
R-14 S1	1200.6	11/17/2021	WG	Oxidation-Reduction Potential	139.9	mV	CAMO-22-236482
R-14 S1	1200.6	11/16/2022	WG	Oxidation-Reduction Potential	52.9	mV	CAMO-23-261133
R-14 S1	1200.6	11/09/2018	WG	pH	8.18	SU[d]	CAMO-19-164050
R-14 S1	1200.6	11/12/2019	WG	pH	8.03	SU	CAMO-20-189303
R-14 S1	1200.6	11/18/2020	WG	pH	8.27	SU	CAMO-21-210587
R-14 S1	1200.6	11/17/2021	WG	pH	8.25	SU	CAMO-22-236482
R-14 S1	1200.6	11/16/2022	WG	pH	8.04	SU	CAMO-23-261133
R-14 S1	1200.6	11/09/2018	WG	Specific Conductance	127.4	µS/cm	CAMO-19-164050
R-14 S1	1200.6	11/12/2019	WG	Specific Conductance	124.9	µS/cm	CAMO-20-189303
R-14 S1	1200.6	11/18/2020	WG	Specific Conductance	126.9	µS/cm	CAMO-21-210587
R-14 S1	1200.6	11/17/2021	WG	Specific Conductance	126.6	µS/cm	CAMO-22-236482
R-14 S1	1200.6	11/16/2022	WG	Specific Conductance	128.8	µS/cm	CAMO-23-261133
R-14 S1	1200.6	11/09/2018	WG	Temperature	22.8	deg C	CAMO-19-164050
R-14 S1	1200.6	11/12/2019	WG	Temperature	23	deg C	CAMO-20-189303
R-14 S1	1200.6	11/18/2020	WG	Temperature	22.9	deg C	CAMO-21-210587

Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Units	Field Sample ID
R-14 S1	1200.6	11/17/2021	WG	Temperature	22.3	deg C	CAMO-22-236482
R-14 S1	1200.6	11/16/2022	WG	Temperature	22.1	deg C	CAMO-23-261133
R-14 S1	1200.6	11/09/2018	WG	Turbidity	0.67	NTU[e]	CAMO-19-164050
R-14 S1	1200.6	11/12/2019	WG	Turbidity	0.35	NTU	CAMO-20-189303
R-14 S1	1200.6	11/18/2020	WG	Turbidity	0.35	NTU	CAMO-21-210587
R-14 S1	1200.6	11/17/2021	WG	Turbidity	0.52	NTU	CAMO-22-236482
R-14 S1	1200.6	11/16/2022	WG	Turbidity	2.73	NTU	CAMO-23-261133
R-46	1340.0	11/13/2018	WG	Dissolved Oxygen	6.67	mg/L	CAMO-19-164053
R-46	1340.0	11/21/2019	WG	Dissolved Oxygen	6.18	mg/L	CAMO-20-189307
R-46	1340.0	11/17/2020	WG	Dissolved Oxygen	6.5	mg/L	CAMO-21-210592
R-46	1340.0	11/16/2021	WG	Dissolved Oxygen	5.9	mg/L	CAMO-22-236486
R-46	1340.0	11/15/2022	WG	Dissolved Oxygen	5.78	mg/L	CAMO-23-261136
R-46	1340.0	11/13/2018	WG	Flow (in gpm)	5	gpm	CAMO-19-164053
R-46	1340.0	11/21/2019	WG	Flow (in gpm)	5	gpm	CAMO-20-189307
R-46	1340.0	11/17/2020	WG	Flow (in gpm)	4.84	gpm	CAMO-21-210592
R-46	1340.0	11/16/2021	WG	Flow (in gpm)	4.69	gpm	CAMO-22-236486
R-46	1340.0	11/15/2022	WG	Flow (in gpm)	4.48	gpm	CAMO-23-261136
R-46	1340.0	11/13/2018	WG	Oxidation-Reduction Potential	269.8	mV	CAMO-19-164053
R-46	1340.0	11/21/2019	WG	Oxidation-Reduction Potential	200.7	mV	CAMO-20-189307
R-46	1340.0	11/17/2020	WG	Oxidation-Reduction Potential	101	mV	CAMO-21-210592
R-46	1340.0	11/16/2021	WG	Oxidation-Reduction Potential	307.5	mV	CAMO-22-236486
R-46	1340.0	11/15/2022	WG	Oxidation-Reduction Potential	174.8	mV	CAMO-23-261136
R-46	1340.0	11/13/2018	WG	pH	7.96	SU	CAMO-19-164053
R-46	1340.0	11/21/2019	WG	pH	7.21	SU	CAMO-20-189307
R-46	1340.0	11/17/2020	WG	pH	7.92	SU	CAMO-21-210592
R-46	1340.0	11/16/2021	WG	pH	7.2	SU	CAMO-22-236486
R-46	1340.0	11/15/2022	WG	pH	6.93	SU	CAMO-23-261136
R-46	1340.0	11/13/2018	WG	Specific Conductance	121.4	µS/cm	CAMO-19-164053

Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Units	Field Sample ID
R-46	1340.0	11/21/2019	WG	Specific Conductance	120.1	µS/cm	CAMO-20-189307
R-46	1340.0	11/17/2020	WG	Specific Conductance	121.2	µS/cm	CAMO-21-210592
R-46	1340.0	11/16/2021	WG	Specific Conductance	121.1	µS/cm	CAMO-22-236486
R-46	1340.0	11/15/2022	WG	Specific Conductance	123.9	µS/cm	CAMO-23-261136
R-46	1340.0	11/13/2018	WG	Temperature	21.1	deg C	CAMO-19-164053
R-46	1340.0	11/21/2019	WG	Temperature	20.3	deg C	CAMO-20-189307
R-46	1340.0	11/17/2020	WG	Temperature	21.7	deg C	CAMO-21-210592
R-46	1340.0	11/16/2021	WG	Temperature	20.6	deg C	CAMO-22-236486
R-46	1340.0	11/15/2022	WG	Temperature	20.7	deg C	CAMO-23-261136
R-46	1340.0	11/13/2018	WG	Turbidity	0.36	NTU	CAMO-19-164053
R-46	1340.0	11/21/2019	WG	Turbidity	1.03	NTU	CAMO-20-189307
R-46	1340.0	11/17/2020	WG	Turbidity	6.33	NTU	CAMO-21-210592
R-46	1340.0	11/16/2021	WG	Turbidity	1.73	NTU	CAMO-22-236486
R-46	1340.0	11/15/2022	WG	Turbidity	0.57	NTU	CAMO-23-261136
R-60	1330.0	11/13/2018	WG	Dissolved Oxygen	5.94	mg/L	CAMO-19-164058
R-60	1330.0	11/15/2019	WG	Dissolved Oxygen	5.68	mg/L	CAMO-20-189312
R-60	1330.0	11/16/2020	WG	Dissolved Oxygen	5.7	mg/L	CAMO-21-210596
R-60	1330.0	11/15/2021	WG	Dissolved Oxygen	6.29	mg/L	CAMO-22-236490
R-60	1330.0	11/21/2022	WG	Dissolved Oxygen	6.49	mg/L	CAMO-23-261139
R-60	1330.0	11/13/2018	WG	Flow (in gpm)	3.61	gpm	CAMO-19-164058
R-60	1330.0	11/15/2019	WG	Flow (in gpm)	2.48	gpm	CAMO-20-189312
R-60	1330.0	11/16/2020	WG	Flow (in gpm)	2.61	gpm	CAMO-21-210596
R-60	1330.0	11/15/2021	WG	Flow (in gpm)	2.78	gpm	CAMO-22-236490
R-60	1330.0	11/21/2022	WG	Flow (in gpm)	3.49	gpm	CAMO-23-261139
R-60	1330.0	11/13/2018	WG	Oxidation-Reduction Potential	237	mV	CAMO-19-164058
R-60	1330.0	11/15/2019	WG	Oxidation-Reduction Potential	97.8	mV	CAMO-20-189312
R-60	1330.0	11/16/2020	WG	Oxidation-Reduction Potential	96.7	mV	CAMO-21-210596
R-60	1330.0	11/15/2021	WG	Oxidation-Reduction Potential	207.2	mV	CAMO-22-236490

Location ID	Screen Depth	Measurement Date	PMR Sample Type	Field Parameter	Field Measurement	Measurement Units	Field Sample ID
R-60	1330.0	11/21/2022	WG	Oxidation-Reduction Potential	243	mV	CAMO-23-261139
R-60	1330.0	11/13/2018	WG	pH	8.23	SU	CAMO-19-164058
R-60	1330.0	11/15/2019	WG	pH	8.19	SU	CAMO-20-189312
R-60	1330.0	11/16/2020	WG	pH	8.21	SU	CAMO-21-210596
R-60	1330.0	11/15/2021	WG	pH	8.14	SU	CAMO-22-236490
R-60	1330.0	11/21/2022	WG	pH	7.99	SU	CAMO-23-261139
R-60	1330.0	11/13/2018	WG	Specific Conductance	126.4	µS/cm	CAMO-19-164058
R-60	1330.0	11/15/2019	WG	Specific Conductance	123.1	µS/cm	CAMO-20-189312
R-60	1330.0	11/16/2020	WG	Specific Conductance	124	µS/cm	CAMO-21-210596
R-60	1330.0	11/15/2021	WG	Specific Conductance	124.2	µS/cm	CAMO-22-236490
R-60	1330.0	11/21/2022	WG	Specific Conductance	123.5	µS/cm	CAMO-23-261139
R-60	1330.0	11/13/2018	WG	Temperature	22.6	deg C	CAMO-19-164058
R-60	1330.0	11/15/2019	WG	Temperature	23.4	deg C	CAMO-20-189312
R-60	1330.0	11/16/2020	WG	Temperature	23	deg C	CAMO-21-210596
R-60	1330.0	11/15/2021	WG	Temperature	23.3	deg C	CAMO-22-236490
R-60	1330.0	11/21/2022	WG	Temperature	15.7	deg C	CAMO-23-261139
R-60	1330.0	11/13/2018	WG	Turbidity	2.09	NTU	CAMO-19-164058
R-60	1330.0	11/15/2019	WG	Turbidity	0.9	NTU	CAMO-20-189312
R-60	1330.0	11/16/2020	WG	Turbidity	0.42	NTU	CAMO-21-210596
R-60	1330.0	11/15/2021	WG	Turbidity	0.9	NTU	CAMO-22-236490
R-60	1330.0	11/21/2022	WG	Turbidity	2.43	NTU	CAMO-23-261139

[a] S1 = Screen 1.

[b] WG = Groundwater.

[c] gpm = Gallons per minute.

[d] SU = Standard units.

[e] NTU = Nephelometric turbidity units.

Appendix B

Groundwater Elevation Measurements
(on CD included with this document)

N3B RECORDS	
Media Information Page	
This is a placeholder page for a record that cannot be uploaded or would lose meaning or content if uploaded. The record can be requested through regdocs@em-la.doe.gov	
Document Date: 11/3/2023	**EM ID number:** 702944-01
Document Title: Appendix B Submittal of the 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1, and the Response to the New Mexico Environment Department Review of the 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD	**Software and version required to read media:** Adobe Acrobat 9.0
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Appendix C

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

The following pages provide lists of (1) acronyms, abbreviations, and symbols; (2) analytical laboratory qualifier codes; (3) validation qualifiers; and (4) background value sources that may be used in Appendix C. Please note that these comprehensive lists include terms used in prior periodic monitoring reports. This periodic monitoring report may not include all of the terms in the following 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	1,3-dinitro-5-nitroso-1,3,5-triazinane
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
HRGC/HRMS	high-resolution gas chromatography/high-resolution mass spectrometry
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	1-nitroso-3,5-dinitro-1,3,5-triazine
MS	matrix spike
MSD	matrix spike duplicate
N3B	Newport News Nuclear BWXT-Los Alamos, LLC
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	Royal Demolition Explosive
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

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Miscellaneous (continued)	
SU	standard unit
TCDD	tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzofuran
TDS	total dissolved solids
TPH-DRO	total petroleum hydrocarbons—diesel range organics
TNX	1,3,5-trinitroso-1,3,5-triazine
TPU	total propagated uncertainty
UAL	upper acceptance limit
Sample Types	
WG	groundwater
WS	base flow
Field Prep Codes	
F	filtered
UF	unfiltered
Analysis Type Code	
DL	dilution
INIT	initial
RE	reanalysis
REDL	reanalysis dilution
REP	replicate of the initial analysis
RI	reissue
TOTC	calculated total
Sample Purpose	
FD	field duplicate
REG	regular
Analytical Method Category	
General Chemistry	general chemistry
HEXP	high explosives
HRGC/HRMS	high-resolution gas chromatography/high-resolution mass spectrometry
INORGANIC	inorganic
LCMS/MS	liquid chromatography [dual] mass spectrometry
LCMS/MS HIGH EXPLOSIVES	liquid chromatography [dual] mass spectrometry for high explosives
LCMS/MS PERCHLORATE	liquid chromatography [dual] mass spectrometry for perchlorate
LEGACY	legacy
PCBCONGENERS	PCB congeners
PESTPCB	pesticides/PCBs
RAD	radiological

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Analytical Method Category (continued)	
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
VOC	volatile organic compound
Detect Flag and Best Value Flag Codes	
N	no
Y	yes
Laboratory Codes	
AAL	Assaigai Analytical Laboratories, Inc.
ACCU	Acculabs Technologies, Inc.
ALTC	Alta Analytical Laboratory, Inc.
ALEUT	ARS Aleut Analytical, LLC.
ARSL	American Radiation Services, Inc.
ATICO	Analytical Technologies, Inc., Historical code one
BABC	Edward S. Babcock & Sons, Inc., Riverside, CA
BAL	Brooks Applied Labs
CFA	Cape Fear Analytical, LLC, Wilmington, NC, Affiliate of GEL Laboratories, LLC, Charleston, SC
C-INC	Isotope and Nuclear Chemistry (LANL)
COAST	Coastal Science Laboratories, Inc.
CST	Chemical Sciences and Technology (LANL)
DRI	Desert Research Institute
EES6	Environmental Sciences (LANL)
GELC/GEL	GEL Laboratories, LLC, Division of the GEL Group, Inc., Charleston, SC
GEO	Geochron Laboratories
HUFFMAN	Huffman Laboratories, Inc.
KA	KEMRON Environmental Services, Inc.
LVLI	Lionville Laboratory, Inc.
NA	not available
PARA	ALS Environmental, Ft. Collins, CO
RECRAP	RECRA Labnet, Lionville, PA
RFWC	Weston Solutions (formerly Roy F. Weston), West Chester, PA
SGSW	Paradigm Environmental Services, Inc.
SHEALY	Shealy Labs
SILENS	Stable Isotopes Laboratory
STL2	Severn Trent Laboratories, Inc., Richland Historical
STLA	Severn Trent Laboratories, Inc., Los Angeles
STR	Severn Trent Laboratories, Inc., Richland

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Lab Codes (continued)	
STSL	Severn Trent Laboratories, Inc., St. Louis
SwRI	Southwest Research Institute
UAZ	University of Arizona
UIL	University of Illinois
UMTL	University of Miami Tritium Lab
UNK	Unknown (from historical Environmental Remediation Database migration)

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

Analytical Laboratory Qualifiers

Qualifier	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).
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.
E	(Organic) Analyte exceeded the concentration range. (Inorganic) The serial dilution was exceeded.
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*	(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.
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*	(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.
J	(Organic/Inorganic)—The associated numerical value is an estimated quantity.
N	(Inorganic)—Spiked sample recovery was not within control limits.
P	Percent difference between the results on the two columns during the analysis differed by more than 40%.
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.

Analytical Laboratory Qualifiers (continued)

Qualifier	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.
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	Consult case narrative, data summary package, or project manager concerning the qualifier.

Validation Qualifiers

Qualifier	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 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.

Background Values

Background values in Table C-1 are background levels where available, as reported in the “Groundwater Background Investigation Report, Revision 5” (LANL 2016, 601920).

REFERENCE

The following reference list includes documents cited in this appendix. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by Los Alamos National Laboratory’s (the 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).

LANL (Los Alamos National Laboratory), October 27, 2016. “Groundwater Background Investigation Report, Revision 5,” Los Alamos National Laboratory document LA-UR-16-27907, Los Alamos, New Mexico. (LANL 2016, 601920)

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	2,4-Diamino-6-nitrotoluene	6629-29-4	N	0.479	–	–	–	–	0.479	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	2,6-Diamino-4-nitrotoluene	59229-75-3	N	0.479	–	–	–	–	0.479	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	3,5-Dinitroaniline	618-87-1	N	0.287	–	–	–	–	0.287	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acetone	67-64-1	N	4.23	14100	–	–	–	1.74	µg/L	Y	BJ	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acetonitrile	75-05-8	N	8.33	130	–	–	–	8.33	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	–	–	–	–	0.01	SU	Y	H	J	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acrolein	107-02-8	N	1.67	0.0415	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acrylonitrile	107-13-1	N	1.67	0.523	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1.45	–	–	–	–	1.45	mg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.2	–	72.9	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Aluminum	Al	N	68	5000	–	–	–	68	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Amino-2,6-dinitrotoluene[4-]	19406-51-0	N	0.0766	1.9	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Amino-4,6-dinitrotoluene[2-]	35572-78-2	N	0.0766	1.9	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.017	–	–	–	–	0.017	mg/L	Y	U	UJ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Antimony	Sb	N	1	6	–	–	–	1	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Arsenic	As	N	2	10	–	–	–	2	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	23.5	2000	38.1	–	–	1	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Benzene	71-43-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Beryllium	Be	N	1	4	–	–	–	1	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Boron	B	N	15	750	–	–	–	15	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Bromide	Br(-1)	N	0.067	–	–	–	–	0.067	mg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromobenzene	108-86-1	N	0.333	62	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromochloromethane	74-97-5	N	0.333	83	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromodichloromethane	75-27-4	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromoform	75-25-2	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromomethane	74-83-9	N	0.337	7.54	–	–	–	0.337	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butanol[1-]	71-36-3	N	21.1	2000	–	–	–	21.1	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butanone[2-]	78-93-3	N	1.67	5560	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[n-]	104-51-8	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[sec-]	135-98-8	N	0.333	2000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[tert-]	98-06-6	N	0.333	690	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Cadmium	Cd	N	0.3	5	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.91	–	17.03	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Carbon Disulfide	75-15-0	N	1.67	810	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Carbon Tetrachloride	56-23-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Chloride	Cl(-1)	Y	1.65	250	2.7	–	–	0.067	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloro-1,3-butadiene[2-]	126-99-8	N	0.333	0.187	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloro-1-propene[3-]	107-05-1	N	1.67	7.3	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorobenzene	108-90-7	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorodibromomethane	124-48-1	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloroethane	75-00-3	N	0.333	20900	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloroform	67-66-3	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloromethane	74-87-3	N	0.333	20.3	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorotoluene[2-]	95-49-8	N	0.333	233	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorotoluene[4-]	106-43-4	N	0.333	250	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	N	6.77	50	7.48	–	–	3	µg/L	Y	J	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Cobalt	Co	N	1	50	–	–	–	1	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Copper	Cu	N	3	1000	–	–	–	3	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	Inorganic	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.00167	0.2	–	–	–	0.00167	mg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromo-3-Chloropropane[1,2-]	96-12-8	N	0.333	0.2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromoethane[1,2-]	106-93-4	N	0.333	0.05	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromomethane	74-95-3	N	0.333	8	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,2-]	95-50-1	N	0.333	600	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,3-]	541-73-1	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,4-]	106-46-7	N	0.333	75	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorodifluoromethane	75-71-8	N	0.355	197	–	–	–	0.355	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethane[1,1-]	75-34-3	N	0.333	25	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethane[1,2-]	107-06-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[1,1-]	75-35-4	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[cis/trans-1,2-]	540-59-0	N	0.667	–	–	–	–	0.667	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[cis-1,2-]	156-59-2	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[trans-1,2-]	156-60-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[1,2-]	78-87-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[1,3-]	142-28-9	N	0.333	370	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[2,2-]	594-20-7	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[1,1-]	563-58-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[cis-1,3-]	10061-01-5	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[trans-1,3-]	10061-02-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Diethyl Ether	60-29-7	N	0.333	3930	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrobenzene[1,3-]	99-65-0	N	0.0766	2	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,4-]	121-14-2	N	0.0766	2.37	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,6-]	606-20-2	N	0.0766	0.485	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Ethyl Methacrylate	97-63-2	N	1.67	455	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Ethylbenzene	100-41-4	N	0.333	700	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Fluoride	F(-1)	Y	0.257	1.6	0.377	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	39.6	–	67.1	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Hexachlorobutadiene	87-68-3	N	0.333	1.39	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Hexanone[2-]	591-78-6	N	1.67	38	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	HMX	2691-41-0	N	0.0766	1000	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Iodomethane	74-88-4	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Iron	Fe	Y	34.5	1000	–	–	–	30	µg/L	Y	J	J	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isobutyl alcohol	78-83-1	N	16.7	5910	–	–	–	16.7	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isopropylbenzene	98-82-8	N	0.333	447	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isopropyltoluene[4-]	99-87-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Lead	Pb	N	0.5	15	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.62	–	4.18	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Manganese	Mn	N	2	200	–	–	–	2	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methacrylonitrile	126-98-7	N	1.67	1.91	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl Methacrylate	80-62-6	N	1.67	1390	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl tert-Butyl Ether	1634-04-4	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl-2-pentanone[4-]	108-10-1	N	1.67	1240	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methylene Chloride	75-09-2	N	0.5	5	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.23	1000	2.5	–	–	0.2	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Naphthalene	91-20-3	N	0.333	1.17	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Nickel	Ni	Y	1.39	200	2.9	–	–	0.6	µg/L	Y	J	J	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.329	10	0.769	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrobenzene	98-95-3	N	0.0766	1.4	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[2-]	88-72-2	N	0.0786	3.14	–	–	–	0.0786	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[3-]	99-08-1	N	0.0766	1.74	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[4-]	99-99-0	N	0.144	42.7	–	–	–	0.144	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.265	13.8	0.414	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS	EPA:537M	Perfluorohexanesulfonic acid	355-46-4	N	0.593	401	–	–	–	0.593	ng/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS	EPA:537M	Perfluorooctanesulfonic acid	1763-23-1	N	0.718	60	–	–	–	0.718	ng/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS	EPA:537M	Perfluorooctanoic acid	335-67-1	N	0.718	60	–	–	–	0.718	ng/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	PETN	78-11-5	N	0.0958	170	–	–	–	0.0958	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	2.17	–	2.39	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Propionitrile	107-12-0	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Propylbenzene[1-]	103-65-1	N	0.333	660	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	Y	0.192	9.66	–	–	–	0.0766	µg/L	Y	J	J	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Selenium	Se	N	1.5	50	–	–	–	1.5	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	81.4	–	81.9	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Silver	Ag	N	0.3	50	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	10.9	–	16	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	–	–	–	–	1	µS/cm	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	48	11800	157	–	–	1	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Styrene	100-42-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	600	4.59	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	TATB	3058-38-6	N	0.287	–	–	–	–	0.287	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethane[1,1,1,2-]	630-20-6	N	0.333	5.74	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethane[1,1,2,2-]	79-34-5	N	0.333	10	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethene	127-18-4	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Tetryl	479-45-8	N	0.0766	39.4	–	–	–	0.0766	µg/L	Y	U	UJ	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Thallium	Tl	N	0.6	2	–	–	–	0.6	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Tin	Sn	N	1	12000	–	–	–	1	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Toluene	108-88-3	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:160.1	Total Dissolved Solids	TDS	Y	136	1000	161	–	–	2.38	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	General Chemistry	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.033	–	–	–	–	0.033	mg/L	Y	U	UJ	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	General Chemistry	SW-846:9060A	Total Organic Carbon	TOC	Y	0.677	–	–	–	–	0.33	mg/L	Y	J	J	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemistry	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.311	–	–	–	–	0.02	mg/L	Y	–	J+	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloro-1,2,2-trifluoroethane[1,1,2-]	76-13-1	N	2.98	55000	–	–	–	2.98	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorobenzene[1,2,3-]	87-61-6	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorobenzene[1,2,4-]	120-82-1	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethane[1,1,1-]	71-55-6	N	0.333	200	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethane[1,1,2-]	79-00-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethene	79-01-6	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorofluoromethane	75-69-4	N	0.333	1140	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloropropane[1,2,3-]	96-18-4	N	0.333	0.00835	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trimethylbenzene[1,2,4-]	95-63-6	N	0.333	56	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trimethylbenzene[1,3,5-]	108-67-8	N	0.5	60	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Trinitrobenzene[1,3,5-]	99-35-4	N	0.0766	590	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Trinitrotoluene[2,4,6-]	118-96-7	N	0.0766	9.8	–	–	–	0.0766	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Tris (o-cresyl) phosphate	78-30-8	N	0.287	–	–	–	–	0.287	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	RAD	Generic:Low_ Level_Tritium	Tritium	H-3	N	1.484	20000	–	0.813	2.559	–	pCi/L	Y	U	UJ	N3B-2023-459	CAMO-23-261133	ARSL
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.659	30	1.19	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	6.44	63.1	11.4	–	–	1	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Vinyl acetate	108-05-4	N	1.67	409	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Vinyl Chloride	75-01-4	N	0.333	2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Xylene[1,2-]	95-47-6	N	0.333	193	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	0.5	193	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Zinc	Zn	N	3.3	10000	–	–	–	3.3	µg/L	Y	U	U	N3B-2023-457	CAMO-23-261134	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	2,4-Diamino-6-nitrotoluene	6629-29-4	N	0.511	–	–	–	–	0.511	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	2,4-Diamino-6-nitrotoluene	6629-29-4	N	0.511	–	–	–	–	0.511	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	2,6-Diamino-4-nitrotoluene	59229-75-3	N	0.511	–	–	–	–	0.511	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	2,6-Diamino-4-nitrotoluene	59229-75-3	N	0.511	–	–	–	–	0.511	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	3,5-Dinitroaniline	618-87-1	N	0.307	–	–	–	–	0.307	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	3,5-Dinitroaniline	618-87-1	N	0.306	–	–	–	–	0.306	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acetone	67-64-1	N	4.77	14100	–	–	–	1.74	µg/L	Y	BJ	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Acetone	67-64-1	N	2.57	14100	–	–	–	1.74	µg/L	Y	BJ	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acetonitrile	75-05-8	N	8.33	130	–	–	–	8.33	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Acetonitrile	75-05-8	N	8.33	130	–	–	–	8.33	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	–	–	–	–	0.01	SU	Y	H	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.4	–	–	–	–	0.01	SU	Y	H	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acrolein	107-02-8	N	1.67	0.0415	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Acrolein	107-02-8	N	1.67	0.0415	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acrylonitrile	107-13-1	N	1.67	0.523	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Acrylonitrile	107-13-1	N	1.67	0.523	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1.45	–	–	–	–	1.45	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1.45	–	–	–	–	1.45	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.8	–	72.9	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.6	–	72.9	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Aluminum	Al	N	68	5000	–	–	–	68	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Aluminum	Al	N	68	5000	–	–	–	68	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Amino-2,6-dinitrotoluene[4-]	19406-51-0	N	0.0818	1.9	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Amino-2,6-dinitrotoluene[4-]	19406-51-0	N	0.0817	1.9	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Amino-4,6-dinitrotoluene[2-]	35572-78-2	N	0.0818	1.9	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Amino-4,6-dinitrotoluene[2-]	35572-78-2	N	0.0817	1.9	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0869	–	–	–	–	0.017	mg/L	Y	–	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.038	–	–	–	–	0.017	mg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Antimony	Sb	N	1	6	–	–	–	1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Antimony	Sb	N	1	6	–	–	–	1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Arsenic	As	N	2	10	–	–	–	2	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Arsenic	As	N	2	10	–	–	–	2	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	21.7	2000	38.1	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Barium	Ba	Y	21.4	2000	38.1	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Benzene	71-43-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Benzene	71-43-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Beryllium	Be	N	1	4	–	–	–	1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Beryllium	Be	N	1	4	–	–	–	1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Boron	B	N	15	750	–	–	–	15	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Boron	B	N	15	750	–	–	–	15	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Bromide	Br(-1)	N	0.067	–	–	–	–	0.067	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:300.0	Bromide	Br(-1)	N	0.067	–	–	–	–	0.067	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromobenzene	108-86-1	N	0.333	62	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Bromobenzene	108-86-1	N	0.333	62	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromochloromethane	74-97-5	N	0.333	83	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Bromochloromethane	74-97-5	N	0.333	83	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromodichloromethane	75-27-4	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Bromodichloromethane	75-27-4	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromoform	75-25-2	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Bromoform	75-25-2	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromomethane	74-83-9	N	0.337	7.54	–	–	–	0.337	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Bromomethane	74-83-9	N	0.337	7.54	–	–	–	0.337	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butanol[1-]	71-36-3	N	21.1	2000	–	–	–	21.1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Butanol[1-]	71-36-3	N	21.1	2000	–	–	–	21.1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butanone[2-]	78-93-3	N	1.67	5560	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Butanone[2-]	78-93-3	N	1.67	5560	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[n-]	104-51-8	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Butylbenzene[n-]	104-51-8	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[sec-]	135-98-8	N	0.333	2000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Butylbenzene[sec-]	135-98-8	N	0.333	2000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[tert-]	98-06-6	N	0.333	690	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Butylbenzene[tert-]	98-06-6	N	0.333	690	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Cadmium	Cd	N	0.3	5	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Cadmium	Cd	N	0.3	5	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.26	–	17.03	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.13	–	17.03	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Carbon Disulfide	75-15-0	N	1.67	810	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Carbon Disulfide	75-15-0	N	1.67	810	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Carbon Tetrachloride	56-23-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Carbon Tetrachloride	56-23-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Chloride	Cl(-1)	Y	1.7	250	2.7	–	–	0.067	mg/L	Y	–	J+	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:300.0	Chloride	Cl(-1)	Y	1.69	250	2.7	–	–	0.067	mg/L	Y	–	J+	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloro-1,3-butadiene[2-]	126-99-8	N	0.333	0.187	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chloro-1,3-butadiene[2-]	126-99-8	N	0.333	0.187	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloro-1-propene[3-]	107-05-1	N	1.67	7.3	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chloro-1-propene[3-]	107-05-1	N	1.67	7.3	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorobenzene	108-90-7	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chlorobenzene	108-90-7	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorodibromomethane	124-48-1	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chlorodibromomethane	124-48-1	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloroethane	75-00-3	N	0.333	20900	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chloroethane	75-00-3	N	0.333	20900	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloroform	67-66-3	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chloroform	67-66-3	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloromethane	74-87-3	N	0.333	20.3	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chloromethane	74-87-3	N	0.333	20.3	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorotoluene[2-]	95-49-8	N	0.333	233	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chlorotoluene[2-]	95-49-8	N	0.333	233	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorotoluene[4-]	106-43-4	N	0.333	250	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Chlorotoluene[4-]	106-43-4	N	0.333	250	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.29	50	7.48	–	–	3	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.1	50	7.48	–	–	3	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Cobalt	Co	Y	1	50	–	–	–	1	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Cobalt	Co	Y	1.03	50	–	–	–	1	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Copper	Cu	N	3	1000	–	–	–	3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Copper	Cu	N	3	1000	–	–	–	3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	Inorganic	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.00167	0.2	–	–	–	0.00167	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	Inorganic	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.00167	0.2	–	–	–	0.00167	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromo-3-Chloropropane[1,2-]	96-12-8	N	0.333	0.2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dibromo-3-Chloropropane[1,2-]	96-12-8	N	0.333	0.2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromoethane[1,2-]	106-93-4	N	0.333	0.05	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dibromoethane[1,2-]	106-93-4	N	0.333	0.05	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromomethane	74-95-3	N	0.333	8	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dibromomethane	74-95-3	N	0.333	8	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,2-]	95-50-1	N	0.333	600	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichlorobenzene[1,2-]	95-50-1	N	0.333	600	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,3-]	541-73-1	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichlorobenzene[1,3-]	541-73-1	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,4-]	106-46-7	N	0.333	75	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichlorobenzene[1,4-]	106-46-7	N	0.333	75	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorodifluoromethane	75-71-8	N	0.355	197	–	–	–	0.355	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichlorodifluoromethane	75-71-8	N	0.355	197	–	–	–	0.355	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethane[1,1-]	75-34-3	N	0.333	25	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloroethane[1,1-]	75-34-3	N	0.333	25	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethane[1,2-]	107-06-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloroethane[1,2-]	107-06-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[1,1-]	75-35-4	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloroethene[1,1-]	75-35-4	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[cis/trans-1,2-]	540-59-0	N	0.667	–	–	–	–	0.667	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloroethene[cis/trans-1,2-]	540-59-0	N	0.667	–	–	–	–	0.667	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[cis-1,2-]	156-59-2	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloroethene[cis-1,2-]	156-59-2	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[trans-1,2-]	156-60-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloroethene[trans-1,2-]	156-60-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[1,2-]	78-87-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloropropane[1,2-]	78-87-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[1,3-]	142-28-9	N	0.333	370	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloropropane[1,3-]	142-28-9	N	0.333	370	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[2,2-]	594-20-7	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloropropane[2,2-]	594-20-7	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[1,1-]	563-58-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloropropene[1,1-]	563-58-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[cis-1,3-]	10061-01-5	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloropropene[cis-1,3-]	10061-01-5	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[trans-1,3-]	10061-02-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Dichloropropene[trans-1,3-]	10061-02-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Diethyl Ether	60-29-7	N	0.333	3930	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Diethyl Ether	60-29-7	N	0.333	3930	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrobenzene[1,3-]	99-65-0	N	0.0818	2	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Dinitrobenzene[1,3-]	99-65-0	N	0.0817	2	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,4-]	121-14-2	N	0.0818	2.37	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,4-]	121-14-2	N	0.0817	2.37	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,6-]	606-20-2	N	0.0818	0.485	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,6-]	606-20-2	N	0.0817	0.485	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Ethyl Methacrylate	97-63-2	N	1.67	455	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Ethyl Methacrylate	97-63-2	N	1.67	455	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Ethylbenzene	100-41-4	N	0.333	700	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Ethylbenzene	100-41-4	N	0.333	700	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Fluoride	F(-1)	Y	0.23	1.6	0.377	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:300.0	Fluoride	F(-1)	Y	0.231	1.6	0.377	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	36.5	–	67.1	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SM:A2340B	Hardness	Hardness	Y	35.9	–	67.1	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Hexachlorobutadiene	87-68-3	N	0.333	1.39	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Hexachlorobutadiene	87-68-3	N	0.333	1.39	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Hexanone[2-]	591-78-6	N	1.67	38	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Hexanone[2-]	591-78-6	N	1.67	38	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	HMX	2691-41-0	N	0.0818	1000	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	HMX	2691-41-0	N	0.0817	1000	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Iodomethane	74-88-4	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Iodomethane	74-88-4	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Iron	Fe	N	30	1000	–	–	–	30	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Iron	Fe	N	30	1000	–	–	–	30	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isobutyl alcohol	78-83-1	N	16.7	5910	–	–	–	16.7	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Isobutyl alcohol	78-83-1	N	16.7	5910	–	–	–	16.7	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isopropylbenzene	98-82-8	N	0.333	447	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Isopropylbenzene	98-82-8	N	0.333	447	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isopropyltoluene[4-]	99-87-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Isopropyltoluene[4-]	99-87-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Lead	Pb	N	0.5	15	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Lead	Pb	N	0.5	15	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.24	–	4.18	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.19	–	4.18	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Manganese	Mn	N	2	200	–	–	–	2	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Manganese	Mn	N	2	200	–	–	–	2	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methacrylonitrile	126-98-7	N	1.67	1.91	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Methacrylonitrile	126-98-7	N	1.67	1.91	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl Methacrylate	80-62-6	N	1.67	1390	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Methyl Methacrylate	80-62-6	N	1.67	1390	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl tert-Butyl Ether	1634-04-4	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Methyl tert-Butyl Ether	1634-04-4	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl-2-pentanone[4-]	108-10-1	N	1.67	1240	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Methyl-2-pentanone[4-]	108-10-1	N	1.67	1240	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methylene Chloride	75-09-2	N	0.5	5	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Methylene Chloride	75-09-2	N	0.5	5	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.05	1000	2.5	–	–	0.2	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	0.967	1000	2.5	–	–	0.2	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Naphthalene	91-20-3	N	0.34	1.17	–	–	–	0.333	µg/L	Y	BJ	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Naphthalene	91-20-3	N	0.333	1.17	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Nickel	Ni	N	0.6	200	2.9	–	–	0.6	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Nickel	Ni	N	0.6	200	2.9	–	–	0.6	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.352	10	0.769	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	10	0.769	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrobenzene	98-95-3	N	0.0818	1.4	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Nitrobenzene	98-95-3	N	0.0817	1.4	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[2-]	88-72-2	N	0.0839	3.14	–	–	–	0.0839	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[2-]	88-72-2	N	0.0837	3.14	–	–	–	0.0837	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[3-]	99-08-1	N	0.0818	1.74	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[3-]	99-08-1	N	0.0817	1.74	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[4-]	99-99-0	N	0.153	42.7	–	–	–	0.153	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[4-]	99-99-0	N	0.153	42.7	–	–	–	0.153	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.262	13.8	0.414	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.263	13.8	0.414	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	PETN	78-11-5	N	0.102	170	–	–	–	0.102	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	PETN	78-11-5	N	0.102	170	–	–	–	0.102	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	1.97	–	2.39	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Potassium	K	Y	1.96	–	2.39	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Propionitrile	107-12-0	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Propionitrile	107-12-0	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Propylbenzene[1-]	103-65-1	N	0.333	660	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Propylbenzene[1-]	103-65-1	N	0.333	660	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	N	0.0818	9.66	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	N	0.0817	9.66	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Selenium	Se	N	1.5	50	–	–	–	1.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Selenium	Se	N	1.5	50	–	–	–	1.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	72.9	–	81.9	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	71.7	–	81.9	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Silver	Ag	N	0.3	50	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Silver	Ag	N	0.3	50	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	9.22	–	16	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Sodium	Na	Y	9.08	–	16	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	–	–	–	–	1	µS/cm	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	–	–	–	–	1	µS/cm	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	42.4	11800	157	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Strontium	Sr	Y	41.8	11800	157	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Styrene	100-42-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Styrene	100-42-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Sulfate	SO4(-2)	Y	1.79	600	4.59	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	600	4.59	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	TATB	3058-38-6	N	0.307	–	–	–	–	0.307	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	TATB	3058-38-6	N	0.306	–	–	–	–	0.306	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethane[1,1,1,2-]	630-20-6	N	0.333	5.74	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Tetrachloroethane[1,1,1,2-]	630-20-6	N	0.333	5.74	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethane[1,1,2,2-]	79-34-5	N	0.333	10	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Tetrachloroethane[1,1,2,2-]	79-34-5	N	0.333	10	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethene	127-18-4	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Tetrachloroethene	127-18-4	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Tetryl	479-45-8	N	0.0818	39.4	–	–	–	0.0818	µg/L	Y	U	R	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Tetryl	479-45-8	N	0.0817	39.4	–	–	–	0.0817	µg/L	Y	U	R	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Thallium	Tl	N	0.6	2	–	–	–	0.6	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Thallium	Tl	N	0.6	2	–	–	–	0.6	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Tin	Sn	N	1	12000	–	–	–	1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Tin	Sn	N	1	12000	–	–	–	1	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Toluene	108-88-3	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Toluene	108-88-3	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:160.1	Total Dissolved Solids	TDS	Y	119	1000	161	–	–	2.38	mg/L	Y	–	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:160.1	Total Dissolved Solids	TDS	Y	107	1000	161	–	–	2.38	mg/L	Y	–	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	General Chemistry	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.0595	–	–	–	–	0.033	mg/L	Y	J	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	General Chemistry	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.0782	–	–	–	–	0.033	mg/L	Y	J	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	General Chemistry	SW-846:9060A	Total Organic Carbon	TOC	N	0.33	–	–	–	–	0.33	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	General Chemistry	SW-846:9060A	Total Organic Carbon	TOC	N	0.33	–	–	–	–	0.33	mg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemistry	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.619	–	–	–	–	0.02	mg/L	Y	–	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemistry	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	14.2	–	–	–	–	0.5	mg/L	Y	–	U	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloro-1,2,2-trifluoroethane[1,1,2-]	76-13-1	N	2.98	55000	–	–	–	2.98	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichloro-1,2,2-trifluoroethane[1,1,2-]	76-13-1	N	2.98	55000	–	–	–	2.98	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorobenzene[1,2,3-]	87-61-6	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichlorobenzene[1,2,3-]	87-61-6	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorobenzene[1,2,4-]	120-82-1	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichlorobenzene[1,2,4-]	120-82-1	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethane[1,1,1-]	71-55-6	N	0.333	200	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichloroethane[1,1,1-]	71-55-6	N	0.333	200	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethane[1,1,2-]	79-00-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichloroethane[1,1,2-]	79-00-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethene	79-01-6	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichloroethene	79-01-6	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorofluoromethane	75-69-4	N	0.333	1140	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichlorofluoromethane	75-69-4	N	0.333	1140	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloropropane[1,2,3-]	96-18-4	N	0.333	0.00835	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trichloropropane[1,2,3-]	96-18-4	N	0.333	0.00835	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trimethylbenzene[1,2,4-]	95-63-6	N	0.333	56	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trimethylbenzene[1,2,4-]	95-63-6	N	0.333	56	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trimethylbenzene[1,3,5-]	108-67-8	N	0.5	60	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Trimethylbenzene[1,3,5-]	108-67-8	N	0.5	60	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Trinitrobenzene[1,3,5-]	99-35-4	N	0.0818	590	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Trinitrobenzene[1,3,5-]	99-35-4	N	0.0817	590	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Trinitrotoluene[2,4,6-]	118-96-7	N	0.0818	9.8	–	–	–	0.0818	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Trinitrotoluene[2,4,6-]	118-96-7	N	0.0817	9.8	–	–	–	0.0817	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Tris (o-cresyl) phosphate	78-30-8	N	0.307	–	–	–	–	0.307	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	Tris (o-cresyl) phosphate	78-30-8	N	0.306	–	–	–	–	0.306	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340	11/15/2022	WG	UF	INIT	REG	RAD	Generic:Low_ Level_Tritium	Tritium	H-3	N	1.208	20000	–	0.901	2.917	–	pCi/L	Y	U	UJ	N3B-2023-459	CAMO-23-261136	ARSL
R-46	1340	11/15/2022	WG	UF	INIT	FD	RAD	Generic:Low_ Level_Tritium	Tritium	H-3	N	2.19	20000	–	0.869	2.596	–	pCi/L	Y	U	UJ	N3B-2023-459	CAMO-23-261144	ARSL
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.391	30	1.19	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Uranium	U	Y	0.389	30	1.19	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	7.33	63.1	11.4	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Vanadium	V	Y	7.31	63.1	11.4	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Vinyl acetate	108-05-4	N	1.67	409	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Vinyl acetate	108-05-4	N	1.67	409	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Vinyl Chloride	75-01-4	N	0.333	2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Vinyl Chloride	75-01-4	N	0.333	2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Xylene[1,2-]	95-47-6	N	0.333	193	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Xylene[1,2-]	95-47-6	N	0.333	193	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	0.5	193	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261136	GELC
R-46	1340.0	11/15/2022	WG	UF	INIT	FD	VOC	SW-846:8260D	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	0.5	193	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261144	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Zinc	Zn	N	3.3	10000	–	–	–	3.3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Zinc	Zn	N	3.3	10000	–	–	–	3.3	µg/L	Y	U	U	N3B-2023-443	CAMO-23-261145	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	2,4-Diamino-6-nitrotoluene	6629-29-4	N	0.518	–	–	–	–	0.518	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	2,6-Diamino-4-nitrotoluene	59229-75-3	N	0.518	–	–	–	–	0.518	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	3,5-Dinitroaniline	618-87-1	N	0.311	–	–	–	–	0.311	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acetone	67-64-1	N	3.07	14100	–	–	–	1.74	µg/L	Y	J	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acetonitrile	75-05-8	N	8.33	130	–	–	–	8.33	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.39	–	–	–	–	0.01	SU	Y	H	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acrolein	107-02-8	N	1.67	0.0415	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Acrylonitrile	107-13-1	N	1.67	0.523	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1.45	–	–	–	–	1.45	mg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58	–	72.9	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Aluminum	Al	N	68	5000	–	–	–	68	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00192	–	–	0.00507	0.0362	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Amino-2,6-dinitrotoluene[4-]	19406-51-0	N	0.083	1.9	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Amino-4,6-dinitrotoluene[2-]	35572-78-2	N	0.083	1.9	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0253	–	–	–	–	0.017	mg/L	Y	J	UJ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Antimony	Sb	N	1	6	–	–	–	1	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Arsenic	As	N	2	10	–	–	–	2	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	26.6	2000	38.1	–	–	1	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Benzene	71-43-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Beryllium	Be	N	1	4	–	–	–	1	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Boron	B	Y	17.6	750	–	–	–	15	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Bromide	Br(-1)	N	0.067	–	–	–	–	0.067	mg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromobenzene	108-86-1	N	0.333	62	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromochloromethane	74-97-5	N	0.333	83	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromodichloromethane	75-27-4	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromoform	75-25-2	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Bromomethane	74-83-9	N	0.337	7.54	–	–	–	0.337	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butanol[1-]	71-36-3	N	21.1	2000	–	–	–	21.1	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butanone[2-]	78-93-3	N	1.67	5560	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[n-]	104-51-8	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[sec-]	135-98-8	N	0.333	2000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Butylbenzene[tert-]	98-06-6	N	0.333	690	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Cadmium	Cd	N	0.3	5	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	10.3	–	17.03	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Carbon Disulfide	75-15-0	N	1.67	810	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Carbon Tetrachloride	56-23-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.376	–	–	1.35	4.1	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Chloride	Cl(-1)	Y	1.81	250	2.7	–	–	0.067	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloro-1,3-butadiene[2-]	126-99-8	N	0.333	0.187	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloro-1-propene[3-]	107-05-1	N	1.67	7.3	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorobenzene	108-90-7	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorodibromomethane	124-48-1	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloroethane	75-00-3	N	0.333	20900	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloroform	67-66-3	N	0.333	80	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chloromethane	74-87-3	N	0.333	20.3	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorotoluene[2-]	95-49-8	N	0.333	233	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Chlorotoluene[4-]	106-43-4	N	0.333	250	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.31	50	7.48	–	–	3	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Cobalt	Co	N	1	50	–	–	–	1	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.234	–	–	0.958	3.85	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Copper	Cu	N	3	1000	–	–	–	3	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	Inorganic	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.00167	0.2	–	–	–	0.00167	mg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromo-3-Chloropropane[1,2-]	96-12-8	N	0.333	0.2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromoethane[1,2-]	106-93-4	N	0.333	0.05	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dibromomethane	74-95-3	N	0.333	8	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,2-]	95-50-1	N	0.333	600	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,3-]	541-73-1	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorobenzene[1,4-]	106-46-7	N	0.333	75	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichlorodifluoromethane	75-71-8	N	0.355	197	–	–	–	0.355	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethane[1,1-]	75-34-3	N	0.333	25	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethane[1,2-]	107-06-2	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[1,1-]	75-35-4	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[cis/trans-1,2-]	540-59-0	N	0.667	–	–	–	–	0.667	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[cis-1,2-]	156-59-2	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloroethene[trans-1,2-]	156-60-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[1,2-]	78-87-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[1,3-]	142-28-9	N	0.333	370	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropane[2,2-]	594-20-7	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[1,1-]	563-58-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[cis-1,3-]	10061-01-5	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Dichloropropene[trans-1,3-]	10061-02-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Diethyl Ether	60-29-7	N	0.333	3930	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrobenzene[1,3-]	99-65-0	N	0.083	2	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,4-]	121-14-2	N	0.083	2.37	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Dinitrotoluene[2,6-]	606-20-2	N	0.083	0.485	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Ethyl Methacrylate	97-63-2	N	1.67	455	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Ethylbenzene	100-41-4	N	0.333	700	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Fluoride	F(-1)	Y	0.246	1.6	0.377	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:900.0	Gross alpha	GROSSA	N	0.466	15	–	0.692	2.68	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:900.0	Gross beta	GROSSB	N	1.55	–	–	0.894	2.91	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	41.6	–	67.1	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Hexachlorobutadiene	87-68-3	N	0.333	1.39	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Hexanone[2-]	591-78-6	N	1.67	38	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	HMX	2691-41-0	N	0.083	1000	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Iodomethane	74-88-4	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Iron	Fe	N	30	1000	–	–	–	30	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isobutyl alcohol	78-83-1	N	16.7	5910	–	–	–	16.7	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isopropylbenzene	98-82-8	N	0.333	447	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Isopropyltoluene[4-]	99-87-6	N	0.333	–	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Lead	Pb	N	0.5	15	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.87	–	4.18	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Manganese	Mn	N	2	200	–	–	–	2	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:7470A	Mercury	Hg	N	0.067	2	–	–	–	0.067	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methacrylonitrile	126-98-7	N	1.67	1.91	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl Methacrylate	80-62-6	N	1.67	1390	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl tert-Butyl Ether	1634-04-4	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methyl-2-pentanone[4-]	108-10-1	N	1.67	1240	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Methylene Chloride	75-09-2	N	0.5	5	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	0.983	1000	2.5	–	–	0.2	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Naphthalene	91-20-3	N	0.333	1.17	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.6	–	–	2.26	7.82	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Nickel	Ni	N	0.6	200	2.9	–	–	0.6	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.396	10	0.769	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrobenzene	98-95-3	N	0.083	1.4	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[2-]	88-72-2	N	0.085	3.14	–	–	–	0.085	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[3-]	99-08-1	N	0.083	1.74	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Nitrotoluene[4-]	99-99-0	N	0.156	42.7	–	–	–	0.156	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.336	13.8	0.414	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	PETN	78-11-5	N	0.104	170	–	–	–	0.104	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0193	–	–	0.00921	0.0553	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00552	–	–	0.00677	0.0574	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	1.89	–	2.39	–	–	0.05	mg/L	Y	–	J+	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.8	–	–	21.5	31.5	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Propionitrile	107-12-0	N	1.67	–	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Propylbenzene[1-]	103-65-1	N	0.333	660	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:903.1	Radium-226	Ra-226	N	0.38	5	–	0.215	0.683	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	Generic:Radium by C	Radium-226 and Radium-228	Ra-226+228	N	0.975	–	–	0.347	–	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:904	Radium-228	Ra-228	N	0.596	5	–	0.272	0.828	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC

Table C-1 Analytical Results from the Periodic Monitoring Event Reported in this Periodic Monitoring Report

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	NMED GW CONS Limit	Background Level	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	N	0.083	9.66	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Selenium	Se	N	1.5	50	–	–	–	1.5	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	75.5	–	81.9	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Silver	Ag	N	0.3	50	–	–	–	0.3	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	10.2	–	16	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0599	–	–	0.847	3.42	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	–	–	–	–	1	µS/cm	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	47.5	11800	157	–	–	1	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00809	8	–	0.127	0.48	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Styrene	100-42-5	N	0.333	100	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:300.0	Sulfate	SO4(-2)	Y	1.9	600	4.59	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	TATB	3058-38-6	N	0.311	–	–	–	–	0.311	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethane[1,1,1,2-]	630-20-6	N	0.333	5.74	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethane[1,1,2,2-]	79-34-5	N	0.333	10	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Tetrachloroethene	127-18-4	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Tetryl	479-45-8	N	0.083	39.4	–	–	–	0.083	µg/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Thallium	Tl	N	0.6	2	–	–	–	0.6	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Tin	Sn	N	1	12000	–	–	–	1	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Toluene	108-88-3	N	0.333	1000	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:160.1	Total Dissolved Solids	TDS	Y	167	1000	161	–	–	2.38	mg/L	Y	–	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	General Chemistry	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.0549	–	–	–	–	0.033	mg/L	Y	J	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	General Chemistry	SW-846:9060A	Total Organic Carbon	TOC	N	0.33	–	–	–	–	0.33	mg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemistry	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0764	–	–	–	–	0.02	mg/L	Y	–	U	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloro-1,2,2-trifluoroethane[1,1,2-]	76-13-1	N	2.98	55000	–	–	–	2.98	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorobenzene[1,2,3-]	87-61-6	N	0.333	7	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorobenzene[1,2,4-]	120-82-1	N	0.333	70	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethane[1,1,1-]	71-55-6	N	0.333	200	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethane[1,1,2-]	79-00-5	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloroethene	79-01-6	N	0.333	5	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichlorofluoromethane	75-69-4	N	0.333	1140	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trichloropropane[1,2,3-]	96-18-4	N	0.333	0.00835	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trimethylbenzene[1,2,4-]	95-63-6	N	0.333	56	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Trimethylbenzene[1,3,5-]	108-67-8	N	0.5	60	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Trinitrobenzene[1,3,5-]	99-35-4	N	0.083	590	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Trinitrotoluene[2,4,6-]	118-96-7	N	0.083	9.8	–	–	–	0.083	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	Tris (o-cresyl) phosphate	78-30-8	N	0.311	–	–	–	–	0.311	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330	11/21/2022	WG	UF	INIT	REG	RAD	Generic:Low_ Level_Tritium	Tritium	H-3	N	0.797	20000	–	0.783	2.571	–	pCi/L	Y	U	UJ	N3B-2023-508	CAMO-23-261139	ARSL
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.504	30	1.19	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.308	27.2	0.715	0.0358	0.0655	–	pCi/L	Y	–	NQ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00343	28.8	–	0.00767	0.0515	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	30	0.336	0.0223	0.0626	–	pCi/L	Y	–	NQ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	8.14	63.1	11.4	–	–	1	µg/L	Y	–	J+	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Vinyl acetate	108-05-4	N	1.67	409	–	–	–	1.67	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Vinyl Chloride	75-01-4	N	0.333	2	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Xylene[1,2-]	95-47-6	N	0.333	193	–	–	–	0.333	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	VOC	SW-846:8260D	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	0.5	193	–	–	–	0.5	µg/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Zinc	Zn	Y	6.85	10000	–	–	–	3.3	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	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	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26	–	–	0.01	SU	Y	H	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.17	–	–	0.01	SU	Y	H	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	–	–	0.01	SU	Y	H	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.24	–	–	0.01	SU	Y	H	J	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	–	–	0.01	SU	Y	H	J	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62	–	–	1.45	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62	–	–	1.45	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.5	–	–	1.45	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.7	–	–	1.45	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.3	–	–	1.45	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.2	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	24.5	–	–	1	µg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	25.8	–	–	1	µg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	25	–	–	1	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Barium	Ba	Y	24.6	–	–	1	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	22.9	–	–	1	µg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	23.5	–	–	1	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	9.84	–	–	0.05	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	10.3	–	–	0.05	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	10.4	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Calcium	Ca	Y	10.6	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.69	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.91	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.67	–	–	0.067	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.64	–	–	0.067	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.8	–	–	0.067	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.73	–	–	0.067	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.68	–	–	0.067	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.65	–	–	0.067	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.127	–	–	0.033	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.398	–	–	0.033	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.219	–	–	0.033	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.213	–	–	0.033	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.142	–	–	0.033	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.257	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	HARDNESS	Y	39.1	–	–	0.453	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	HARDNESS	Y	39.7	–	–	0.453	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	HARDNESS	Y	40.2	–	–	0.453	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SM:A2340B	Hardness	HARDNESS	Y	40.6	–	–	0.453	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	HARDNESS	Y	37.5	–	–	0.453	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	HARDNESS	Y	39.6	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Iron	Fe	N	30	–	–	30	µg/L	Y	U	U	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Iron	Fe	N	30	–	–	30	µg/L	Y	U	U	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Iron	Fe	N	30	–	–	30	µg/L	Y	U	U	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Iron	Fe	N	30	–	–	30	µg/L	Y	U	U	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Iron	Fe	N	30	–	–	30	µg/L	Y	U	U	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Iron	Fe	Y	34.5	–	–	30	µg/L	Y	J	J	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.54	–	–	0.11	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.39	–	–	0.11	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.45	–	–	0.11	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.41	–	–	0.11	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.23	–	–	0.11	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.62	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Molybdenum	Mo	Y	1.15	–	–	0.2	µg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.26	–	–	0.2	µg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.24	–	–	0.2	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.21	–	–	0.2	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.1	–	–	0.2	µg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.23	–	–	0.2	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Nickel	Ni	N	3	–	–	3	µg/L	Y	U	U	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Nickel	Ni	Y	0.683	–	–	0.6	µg/L	Y	J	J	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Nickel	Ni	Y	1.02	–	–	0.6	µg/L	Y	J	J	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6020B	Nickel	Ni	Y	0.784	–	–	0.6	µg/L	Y	J	J	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Nickel	Ni	N	0.6	–	–	0.6	µg/L	Y	U	U	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Nickel	Ni	Y	1.39	–	–	0.6	µg/L	Y	J	J	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.351	–	–	0.017	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.354	–	–	0.017	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	–	–	0.017	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.353	–	–	0.017	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.349	–	–	0.017	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.329	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.348	–	–	0.05	µg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.321	–	–	0.05	µg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.317	–	–	0.05	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.327	–	–	0.05	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.293	–	–	0.05	µg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.265	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	2.02	–	–	0.05	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	2.03	–	–	0.05	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	2.06	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Potassium	K	Y	2.05	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	2.08	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	2.17	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/12/2014	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8321A_MOD	RDX	121-82-4	N	0.281	–	–	0.0899	µg/L	Y	UH	UJ	2015-297	CAMO-15-90281	GELC
R-14 S1	1200.6	11/12/2019	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	N	0.0802	–	–	0.0802	µg/L	Y	U	U	N3B-2020-305	CAMO-20-189304	GELC
R-14 S1	1200.6	11/18/2020	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	N	0.0816	–	–	0.0816	µg/L	Y	U	U	N3B-2021-423	CAMO-21-210588	GELC
R-14 S1	1200.6	11/18/2020	WG	UF	INIT	FD	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	N	0.0812	–	–	0.0812	µg/L	Y	U	U	N3B-2021-423	CAMO-21-210590	GELC
R-14 S1	1200.6	11/17/2021	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	N	0.0816	–	–	0.0816	µg/L	Y	U	U	N3B-2022-409	CAMO-22-236483	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	LCMS/MS High Explosives	SW-846:8330B	RDX	121-82-4	Y	0.192	–	–	0.0766	µg/L	Y	J	J	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	80	–	–	0.053	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.1	–	–	0.053	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	84.3	–	–	0.053	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	85.2	–	–	0.053	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	78.3	–	–	0.053	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	81.4	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	10.3	–	–	0.1	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	10.8	–	–	0.1	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	10.6	–	–	0.1	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Sodium	Na	Y	10.6	–	–	0.1	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	10.4	–	–	0.1	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	10.9	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	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	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	109	–	–	1	µS/cm	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	–	–	1	µS/cm	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	–	–	1	µS/cm	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	–	–	1	µS/cm	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	–	–	1	µS/cm	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	44.6	–	–	1	µg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	45.8	–	–	1	µg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	46.4	–	–	1	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Strontium	Sr	Y	46.4	–	–	1	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	45.1	–	–	1	µg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	48	–	–	1	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.92	–	–	0.133	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.76	–	–	0.133	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.83	–	–	0.133	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.83	–	–	0.133	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.84	–	–	0.133	mg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	137	–	–	3.4	mg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	149	–	–	3.4	mg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	143	–	–	3.4	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	151	–	–	3.4	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	137	–	–	3.4	mg/L	Y	–	J	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	136	–	–	2.38	mg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	UF	INIT	REG	General Chemisty	SW-846:9060	Total Organic Carbon	TOC	Y	0.398	–	–	0.33	mg/L	Y	J	J	N3B-2019-437	CAMO-19-164051	GELC
R-14 S1	1200.6	11/12/2019	WG	UF	INIT	REG	General Chemisty	SW-846:9060A	Total Organic Carbon	TOC	N	0.33	–	–	0.33	mg/L	Y	U	U	N3B-2020-305	CAMO-20-189304	GELC
R-14 S1	1200.6	11/18/2020	WG	UF	INIT	REG	General Chemisty	SW-846:9060A	Total Organic Carbon	TOC	Y	0.747	–	–	0.33	mg/L	Y	J	J	N3B-2021-423	CAMO-21-210588	GELC
R-14 S1	1200.6	11/18/2020	WG	UF	INIT	FD	General Chemisty	SW-846:9060A	Total Organic Carbon	TOC	Y	0.781	–	–	0.33	mg/L	Y	J	J	N3B-2021-423	CAMO-21-210590	GELC
R-14 S1	1200.6	11/17/2021	WG	UF	INIT	REG	General Chemisty	SW-846:9060A	Total Organic Carbon	TOC	N	0.33	–	–	0.33	mg/L	Y	U	U	N3B-2022-409	CAMO-22-236483	GELC
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	General Chemisty	SW-846:9060A	Total Organic Carbon	TOC	Y	0.677	–	–	0.33	mg/L	Y	J	J	N3B-2023-457	CAMO-23-261133	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	General Chemisty	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0411	–	–	0.02	mg/L	Y	J	U	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	General Chemisty	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0386	–	–	0.02	mg/L	Y	J	U	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	General Chemisty	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.084	–	–	0.02	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	General Chemisty	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0914	–	–	0.02	mg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	General Chemisty	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0306	–	–	0.02	mg/L	Y	J	J	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	General Chemisty	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.311	–	–	0.02	mg/L	Y	–	J+	N3B-2023-457	CAMO-23-261134	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	2.814	–	pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164051	ARSL
R-14 S1	1200.6	11/12/2019	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.717	0.892	2.956	–	pCi/L	Y	U	U	N3B-2020-333	CAMO-20-189304	ARSL
R-14 S1	1200.6	11/18/2020	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.492	0.819	2.758	–	pCi/L	Y	U	U	N3B-2021-424	CAMO-21-210588	ARSL
R-14 S1	1200.6	11/18/2020	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.104	0.917	3.111	–	pCi/L	Y	U	U	N3B-2021-424	CAMO-21-210590	ARSL
R-14 S1	1200.6	11/17/2021	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.103	0.898	2.922	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236483	ARSL
R-14 S1	1200.6	11/17/2021	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.103	0.898	2.922	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236483	ARSL
R-14 S1	1200.6	11/16/2022	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.484	0.813	2.559	–	pCi/L	Y	U	UJ	N3B-2023-459	CAMO-23-261133	ARSL
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Uranium	U	Y	0.644	–	–	0.067	µg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.742	–	–	0.067	µg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.623	–	–	0.067	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6020B	Uranium	U	Y	0.649	–	–	0.067	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.708	–	–	0.067	µg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.659	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-14 S1	1200.6	11/09/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	7.27	–	–	1	µg/L	Y	–	NQ	N3B-2019-437	CAMO-19-164050	GELC
R-14 S1	1200.6	11/12/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	6.8	–	–	1	µg/L	Y	–	NQ	N3B-2020-305	CAMO-20-189303	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	7.51	–	–	1	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210587	GELC
R-14 S1	1200.6	11/18/2020	WG	F	INIT	FD	Inorganic	SW-846:6010C	Vanadium	V	Y	7.23	–	–	1	µg/L	Y	–	NQ	N3B-2021-423	CAMO-21-210589	GELC
R-14 S1	1200.6	11/17/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	6.9	–	–	1	µg/L	Y	–	NQ	N3B-2022-409	CAMO-22-236482	GELC
R-14 S1	1200.6	11/16/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	6.44	–	–	1	µg/L	Y	–	NQ	N3B-2023-457	CAMO-23-261134	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.65	–	–	0.01	SU	Y	H	NQ	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	General Chemisty	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	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.94	–	–	0.01	SU	Y	H	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.93	–	–	0.01	SU	Y	H	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.4	–	–	0.01	SU	Y	H	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	–	–	0.01	SU	Y	H	J	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	–	–	0.01	SU	Y	H	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.4	–	–	0.01	SU	Y	H	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4	–	–	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 Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	–	–	1.45	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62	–	–	1.45	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.4	–	–	1.45	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.3	–	–	1.45	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.1	–	–	1.45	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.8	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.6	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.017	–	–	0.017	mg/L	Y	U	U	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0299	–	–	0.017	mg/L	Y	J	U	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0219	–	–	0.017	mg/L	Y	J	U	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.017	–	–	0.017	mg/L	Y	U	UJ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.032	–	–	0.017	mg/L	Y	J	U	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.017	–	–	0.017	mg/L	Y	U	U	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0869	–	–	0.017	mg/L	Y	–	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.038	–	–	0.017	mg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	21.6	–	–	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	–	–	1	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	27.7	–	–	1	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Barium	Ba	Y	27.7	–	–	1	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	22.1	–	–	1	µg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	23.5	–	–	1	µg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	21.7	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Barium	Ba	Y	21.4	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	9.67	–	–	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	–	–	0.05	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	10.5	–	–	0.05	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Calcium	Ca	Y	10.6	–	–	0.05	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	10.2	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.99	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.26	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Calcium	Ca	Y	9.13	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.73	–	–	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 Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.73	–	–	0.067	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.8	–	–	0.067	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.77	–	–	0.067	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.93	–	–	0.067	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.71	–	–	0.067	mg/L	Y	–	J-	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.7	–	–	0.067	mg/L	Y	–	J+	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.69	–	–	0.067	mg/L	Y	–	J+	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Chromium	Cr	Y	5.23	–	–	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	–	–	3	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.33	–	–	3	µg/L	Y	J	J	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.15	–	–	3	µg/L	Y	J	J	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	4.56	–	–	3	µg/L	Y	J	J	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.19	–	–	3	µg/L	Y	J	J	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.29	–	–	3	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.1	–	–	3	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Cobalt	Co	N	1	–	–	1	µg/L	Y	U	U	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	Inorganic	SW-846:6010C	Cobalt	Co	N	1	–	–	1	µg/L	Y	U	U	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Cobalt	Co	N	1	–	–	1	µg/L	Y	U	U	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Cobalt	Co	N	1	–	–	1	µg/L	Y	U	U	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Cobalt	Co	N	1	–	–	1	µg/L	Y	U	U	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Cobalt	Co	N	1	–	–	1	µg/L	Y	U	U	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Cobalt	Co	Y	1	–	–	1	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Cobalt	Co	Y	1.03	–	–	1	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.14	–	–	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 Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.12	–	–	0.033	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:300.0	Fluoride	F(-1)	N	0.033	–	–	0.033	mg/L	Y	U	U	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.207	–	–	0.033	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.201	–	–	0.033	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.123	–	–	0.033	mg/L	Y	–	J+	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.23	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.231	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	38.2	–	–	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	–	–	0.453	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	42.4	–	–	0.453	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SM:A2340B	Hardness	Hardness	Y	42.6	–	–	0.453	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	38.9	–	–	0.453	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	38.9	–	–	0.453	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	36.5	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SM:A2340B	Hardness	Hardness	Y	35.9	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.42	–	–	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	–	–	0.11	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.94	–	–	0.11	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.94	–	–	0.11	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.24	–	–	0.11	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.38	–	–	0.11	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.24	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.19	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Molybdenum	Mo	Y	1.01	–	–	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	–	–	0.2	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.09	–	–	0.2	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.04	–	–	0.2	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	0.878	–	–	0.2	µg/L	Y	J	J	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.01	–	–	0.2	µg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.05	–	–	0.2	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	0.967	–	–	0.2	µg/L	Y	J	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.374	–	–	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 Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.375	–	–	0.017	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.363	–	–	0.017	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.36	–	–	0.017	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.318	–	–	0.017	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.374	–	–	0.085	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.352	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.288	–	–	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	SW-846:6850	Perchlorate	ClO4	Y	0.352	–	–	0.05	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.315	–	–	0.05	µg/L	Y	–	J	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.335	–	–	0.05	µg/L	Y	–	J	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.299	–	–	0.05	µg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.304	–	–	0.05	µg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.262	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.263	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	1.85	–	–	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	–	–	0.05	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	2.07	–	–	0.05	mg/L	Y	–	J+	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Potassium	K	Y	2.04	–	–	0.05	mg/L	Y	–	J+	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	1.82	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	1.9	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	1.97	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Potassium	K	Y	1.96	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.6	–	–	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	–	–	0.053	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.4	–	–	0.053	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.2	–	–	0.053	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.8	–	–	0.053	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	73.8	–	–	0.053	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	72.9	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	71.7	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	9.19	–	–	0.1	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164053	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/13/2018	WG	F	INIT	FD	Inorganic	SW-846:6010C	Sodium	Na	Y	9.26	–	–	0.1	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	9.93	–	–	0.1	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Sodium	Na	Y	9.59	–	–	0.1	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	9.19	–	–	0.1	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	9.72	–	–	0.1	mg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	9.22	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Sodium	Na	Y	9.08	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	–	–	1	µS/cm	Y	–	NQ	N3B-2019-459	CAMO-19-164053	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	FD	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	–	–	1	µS/cm	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	–	–	1	µS/cm	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	111	–	–	1	µS/cm	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	–	–	1	µS/cm	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	–	–	1	µS/cm	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	–	–	1	µS/cm	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	–	–	1	µS/cm	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	41.2	–	–	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	Strontium	Sr	Y	41.9	–	–	1	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	48	–	–	1	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Strontium	Sr	Y	48.2	–	–	1	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	43.1	–	–	1	µg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	44.1	–	–	1	µg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	42.4	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Strontium	Sr	Y	41.8	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.89	–	–	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 Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.89	–	–	0.133	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.89	–	–	0.133	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.88	–	–	0.133	mg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.72	–	–	0.133	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.84	–	–	0.133	mg/L	Y	–	J+	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.79	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	244	–	–	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 Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	170	–	–	3.4	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	170	–	–	3.4	mg/L	Y	–	J+	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	N	3.4	–	–	3.4	mg/L	Y	U	UJ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	78.6	–	–	3.4	mg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	126	–	–	3.4	mg/L	Y	–	J+	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	119	–	–	2.38	mg/L	Y	–	J	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	107	–	–	2.38	mg/L	Y	–	J	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340	11/13/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.391	0.925	2.744	–	pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164054	ARSL
R-46	1340	11/13/2018	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.33	0.827	2.64	–	pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164056	ARSL
R-46	1340	11/21/2019	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.444	0.91	3.078	–	pCi/L	Y	U	U	N3B-2020-444	CAMO-20-189308	ARSL
R-46	1340	11/21/2019	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.333	0.867	2.908	–	pCi/L	Y	U	U	N3B-2020-444	CAMO-20-189310	ARSL
R-46	1340	11/17/2020	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4	0.914	3.064	–	pCi/L	Y	U	U	N3B-2021-424	CAMO-21-210593	ARSL
R-46	1340.0	11/16/2021	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.012	0.925	3.133	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236487	ARSL
R-46	1340	11/16/2021	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.012	0.925	3.133	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236487	ARSL
R-46	1340	11/15/2022	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.208	0.901	2.917	–	pCi/L	Y	U	UJ	N3B-2023-459	CAMO-23-261136	ARSL
R-46	1340	11/15/2022	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.19	0.869	2.596	–	pCi/L	Y	U	UJ	N3B-2023-459	CAMO-23-261144	ARSL
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Uranium	U	Y	0.448	–	–	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	–	–	0.067	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	N	0.067	–	–	0.067	µg/L	Y	U	U	N3B-2020-411	CAMO-20-189307	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6020B	Uranium	U	Y	0.074	–	–	0.067	µg/L	Y	J	J	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.446	–	–	0.067	µg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.416	–	–	0.067	µg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.391	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6020B	Uranium	U	Y	0.389	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-46	1340.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	7.87	–	–	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	Vanadium	V	Y	7.92	–	–	1	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164055	GELC
R-46	1340.0	11/21/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	7.5	–	–	1	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189307	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-46	1340.0	11/21/2019	WG	F	INIT	FD	Inorganic	SW-846:6010C	Vanadium	V	Y	6.76	–	–	1	µg/L	Y	–	NQ	N3B-2020-411	CAMO-20-189309	GELC
R-46	1340.0	11/17/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	8.25	–	–	1	µg/L	Y	–	NQ	N3B-2021-417	CAMO-21-210592	GELC
R-46	1340.0	11/16/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	8.13	–	–	1	µg/L	Y	–	NQ	N3B-2022-394	CAMO-22-236486	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	7.33	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261137	GELC
R-46	1340.0	11/15/2022	WG	F	INIT	FD	Inorganic	SW-846:6010D	Vanadium	V	Y	7.31	–	–	1	µg/L	Y	–	NQ	N3B-2023-443	CAMO-23-261145	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	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	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.22	–	–	0.01	SU	Y	H	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.17	–	–	0.01	SU	Y	H	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	–	–	0.01	SU	Y	H	J	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.24	–	–	0.01	SU	Y	H	J	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.39	–	–	0.01	SU	Y	H	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60	–	–	1.45	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	–	–	1.45	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.7	–	–	1.45	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.3	–	–	1.45	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.9	–	–	1.45	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58	–	–	1.45	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	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	0.0501	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0108	0.00808	0.0362	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0238	0.0177	0.0435	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00247	0.00818	0.0621	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0152	0.00947	0.0546	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00192	0.00507	0.0362	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	24.6	–	–	1	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	24.5	–	–	1	µg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Barium	Ba	Y	23.3	–	–	1	µg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	26.2	–	–	1	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Barium	Ba	Y	25.5	–	–	1	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Barium	Ba	Y	26.6	–	–	1	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Boron	B	N	15	–	–	15	µg/L	Y	U	U	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Boron	B	N	15	–	–	15	µg/L	Y	U	U	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Boron	B	N	15	–	–	15	µg/L	Y	U	U	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Boron	B	N	15	–	–	15	µg/L	Y	U	U	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Boron	B	N	15	–	–	15	µg/L	Y	U	U	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Boron	B	Y	17.6	–	–	15	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	10.2	–	–	0.05	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	9.86	–	–	0.05	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Calcium	Ca	Y	9.95	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	10.8	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Calcium	Ca	Y	10.7	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Calcium	Ca	Y	10.3	–	–	0.05	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	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	2.04	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.572	1.43	4.43	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.12	1.25	5.07	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.763	1.39	5.45	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.709	1.02	3.88	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.376	1.35	4.1	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.84	–	–	0.067	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.89	–	–	0.067	mg/L	Y	–	J+	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	3.82	–	–	0.067	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.81	–	–	0.067	mg/L	Y	–	J-	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.8	–	–	0.067	mg/L	Y	–	J-	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Chloride	Cl(-1)	Y	1.81	–	–	0.067	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Chromium	Cr	Y	4.98	–	–	3	µg/L	Y	J	J	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	4.94	–	–	3	µg/L	Y	J	J	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	4.93	–	–	3	µg/L	Y	J	J	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.14	–	–	3	µg/L	Y	J	J	N3B-2022-382	CAMO-22-236490	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.3	–	–	3	µg/L	Y	J	J	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Chromium	Cr	Y	5.31	–	–	3	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	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	2.46	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.833	1.36	5.47	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.214	1.54	6.12	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.113	1.54	6.16	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.13	1.11	4.63	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.234	0.958	3.85	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.124	–	–	0.033	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.0985	–	–	0.033	mg/L	Y	J	J	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.25	–	–	0.033	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.131	–	–	0.033	mg/L	Y	–	J+	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.134	–	–	0.033	mg/L	Y	–	J+	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Fluoride	F(-1)	Y	0.246	–	–	0.033	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.1	0.575	1.75	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.55	1.02	3	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.244	0.544	2.01	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.746	0.699	2.55	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.601	0.631	2.38	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:900.0	Gross alpha	GROSSA	N	0.466	0.692	2.68	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.986	0.774	2.88	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.96	0.402	1.26	–	pCi/L	Y	–	NQ	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.6	0.86	2.8	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.946	0.593	1.95	–	pCi/L	Y	U	UJ	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.84	0.628	1.85	–	pCi/L	Y	–	J	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:900.0	Gross beta	GROSSB	N	1.55	0.894	2.91	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	41.2	–	–	0.453	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	38.6	–	–	0.453	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	38.7	–	–	0.453	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	42.7	–	–	0.453	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SM:A2340B	Hardness	Hardness	Y	42.3	–	–	0.453	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SM:A2340B	Hardness	Hardness	Y	41.6	–	–	0.453	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.83	–	–	0.11	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.39	–	–	0.11	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Magnesium	Mg	Y	3.36	–	–	0.11	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.82	–	–	0.11	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.76	–	–	0.11	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Magnesium	Mg	Y	3.87	–	–	0.11	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Molybdenum	Mo	Y	0.949	–	–	0.2	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	N	1.03	–	–	0.2	µg/L	Y	–	U	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	0.832	–	–	0.2	µg/L	Y	J	J	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.07	–	–	0.2	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	1.11	–	–	0.2	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Molybdenum	Mo	Y	0.983	–	–	0.2	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	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	3.95	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.693	2.3	8.34	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.47	2.76	10.2	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.12	2.94	10.4	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.97	2.15	7.07	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.6	2.26	7.82	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.409	–	–	0.017	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.378	–	–	0.017	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.358	–	–	0.017	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.394	–	–	0.017	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.388	–	–	0.017	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.396	–	–	0.017	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.348	–	–	0.05	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-60	1330.0	11/15/2019	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.333	–	–	0.05	µg/L	Y	–	J	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.332	–	–	0.05	µg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.317	–	–	0.05	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.341	–	–	0.05	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	LCMS/MS	SW-846:6850	Perchlorate	ClO4	Y	0.336	–	–	0.05	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	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	0.0342	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00212	0.00637	0.0385	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0265	0.0219	0.0615	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00548	0.00409	0.0514	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0118	0.0104	0.0552	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0193	0.00921	0.0553	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	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	0.0377	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.006	0.0374	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00265	0.0109	0.0686	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00365	0.00578	0.0429	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00393	0.00878	0.0461	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00552	0.00677	0.0574	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	1.66	–	–	0.05	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	1.88	–	–	0.05	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Potassium	K	Y	1.78	–	–	0.05	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	1.8	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Potassium	K	Y	1.81	–	–	0.05	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Potassium	K	Y	1.89	–	–	0.05	mg/L	Y	–	J+	N3B-2023-502	CAMO-23-261140	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	20.1	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.5	28.3	46.9	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.4	21.9	42.4	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-54.7	26.1	67.6	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	2.39	14.4	47	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.8	21.5	31.5	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/22/2011	WG	UF	INIT	REG	RAD	EPA:903.1	Radium-226	Ra-226	N	0.0605	0.078	0.29	–	pCi/L	Y	U	U	12-418	CAMO-12-1522	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:903.1	Radium-226	Ra-226	Y	0.259	0.0863	0.207	–	pCi/L	Y	–	NQ	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:903.1	Radium-226	Ra-226	Y	0.893	0.175	0.318	–	pCi/L	Y	–	NQ	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:903.1	Radium-226	Ra-226	N	0.3	0.135	0.404	–	pCi/L	Y	U	UJ	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:903.1	Radium-226	Ra-226	Y	0.363	0.12	0.304	–	pCi/L	Y	–	NQ	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:903.1	Radium-226	Ra-226	N	0.38	0.215	0.683	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	Generic:Radium by Calculation	Radium-226 and Radium-228	Ra-226+228	Y	1.03	0.283	–	–	pCi/L	Y	–	NQ	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	Generic:Radium by Calculation	Radium-226 and Radium-228	Ra-226+228	Y	1.01	0.238	–	–	pCi/L	Y	–	NQ	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	Generic:Radium by Calculation	Radium-226 and Radium-228	Ra-226+228	N	0.514	0.257	–	–	pCi/L	Y	–	UJ	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	Generic:Radium by Calculation	Radium-226 and Radium-228	Ra-226+228	Y	0.826	0.25	–	–	pCi/L	Y	–	NQ	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	Generic:Radium by Calculation	Radium-226 and Radium-228	Ra-226+228	N	0.975	0.347	–	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/22/2011	WG	UF	INIT	REG	RAD	EPA:904	Radium-228	Ra-228	Y	0.764	0.19	0.41	–	pCi/L	Y	–	NQ	12-418	CAMO-12-1522	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:904	Radium-228	Ra-228	N	0.77	0.269	0.821	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:904	Radium-228	Ra-228	N	0.122	0.162	0.569	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:904	Radium-228	Ra-228	N	0.215	0.218	0.743	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:904	Radium-228	Ra-228	N	0.463	0.219	0.668	–	pCi/L	Y	U	UJ	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:904	Radium-228	Ra-228	N	0.596	0.272	0.828	–	pCi/L	Y	U	UJ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	73	–	–	0.053	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.9	–	–	0.053	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.5	–	–	0.053	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	75.3	–	–	0.053	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	75.3	–	–	0.053	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Silicon Dioxide	SiO2	Y	75.5	–	–	0.053	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	9.62	–	–	0.1	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	9.42	–	–	0.1	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Sodium	Na	Y	9.65	–	–	0.1	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	10.2	–	–	0.1	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Sodium	Na	Y	10.2	–	–	0.1	mg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Sodium	Na	Y	10.2	–	–	0.1	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	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	2.1	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.633	1.09	4.55	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.12	1.33	5.71	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.127	1.19	5.1	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.837	0.811	2.83	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0599	0.847	3.42	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	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	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	113	–	–	1	µS/cm	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	–	–	1	µS/cm	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	–	–	1	µS/cm	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	–	–	1	µS/cm	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	–	–	1	µS/cm	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	45.5	–	–	1	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	44.3	–	–	1	µg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Strontium	Sr	Y	45	–	–	1	µg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	47.3	–	–	1	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Strontium	Sr	Y	47.3	–	–	1	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Strontium	Sr	Y	47.5	–	–	1	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	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	0.282	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.385	0.15	0.483	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.117	0.129	0.493	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.222	0.13	0.477	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.224	0.144	0.472	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00809	0.127	0.48	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	2.02	–	–	0.133	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.96	–	–	0.133	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	5.77	–	–	0.133	mg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.94	–	–	0.133	mg/L	Y	–	J+	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.94	–	–	0.133	mg/L	Y	–	J+	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:300.0	Sulfate	SO4(-2)	Y	1.9	–	–	0.133	mg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	159	–	–	3.4	mg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	180	–	–	3.4	mg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	146	–	–	3.4	mg/L	Y	–	J	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	126	–	–	3.4	mg/L	Y	–	J	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	130	–	–	3.4	mg/L	Y	–	J	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	General Chemisty	EPA:160.1	Total Dissolved Solids	TDS	Y	167	–	–	2.38	mg/L	Y	–	J	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330	11/13/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.464	0.926	2.727	–	pCi/L	Y	U	U	N3B-2019-480	CAMO-19-164059	ARSL
R-60	1330	11/15/2019	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.271	0.806	2.575	–	pCi/L	Y	U	U	N3B-2020-398	CAMO-20-189313	ARSL
R-60	1330	11/16/2020	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	9.652	1.784	2.994	–	pCi/L	Y	–	NQ	N3B-2021-402	CAMO-21-210597	ARSL
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.734	0.872	2.887	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236491	ARSL
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.033	0.830	2.814	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236497	ARSL
R-60	1330	11/15/2021	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.734	0.872	2.887	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236491	ARSL
R-60	1330	11/15/2021	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.033	0.83	2.814	–	pCi/L	Y	U	UJ	N3B-2022-412	CAMO-22-236497	ARSL
R-60	1330	11/21/2022	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.797	0.783	2.571	–	pCi/L	Y	U	UJ	N3B-2023-508	CAMO-23-261139	ARSL
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6020	Uranium	U	Y	0.519	–	–	0.067	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.512	–	–	0.067	µg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.506	–	–	0.067	µg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.506	–	–	0.067	µg/L	Y	–	J+	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6020B	Uranium	U	Y	0.506	–	–	0.067	µg/L	Y	–	J+	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6020B	Uranium	U	Y	0.504	–	–	0.067	µg/L	Y	–	NQ	N3B-2023-502	CAMO-23-261140	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	0.11	–	pCi/L	Y	–	NQ	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.423	0.0407	0.077	–	pCi/L	Y	–	NQ	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.414	0.0691	0.204	–	pCi/L	Y	–	NQ	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.357	0.0365	0.0664	–	pCi/L	Y	–	NQ	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.381	0.0416	0.0911	–	pCi/L	Y	–	NQ	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.308	0.0358	0.0655	–	pCi/L	Y	–	NQ	N3B-2023-502	CAMO-23-261139	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	0.107	–	pCi/L	Y	U	U	N3B-2019-459	CAMO-19-164059	GELC

Table C-2 Analytical Detections from the Periodic Monitoring Event Reported in this Periodic Monitoring Report Plus Results from the Four Previous Monitoring Events if Available

Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Unit	Best Value	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0324	0.0135	0.0552	–	pCi/L	Y	U	U	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.013	0.0186	0.176	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0207	0.00984	0.0506	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0162	0.0128	0.0694	–	pCi/L	Y	U	U	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00343	0.00767	0.0515	–	pCi/L	Y	U	U	N3B-2023-502	CAMO-23-261139	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	0.108	–	pCi/L	Y	–	NQ	N3B-2019-459	CAMO-19-164059	GELC
R-60	1330.0	11/15/2019	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.17	0.026	0.0901	–	pCi/L	Y	–	NQ	N3B-2020-367	CAMO-20-189313	GELC
R-60	1330.0	11/16/2020	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.145	0.044	0.185	–	pCi/L	Y	U	U	N3B-2021-408	CAMO-21-210597	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.15	0.0246	0.0631	–	pCi/L	Y	–	NQ	N3B-2022-382	CAMO-22-236491	GELC
R-60	1330.0	11/15/2021	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.144	0.0264	0.0866	–	pCi/L	Y	–	NQ	N3B-2022-382	CAMO-22-236497	GELC
R-60	1330.0	11/21/2022	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.0223	0.0626	–	pCi/L	Y	–	NQ	N3B-2023-502	CAMO-23-261139	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	8.41	–	–	1	µg/L	Y	–	NQ	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	7.6	–	–	1	µg/L	Y	–	NQ	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Vanadium	V	Y	8.08	–	–	1	µg/L	Y	–	NQ	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	7.79	–	–	1	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Vanadium	V	Y	7.49	–	–	1	µg/L	Y	–	NQ	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Vanadium	V	Y	8.14	–	–	1	µg/L	Y	–	J+	N3B-2023-502	CAMO-23-261140	GELC
R-60	1330.0	11/13/2018	WG	F	INIT	REG	Inorganic	SW-846:6010C	Zinc	Zn	N	3.3	–	–	3.3	µg/L	Y	U	U	N3B-2019-459	CAMO-19-164058	GELC
R-60	1330.0	11/15/2019	WG	F	INIT	REG	Inorganic	SW-846:6010C	Zinc	Zn	N	3.3	–	–	3.3	µg/L	Y	U	U	N3B-2020-367	CAMO-20-189312	GELC
R-60	1330.0	11/16/2020	WG	F	INIT	REG	Inorganic	SW-846:6010C	Zinc	Zn	Y	3.34	–	–	3.3	µg/L	Y	J	J	N3B-2021-408	CAMO-21-210596	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	REG	Inorganic	SW-846:6010D	Zinc	Zn	Y	9.09	–	–	3.3	µg/L	Y	J	J	N3B-2022-382	CAMO-22-236490	GELC
R-60	1330.0	11/15/2021	WG	F	INIT	FD	Inorganic	SW-846:6010D	Zinc	Zn	Y	7.63	–	–	3.3	µg/L	Y	J	J	N3B-2022-382	CAMO-22-236496	GELC
R-60	1330.0	11/21/2022	WG	F	INIT	REG	Inorganic	SW-846:6010D	Zinc	Zn	Y	6.85	–	–	3.3	µg/L	Y	J	J	N3B-2023-502	CAMO-23-261140	GELC

Appendix D

Groundwater Results Greater Than Half of Screening Values

There are no results for this periodic monitoring report.

Appendix E

Analytical Chemistry Graphs of Screening-Value Exceedances

There are no results for this periodic monitoring report.

Appendix F

Analytical Reports
(on CD included with this document)

N3B RECORDS	
Media Information Page	
This is a placeholder page for a record that cannot be uploaded or would lose meaning or content if uploaded. The record can be requested through regdocs@em-la.doe.gov	
Document Date: 11/3/2023	**EM ID number:** 702944-02
Document Title: Appendix F Submittal of the 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed, Revision 1, and the Response to the New Mexico Environment Department Review of the 2023 Annual Periodic Monitoring Report for the Material Disposal Area C Monitoring Group, Mortandad Canyon Watershed	☒ **No restrictions** ☐ **UCNI** ☐ **Copyrighted**
Media type and quantity: 1 CD	**Software and version required to read media:** Adobe Acrobat 9.0
Other document numbers or notes: Files are too numerous and large to upload.	

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-2023-457	Inorganic	GELC[a]	CAMO-23-261133	11/16/2022	R-14 S1[b]	1200.6	1233.2
N3B-2023-457	Organic	GELC	CAMO-23-261133	11/16/2022	R-14 S1	1200.6	1233.2
N3B-2023-457	Inorganic	GELC	CAMO-23-261134	11/16/2022	R-14 S1	1200.6	1233.2
N3B-2023-443	Inorganic	GELC	CAMO-23-261136	11/15/2022	R-46	1340.0	1360.7
N3B-2023-443	Organic	GELC	CAMO-23-261136	11/15/2022	R-46	1340.0	1360.7
N3B-2023-443	Inorganic	GELC	CAMO-23-261137	11/15/2022	R-46	1340.0	1360.7
N3B-2023-443	Inorganic	GELC	CAMO-23-261144	11/15/2022	R-46	1340.0	1360.7
N3B-2023-443	Organic	GELC	CAMO-23-261144	11/15/2022	R-46	1340.0	1360.7
N3B-2023-443	Inorganic	GELC	CAMO-23-261145	11/15/2022	R-46	1340.0	1360.7
N3B-2023-502	Inorganic	GELC	CAMO-23-261139	11/21/2022	R-60	1330.0	1350.9
N3B-2023-502	Organic	GELC	CAMO-23-261139	11/21/2022	R-60	1330.0	1350.9
N3B-2023-502	Rad[c]	GELC	CAMO-23-261139	11/21/2022	R-60	1330.0	1350.9
N3B-2023-502	Inorganic	GELC	CAMO-23-261140	11/21/2022	R-60	1330.0	1350.9

[a] GELC = GEL Laboratories, LLC, Division of the GEL Group, Charleston, SC.

[b] S1 = Screen 1.

[c] Rad = Radiochemistry.