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

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EMLA-2020-1282-02-001

Mr. Kevin Pierard
Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Subject: Submittal of the Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Revision 1

Dear Mr. Pierard:

Enclosed please find two hard copies with electronic files of the "Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Revision 1." Included is an electronic copy of a redline strikeout version of the report that shows all changes made in response to the New Mexico Environment Department's (NMED's) comments, dated November 2019. A copy of the response is provided as Enclosure 2.

The report has been revised to include clarifying language. Several analytes reported had method detection limits or minimum detectable activities that were greater than screening values. Language was added that no *detected* groundwater analytical results reported were above applicable screening values. Additionally, screening levels were reported for all analytes in Appendix C.

If you have any questions, please contact Steve Veenis at (505) 309-1362 (steve.veenis@em-la.doe.gov) or Hai Shen at (505) 257-7943 (hai.shen@em.doe.gov).

Sincerely,

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

Enclosures:

1. Two hard copies with electronic files (including a redline strikeout version) – Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Revision 1 (EM2020-0003)
2. Response to New Mexico Environment Department Comments on the Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Dated August 2019 (EM2020-0002)

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February 2020
EM2020-0003

# Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, 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.

EM2020-0003

# Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Revision 1

February 2020

Responsible program director:

| Printed Name | Signature | Title | Organization | Date |
|---|---|---|---|---|
| Bruce Robinson | | Program Director | Water Program | 2/12/2020 |

Responsible N3B representative:

| Printed Name | Signature | Title | Organization | Date |
|---|---|---|---|---|
| Bradley Smith | | Acting Program Manager | N3B Environmental Remediation Program | 2/13/2020 |

Responsible DOE EM-LA representative:

| Printed Name | Signature | Title | Organization | Date |
|---|---|---|---|---|
| Arturo Q. Duran | for | Compliance and Permitting Manager | Office of Quality and Regulatory Compliance | 2/14/2020 |

## EXECUTIVE SUMMARY

This annual periodic monitoring report (PMR) presents results for the Material Disposal Area (MDA) AB monitoring group of the Newport News Nuclear BWXT-Los Alamos, LLC, groundwater monitoring program that have not been previously reported. All monitoring work reported in this PMR was conducted pursuant to the "Interim Facility-Wide Groundwater Monitoring Plan for the 2019 Monitoring Year, October 2018–September 2019," prepared in accordance with the Compliance Order on Consent. The revision includes an updated Table C-1 with all applicable standards, clarifying language to the groundwater results, updated methods and procedures text, and analytical data text.

All active monitoring locations in the MDA AB monitoring group are located within the Ancho Canyon and Water Canyon watersheds. The MDA AB monitoring group includes the monitoring of groundwater well or well screen locations. There are no surface-water monitoring locations in this monitoring group.

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

Groundwater samples collected during the PME were analyzed for the following analytical groups as specified in the Interim Facility-Wide Groundwater Monitoring Plan for the 2019 monitoring year: general inorganic chemicals, including perchlorate; metals; semivolatile organic compounds; volatile organic compounds; radionuclides, including low-level tritium; explosive compounds; and field parameters, including dissolved oxygen, flow (in gallons per minute), oxidation-reduction potential, pH, specific conductance, temperature, and turbidity.

No detected groundwater analytical results reported in this PMR were above the applicable screening value.

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**Acronyms and Abbreviations**

| | |
|---|---|
| µS/cm | microsiemens per centimeter |
| AOC | area of concern |
| ARSL | American Radiation Services, Inc. |
| COC | chain of custody |
| Consent Order | Compliance Order on Consent |
| deg C | degrees Celsius |
| DOE | Department of Energy (U.S.) |
| EIM | environmental information management system |
| EPA | Environmental Protection Agency (U.S.) |
| EQB | equipment rinsate blank |
| FB | field blank |
| FD | field duplicate |
| FTB | field trip blank |
| GELC | GEL Laboratories, LLC |
| gpm | gallons per minute |
| HE | high explosives |
| HMX | Her Majesty's Explosive |
| 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 |
| mV | millivolts |
| MY | monitoring year |
| N | no (best value flag code) |
| n/a | not applicable |
| N3B | Newport News Nuclear BWXT-Los Alamos, LLC |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NMWQCC | New Mexico Water Quality Control Commission |
| NTU | nephelometric turbidity unit |
| PEB | performance evaluation blank |

| | |
|---|---|
| PME | periodic monitoring event |
| PMR | periodic monitoring report |
| QA | quality assurance |
| QC | quality control |
| Rad | radiochemistry (not gamma) |
| RDX | Royal Demolition Explosive |
| SOP | standard operating procedure |
| SU | standard unit |
| SVOC | semivolatile organic compound |
| SWMU | solid waste management unit |
| TA | technical area |
| TNT | 2,4,6-trinitrotoluene |
| UTL | upper tolerance limit |
| VOC | volatile organic compound |
| WCSF | waste characterization strategy form |
| WG | groundwater |
| Y | yes (best value flag code) |

## 1.0 INTRODUCTION

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

| Watersheds | PMEs Reported in this PMR | | PME Field Sampling | |
|---|---|---|---|---|
| | Monitoring Year | Quarter | Begin | End |
| Ancho Canyon and Water Canyon | 2019 | 2 | 02/05/2019 | 02/08/2019 |

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

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

Section IX of the Consent Order describes the role of data screening in the corrective action process. Screening values are used to identify the *potential* for unacceptable risk resulting from the presence of contaminants in groundwater and surface water. 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 are present at concentrations above screening values.

This report presents the following information:

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

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

## 1.1 Background

Groundwater monitoring is conducted at MDA AB to support the corrective measures process for solid waste management units (SWMUs) and areas of concern (AOCs) under the Consent Order. The MDA AB monitoring group includes both intermediate-perched and regional groundwater monitoring wells in the near vicinity of MDA AB. Other downgradient wells have general relevance to MDA AB and other upgradient sources but are not considered part of the MDA AB monitoring network and are not included in the monitoring group.

The MDA AB monitoring group is located in Technical Area 49 (TA-49). TA-49, also known as the Frijoles Mesa Site, is located on a mesa in the upper portion of the Ancho Canyon drainage, and part of the TA drains into Water Canyon. The canyons in the Ancho watershed are mainly dry with little alluvial and no known intermediate groundwater.

MDA AB was the site of underground nuclear weapons component testing from 1959 to 1961 (Purtymun and Stoker 1987, 006688; LANL 1988, 223036). The tests involved insufficient high explosives (HEs) and fissionable material to produce a nuclear reaction. The testing consisted of criticality, equation-of-state, and calibration experiments involving special nuclear materials. The testing involved large inventories of radioactive and hazardous materials, including isotopes of uranium and plutonium; lead; beryllium; HEs, such as TNT (2,4,6-trinitrotoluene), RDX (Royal Demolition Explosive), and HMX (Her Majesty's Explosive); and barium nitrate. Much of this material remains in shafts on the mesa top. Further information about activities and SWMUs and AOCs at TA-49 can be found in recent Los Alamos National Laboratory (LANL or the Laboratory) reports (LANL 2010, 109318; LANL 2010, 109319).

# 2.0 SCOPE OF ACTIVITIES

All active monitoring locations in the MDA AB monitoring group are located within Ancho Canyon and Water Canyon watersheds. Monitoring locations include one perched-intermediate well and three groundwater wells completed within the deep regional.

Groundwater samples collected during the PME were analyzed for the following analytical groups as specified in the 2019 IFGMP (N3B 2018, 700000): general inorganic chemicals, including perchlorate; metals; semivolatile organic compounds (SVOCs); volatile organic compounds (VOCs); radionuclides, including low-level tritium; explosive compounds; and field parameters, including 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 relevant version of the waste characterization strategy form (WCSF) "WCSF-Interim Facility-Wide Groundwater Monitoring" (LANL 2016, 601812). Purge water is stored until characterization is complete. If requirements are met, the purge water can be land applied in accordance with the standard operating procedure (SOP) "Land Application of Groundwater" (N3B-EPC-CP-QP-010 Rev 4) and standing order "Land Application of Groundwater" (N3B-SOP-ER-0003), which implement the NMED-approved decision tree for land application of drilling, development, rehabilitation, and purge water.

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

## 2.1 DEVIATIONS FROM PLANNED SCOPE

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 to which groundwater monitoring results are compared in this PMR. These criteria include the NMWQCC groundwater standards effective December 21, 2018, EPA MCLs, EPA regional screening levels for tap water, and NMED screening levels for tap water. These criteria are used to screen results in accordance with the process specified in Section IX of the Consent Order, as listed in Table 3.0-1.

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

- Base flow monitoring locations are assigned to one of two screening categories based upon hydrology of the water body being monitored: perennial or intermittent-ephemeral. Along with a hardness value, this category determines the screening values used for data at each monitoring location. Hardness-dependent screening values used to screen data at each base flow monitoring location are determined from the 20.6.4.900 New Mexico Administrative Code (NMAC) “Water Quality Standards for Interstate and Intrastate Surface Waters.” Hardness acute and chronic aquatic life criteria for metals are calculated using the hardness-dependent equations at 20.6.4.900.I NMAC. Hardness-dependent acute and chronic criteria were used for total recoverable aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements therein.
- For each individual substance, the lower concentration of the NMWQCC groundwater standard or EPA MCL is used as the screening value.
- If an NMWQCC groundwater standard or an MCL has not been established for a specific substance for which toxicological information is published, the NMED screening level for tap water is used as the groundwater screening value. NMED screening levels are established for either a cancer- or noncancer-risk type. For the cancer-risk type, screening levels are based on a 10–5 excess cancer risk. This report was prepared using the 2019 NMED Risk Assessment Guidance for Site Investigations and Remediation (NMED 2019, 700550).
- If the NMED screening level for tap water has not been established for a specific substance for which toxicological information is published, the EPA regional screening level for tap water is used as the groundwater screening value. The EPA screening levels are established for either a cancer- or noncancer-risk type. For the cancer-risk type, the Consent Order specifies screening at a $10^{-5}$ excess cancer risk. The EPA screening levels for tap water are at $10^{-6}$ excess cancer risk; therefore, 10 times the EPA $10^{-6}$ screening levels are used in the screening process. This report was prepared using the May 2019 EPA regional screening levels for tap water (http://www.epa.gov/risk/risk-based-screening-table-generic-tables).
- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. For this report, EPA MCLs are applied to both filtered and unfiltered sample results.

# 4.0 MONITORING RESULTS

## 4.1 Methods and Procedures

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

## 4.2 Comparison of Target Analytes and Method Detection Limits

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

## 4.3 Field Parameter Results

Appendix A presents the 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 this requirement could not be met.

## 4.4 Groundwater Elevations

The groundwater level is measured at each groundwater monitoring location before purging and sampling that location as required by the Consent Order. Table 2.1-1 notes any instances where this requirement could not be met.

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

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

Groundwater-level data from the end of the previous PME and through the end of the current PME 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 was the first groundwater level measurement taken on each day. Figure 4.4-2 shows the elevation of the regional groundwater surface and flow directions.

# 5.0 ANALYTICAL DATA RESULTS

## 5.1 Methods and Procedures

All methods and procedures used to analyze the data reported in this PMR are documented in the 2019 IFGMP (N3B 2018, 700000).

Sampling and data validation were conducted using SOPs that are part of a comprehensive quality assurance (QA) program. SOPs include the most current version of the following:

- "WCSF-Interim Facility-Wide Groundwater Monitoring" (LANL 2016, 601812)
- "Groundwater Sampling" (N3B-SOP-ER-3003)
- "Groundwater Sampling" (IWD-TPMC-LA-16-049)
- "Groundwater Sampling Using Westbay MP System" (N3B-SOP-5225)
- "Wireless Connect/Non-connected Component Plan – Standalone Wireless System Name: Groundwater Monitoring Well Data Acquisition System" (N3B-SD-016-CP-032/L2)
- "Locus Mobile Application for Groundwater Data Collection" (N3B-SOP-ER-20324)
- "Groundwater Sampling and Sample Preservation" (N3B-ER-IWD-20088)
- "Manual Groundwater Level Measurements" (N3B-SOP-ER-3001)
- "Groundwater Level Data Processing, Review, and Validation" (N3B-SOP-ER-3004)
- "Validation of Volatile Organic Compound (VOC) Analytical Data" (N3B-ER-AP-20309)
- "Validation of Semi-volatile Organic Compound Analytical Data" (N3B-ER-AP-20310)
- "Validation of LC-MS/MS High Explosive Analytical Data" (N3B-ER-AP-20316)
- "Validation of Organochlorine Pesticide and Polychlorinated Biphenyl Analytical Data" (N3B-ER-AP-20311)
- "Validation of Metals and Cyanide Analytical Data" (N3B-ER-AP-20313)
- "Validation of Gamma Spectroscopy, Chemical Separation Alpha Spectrometry, Gas Proportional Counting, and Liquid Scintillation Analytical Data" (N3B-ER-AP-20314)
- "Validation of General Chemistry Analytical Data" (N3B-ER-AP-20315)
- "Validation of Dioxin and Furan Analytical Data" (N3B-ER-AP-20320)
- "Validation of LC-MS/MS Perchlorate Analytical Data" (N3B-ER-AP-20320)

Samples to be collected are planned from tables contained in the 2019 IFGMP (N3B 2018, 700000). Sample plans include additional field collection, transportation, and field QA/quality control (QA/QC) criteria as identified in N3B/project data quality objectives and in the Consent Order. A sample collection log is created and printed to serve as a document field chain of custody (COC) and an analytical request form.

Field QA/QC samples include field blanks (FBs), equipment rinsate blanks (EQBs), performance evaluation blanks (PEBs), field duplicates (FDs), and field trip blanks (FTBs), and are used to detect possible field or analytical laboratory contamination and to track analytical laboratory performance. Differences in analytical results between FD samples, for example, may indicate the samples were not uniform or significant variation occurred during analyses. Detection of analytes in deionized water FBs may indicate contamination of the deionized water source or sample bottles, or contamination from the analytical laboratory.

FBs consist of deionized water from the Strom Water Processing Facility that is subjected to the same conditions as regular samples. FBs are used to evaluate impacts due to ambient conditions. FBs are collected at a minimum frequency of 10% of all organic samples collected during the sampling campaign, and are taken from locations where regular samples for organic constituents are collected. FBs are analyzed for the same suites of organic analytes except for HE compounds, which are not analyzed in FBs.

EQBs are used to detect any contamination resulting from contaminated equipment or poor decontamination techniques. The EQB is prepared by passing deionized water through unused or decontaminated sampling equipment, including Westbay sample bottles. EQBs are collected before a well is sampled with a non-dedicated pump. An EQB is also collected before each well equipped with a Westbay sampling system is sampled for off-site analysis. EQBs are not required when wells equipped with Westbay sampling systems are sampled for on-site analysis only.

PEBs are deionized water blanks from the Storm Water Processing Facility submitted as regular samples, without any indication they are QC samples. PEBs are used to evaluate the reagent-grade deionized water used to decontaminate sampling equipment and to prepare the blank samples discussed above. One PEB is collected per sampling campaign and analyzed for total organic carbon and for the full suite of constituents analyzed during the sampling campaign.

FDs are collected at a rate of 10% of all samples collected during a sampling campaign. FDs are distributed proportionally among surface water, alluvial groundwater, and intermediate/regional groundwater according to the relative number of samples collected for each type of water. FDs are split samples that provide information about field variation of sampling results as well as analytical laboratory variation. They may reveal sampling techniques with poor reproducibility and provide information on the reproducibility of the sampling process.

FTBs consist of organic-free deionized water prepared by an independent off-site laboratory that accompany regular samples collected for VOC analyses. FTBs are used to identify potential VOC contamination that may occur during sample collection, handling, shipping, and storage, or during the analytical process, and are analyzed for VOCs only. A minimum of one FTB per cooler containing samples for VOC analyses is required. However, to facilitate data validation, one FTB may be included with each sample submitted for VOC analysis.

Following sample collection, sampling personnel deliver the samples and the field 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 parameters group.

In addition to the field QC samples, additional external laboratory batch QC samples such as matrix spikes, duplicates, method blanks, and laboratory control samples are analyzed to monitor laboratory analytical processes. The laboratory QC is defined in the appropriate analytical method, the external analytical laboratory statement of work, and the Consent Order.

N3B data validation is performed externally from the analytical laboratory and end users of the data and applies a defined set of performance-based criteria to analytical data that may result in qualification of that data. Data validation provides a level of assurance, based on this technical evaluation, of the quality of the data. N3B validation of chemistry data includes a technical review of the analytical data package, covering the evaluation of both field and laboratory QC samples, the identification and quantitation of analytes, and the effect of QC deficiencies on analytical data, as well as other factors affecting the data quality.

The analytical data are submitted by the external laboratory in a pdf data package format and an electronic data deliverable uploaded to the N3B Environmental Information Management System (EIM). The data are then validated manually and in the EIM autovalidation process, reviewed by an N3B chemist at the appropriate level, and then fully transferred into EIM.

This validation follows processes described in the N3B validation procedures listed above. Validation qualifiers and reason codes applied during this process are also reviewed and approved by an N3B chemist to assess data usability. The EIM data are then made available to the public in the Intellus New Mexico database (http://intellusnm.com/).

### 5.2 Analytical Data

The analytical data results, including COCs and data validation forms, are provided in Appendix F (on CD included with this document).

Appendix C presents the analytical results for the PME reported in this PMR and from the previous four sampling events. The data were reviewed for conformance 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 (data that were rejected because of analytical problems and/or non-conformance with QC criteria during independent validation, and which are unusable) are still reported.
  - Laboratory QC results, FTB data, and FB data, are not included in the data set.
  - Tracers used for conceptual models are not reported.
  - Watch list data in which water-quality data for certain constituents are non-representative or are of questionable representativeness are not reported.
- 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. No gamma spectroscopy results for these analytes are presented.
  - Other than above mentioned, all results are reported at all locations.
- For nonradionuclide data:
  - All detected results are reported.

Multiple analyses of the same analyte in a sample, including dilutions and reanalyses, create multiple results for that analyte. 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.

The analytical results for radionuclides and radioactivity are voluntarily compared with the DOE Biota Concentration Guides for surface water (DOE 2002, 085637) and Derived Concentration Technical Standards for groundwater (DOE 2011, 600493) but are not reported in Table 5.2-1 or Appendix D.

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

Table 5.2-1 provides groundwater analytical results by hydrogeologic zone for specific analytical suites that are above screening values. Multiple detections are included in the table except for FD exceedances. For example, if aluminum were detected above its screening value in both a primary sample and a FD, only the primary sample result would be recorded. If aluminum were detected above its screening value in any primary samples, all results would be shown. As noted in Table 5.2-1, there are no locations where an analyte was above its screening value for the data reported in this PMR.

Graphs in Appendix E display analyte concentration histories for monitoring group locations where the analyte was above its screening value at least once in the following expanded data set, which includes the PME reported in this PMR in addition to data for the four most recent previous MDA AB monitoring group PMEs. Appendix E may include instances where the analyte data reported in this PMR are evaluated using a higher screening value than the screening value that was used to evaluate previously reported analyte data. For example, the current screening value for perchlorate, 13.8 µg/L per 2016 Consent Order data screening requirements, is greater than the former perchlorate screening value of 4 µg/L, which was used to evaluate previously reported analyte data. The horizontal solid red line on each graph depicts the current analyte screening value, except in cases where there were no exceedances of the current screening value by the data reported in this PMR but there was at least one exceedance of the former (lower) screening value by the previously reported analytical data. In such cases, the horizontal solid red line depicts the former (lower) screening value. Results with a best value flag of N are not included in Appendix E. There were no locations where an analyte was above its screening value at least once during the PMEs reported in this PMR and the four other most recent PMEs, so no graphs are included in Appendix E.

### 5.2.1 Surface Water (Base Flow)

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

### 5.2.2 Groundwater

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

## 5.3 Sampling Program Modifications

No modifications to the currently planned periodic monitoring of the MDA AB 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 that are reported in this PMR.

## 6.2 Analytical Results

### 6.2.1 Surface Water (Base Flow)

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

### 6.2.2 Groundwater

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

## 6.3 Data Gaps

Table 2.1-1 summarizes the fieldwork deviations from the planned monitoring for this annual PMR.

## 6.4 Remediation System Monitoring

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

# 7.0 REFERENCES

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

DOE (U.S. Department of Energy), July 2002. "A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota," DOE Standard No. DOE-STD-1153-2002, U.S. Department of Energy, Washington, D.C. (DOE 2002, 085637)

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), May 1988. "Environmental Surveillance at Los Alamos During 1987," Los Alamos National Laboratory report LA-11306-ENV, Los Alamos, New Mexico. (LANL 1988, 223036)

LANL (Los Alamos National Laboratory), May 2010. "Investigation Report for Sites at Technical Area 49 Outside the Nuclear Environmental Site Boundary," Los Alamos National Laboratory document LA-UR-10-3095, Los Alamos, New Mexico. (LANL 2010, 109318)

LANL (Los Alamos National Laboratory), May 2010. "Investigation Report for Sites at Technical Area 49 Inside the Nuclear Environmental Site Boundary," Los Alamos National Laboratory document LA-UR-10-3304, Los Alamos, New Mexico. (LANL 2010, 109319)

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

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

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

NMED (New Mexico Environment Department), June 19, 2019. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," February 2019 (Revision 2, 6/19/19), Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2019, 700550)

Purtymun, W.D., and A.K. Stoker, November 1987. "Environmental Status of Technical Area 49, Los Alamos, New Mexico," Los Alamos National Laboratory report LA-11135-MS, Los Alamos, New Mexico. (Purtymun and Stoker 1987, 006688)

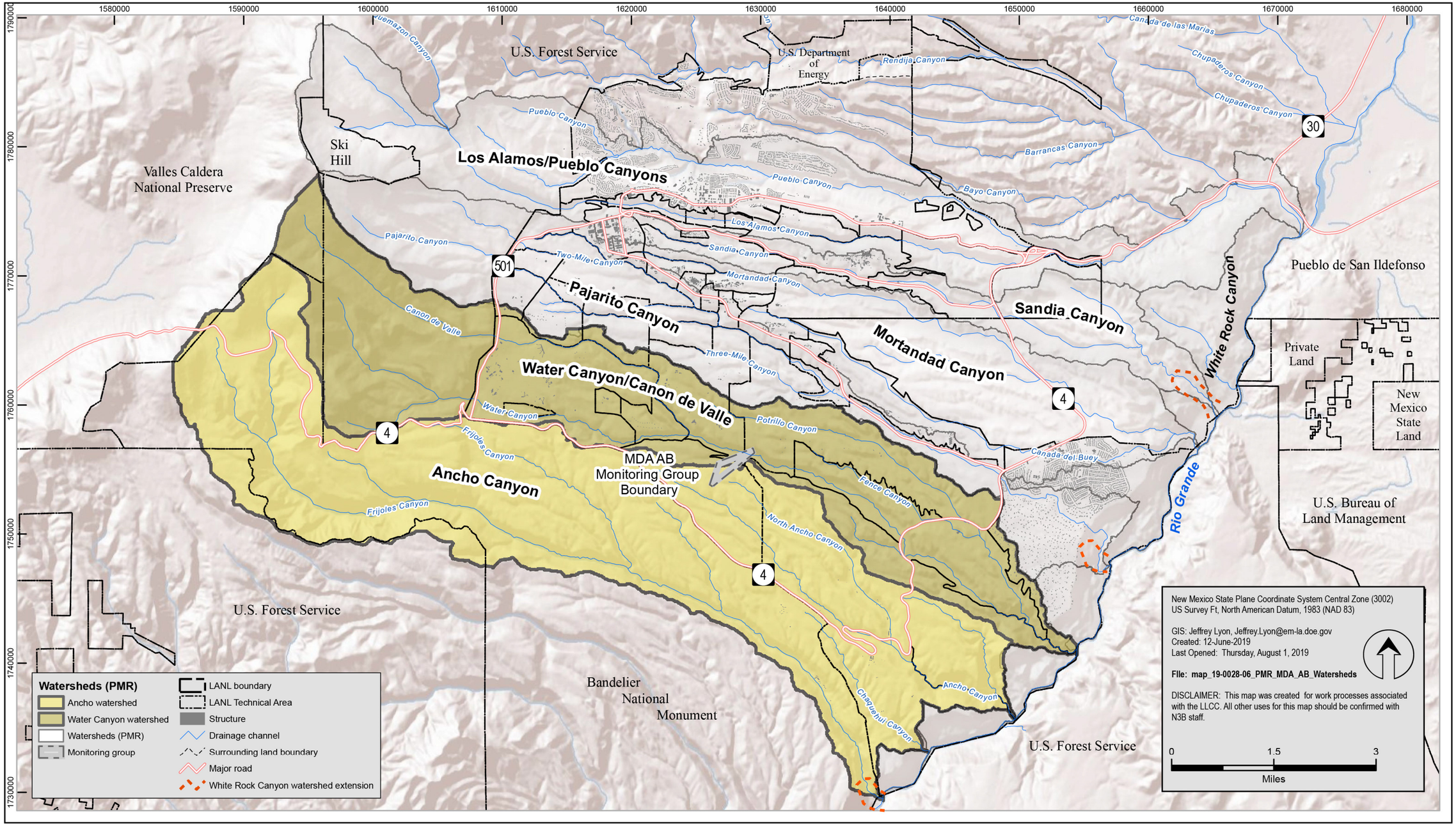


**Figure 2.0-1 MDA AB vicinity map**

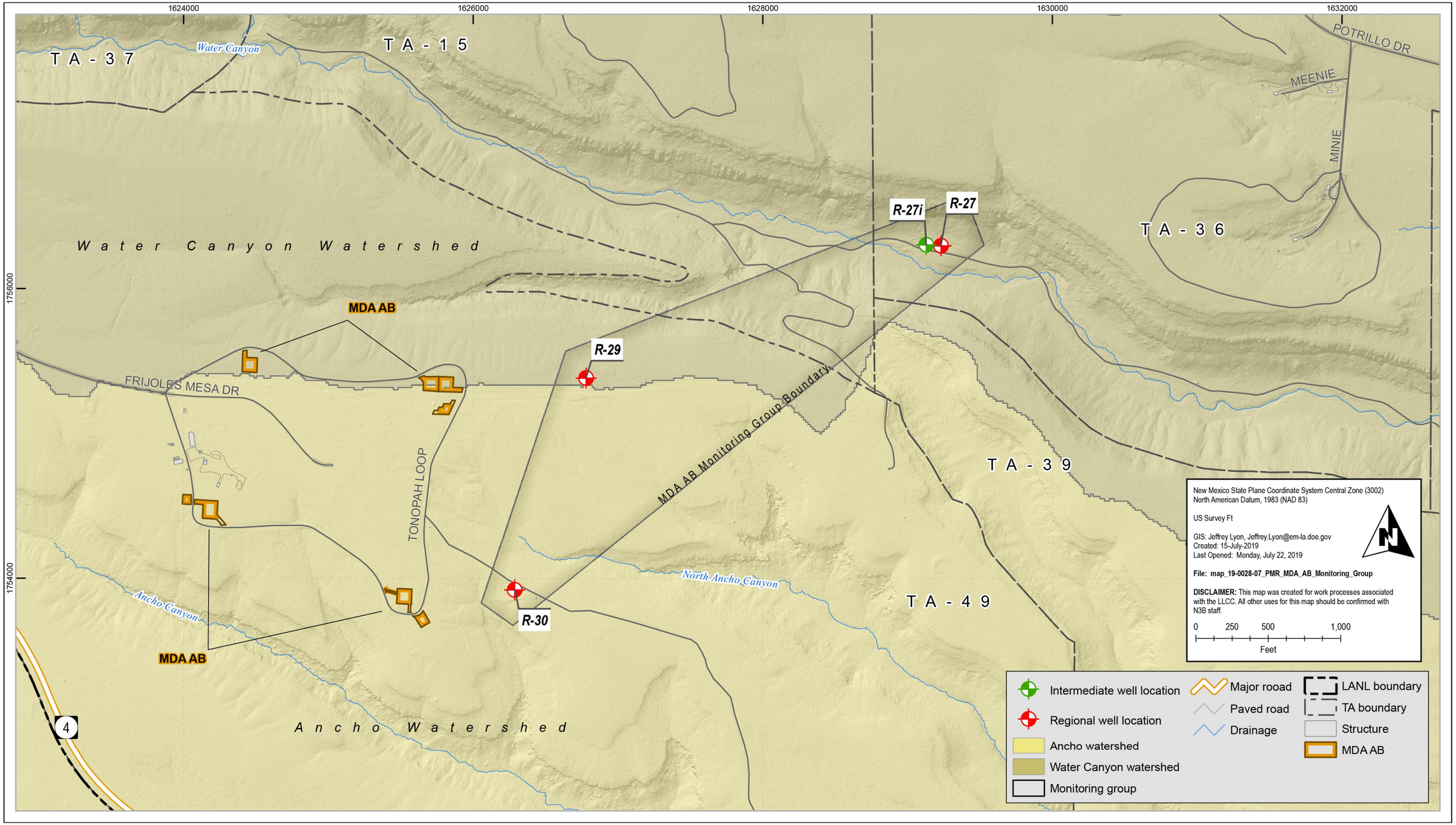


**Figure 2.0-2 MDA AB monitoring group locations (see Table 2.0-1)**

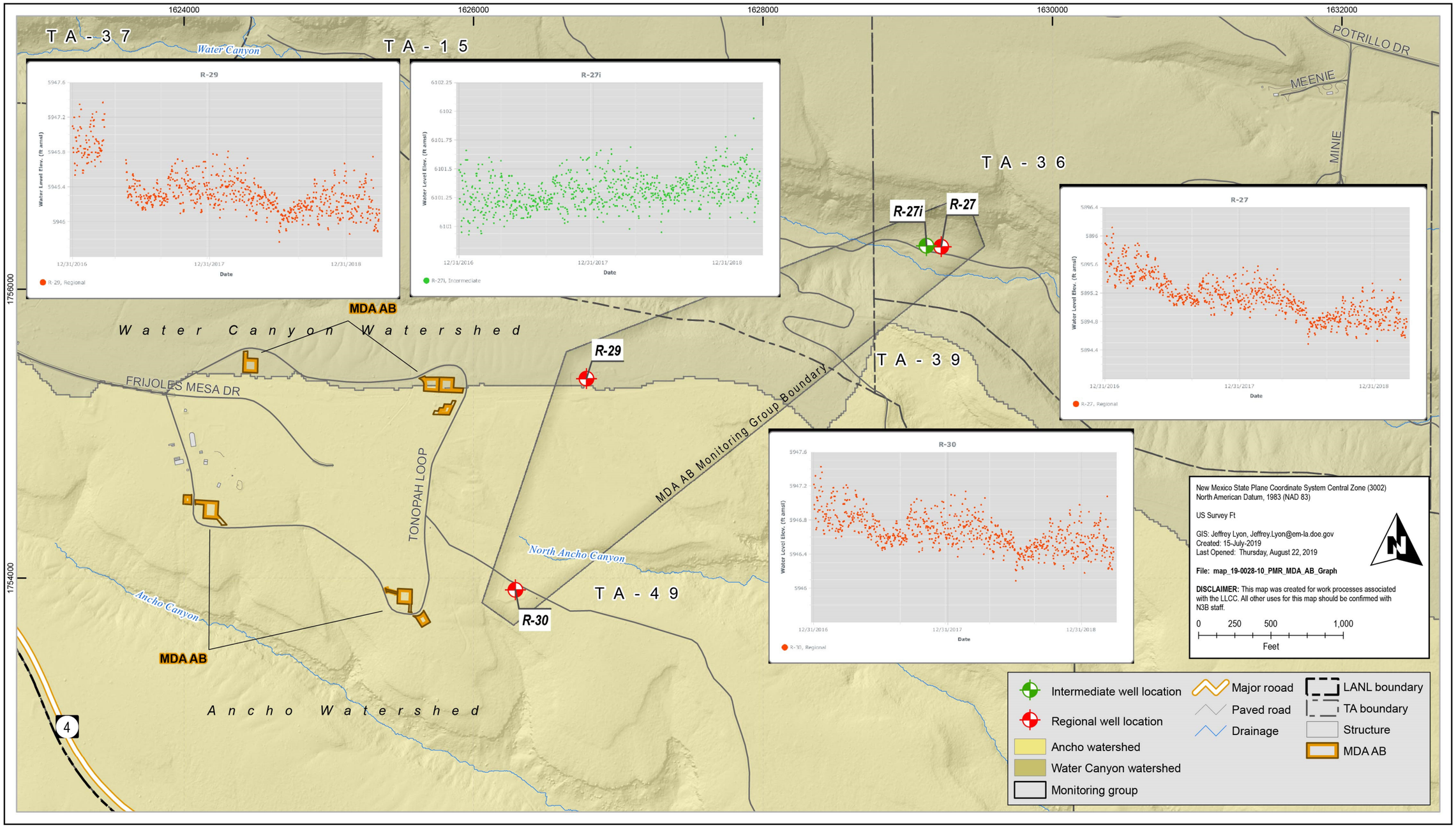


**Figure 4.4-1 Groundwater elevations**

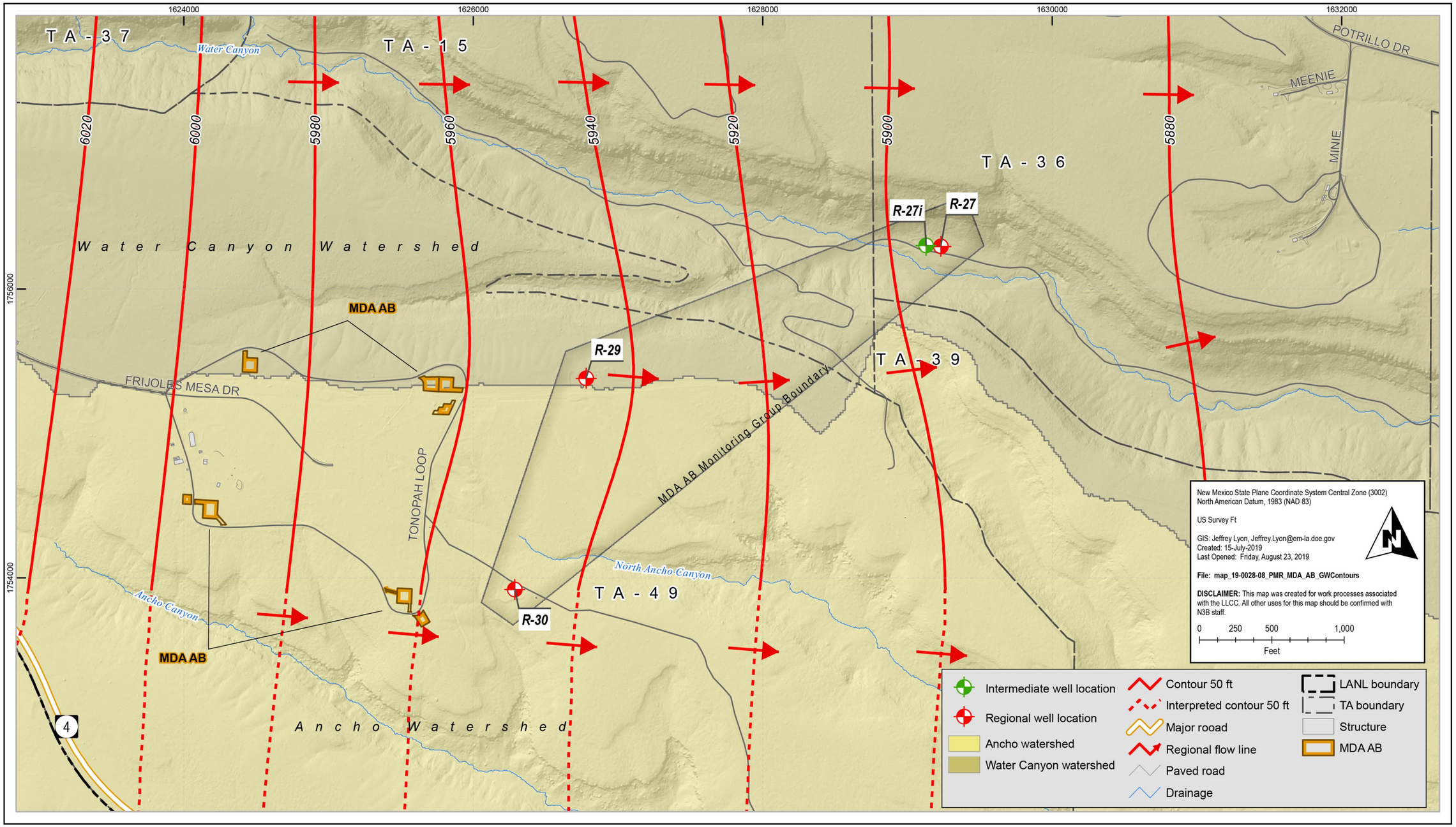


**Figure 4.4-2 MDA AB regional groundwater surface and flow direction**

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

| Location Name | Watershed | Sampling Event | | Sample Collection Date | Screened Interval (ft) | Screen Top Depth (ft) | Screen Bottom Depth (ft) | Calculated Single Casing Volume (gal.) | Purge Volume (gal.) | Purge or Flow Rate (gpm*) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | MY | Quarter | | | | | | | |
| **Intermediate** | | | | | | | | | | |
| R-27i | Water | 2019 | 2 | 02/08/2019 | 10 | 619 | 629 | 13.65 | 42.18 | 0.57 |
| **Regional** | | | | | | | | | | |
| R-27 | Water | 2019 | 2 | 02/08/2019 | 23 | 852 | 875 | 49.29 | 156 | 3.9 |
| R-29 | Ancho | | | 02/05/2019 | 10 | 1170 | 1180 | 38.19 | 230.7 | 7.69 |
| R-30 | Ancho | | | 02/06/2019 | 20.9 | 1140 | 1160.9 | 45.71 | 150 | 5 |

* gpm = Gallons per minute.

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

| Monitoring Location | Watershed | Sampling Event | | Observation/Deviation | Cause | Comment |
|---|---|---|---|---|---|---|
| | | MY | Quarter | | | |
| n/a* | n/a | n/a | n/a | There were no observations or deviations to report for this PMR. | n/a | n/a |

* n/a = Not applicable.

**Table 3.0-1**
**Sources for Standards and Screening Levels for Groundwater**

| Standard Type | Standard Source | Description | Groundwater |
|---|---|---|---|
| **New Mexico** | | | |
| Standard | 20 NMAC 6.2.3103 | Groundwater Human Health Standards, other standards for domestic water supply and standards for irrigation use (NMWQCC) | X[a] |
| Screening Level | NMED | Tap water screening levels[b] | X |
| **EPA** | | | |
| Standard | 40 Code of Federal Regulations 141 | EPA maximum contaminant levels (MCL) | X |
| Risk-Human | EPA Generic Screening Levels | EPA generic screening levels for tap water[c] | X |

**Table 3.0-1 (continued)**

| Standard Type | Standard Source | Description | Groundwater |
|---|---|---|---|
| **DOE** | | | |
| Standard | DOE Order 458.1 | DOE 100-mrem public dose derived concentration technical standards | X |
| Standard | DOE Order 458.1 | DOE 4-mrem drinking water derived concentration technical standards | X |

[a] X = Applied to data screen for this report.
[b] Screening levels derived from NMED guidance (NMED 2017, 602274; NMED 2019, 700550).
[c] EPA generic screening levels (http://www.epa.gov/risk/risk-based-screening-table-generic-tables)

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

| Analyte Name | MDL | Analytical Method | Screening Value | Unit | Screening-Value Type | Lab ID |
|---|---|---|---|---|---|---|
| **SVOCs** | | | | | | |
| Atrazine | 3–3.23 | SW-846:8270D | 3 | µg/L | EPA TAP SCRN LVL[a] | GELC[b] |
| Azobenzene | 3–3.23 | SW-846:8270D | 1.2 | µg/L | EPA TAP SCRN LVL | GELC |
| Benzidine | 3.9–4.19 | SW-846:8270D | 0.00109 | µg/L | NMED A1 TAP SCRN LVL[c] | GELC |
| Benzo(a)anthracene | 0.3–0.323 | SW-846:8270D | 0.12 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Benzo(a)pyrene | 0.3–0.323 | SW-846:8270D | 0.2 | µg/L | EPA MCL | GELC |
| Bis(2-chloroethyl)ether | 3–3.23 | SW-846:8270D | 0.137 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Dibenz(a,h)anthracene | 0.3–0.323 | SW-846:8270D | 0.0343 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Dibenz(a,h)anthracene | 0.3–0.323 | SW-846:8270D | 0.0343 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Dichlorobenzidine[3,3'-] | 3–3.23 | SW-846:8270D | 1.25 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Dinitro-2-methylphenol[4,6-] | 3–3.23 | SW-846:8270D | 1.52 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Dinitrotoluene[2,4-] | 3–3.23 | SW-846:8270D | 2.37 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Dinitrotoluene[2,6-] | 3–3.23 | SW-846:8270D | 0.485 | 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 |
|---|---|---|---|---|---|---|
| Hexachlorobenzene | 3–3.23 | SW-846:8270D | 1 | µg/L | EPA MCL | GELC |
| Hexachlorobutadiene | 3–3.23 | SW-846:8270D | 1.39 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Nitrobenzene | 3–3.23 | SW-846:8270D | 1.4 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Nitrosodiethylamine[N-] | 3–3.23 | SW-846:8270D | 0.00167 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Nitrosodimethylamine[N-] | 3–3.23 | SW-846:8270D | 0.00491 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Nitroso-di-n-butylamine[N-] | 3–3.23 | SW-846:8270D | 0.0273 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Nitroso-di-n-propylamine[N-] | 3–3.23 | SW-846:8270D | 0.11 | µg/L | EPA TAP SCRN LVL | GELC |
| Nitrosopyrrolidine[N-] | 3–3.23 | SW-846:8270D | 0.37 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Pentachlorobenzene | 3–3.23 | SW-846:8270D | 3.07 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Pentachlorophenol | 3–3.23 | SW-846:8270D | 1 | µg/L | EPA MCL | GELC |
| Tetrachlorobenzene[1,2,4,5] | 3–3.23 | SW-846:8270D | 1.66 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| **VOCs** | | | | | | |
| Acrolein | 1.5 | SW-846:8260B | 0.0415 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Acrylonitrile | 1.5 | SW-846:8260B | 0.523 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Chloro-1,3-butadiene[2-] | 0.3 | SW-846:8260B | 0.187 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Dibromo-3-Chloropropane[1,2-] | 0.5 | SW-846:8260B | 0.2 | µg/L | EPA MCL | GELC |
| Dibromoethane[1,2-] | 0.3 | SW-846:8260B | 0.05 | µg/L | EPA MCL | GELC |
| Dibromomethane | 0.3 | SW-846:8260B | 0.0747 | µg/L | NMED A1 TAP SCRN LVL | GELC |
| Trichloropropane[1,2,3-] | 0.3 | SW-846:8260B | 0.00835 | µg/L | NMED A1 TAP SCRN LVL | GELC |

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

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

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

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

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

| Analyte Name | MDL | Analytical Method | Screening Value | Unit | Screening-Value Type | Lab ID |
|---|---|---|---|---|---|---|
| **SVOCs** | | | | | | |
| Pentachlorobenzene | 3–3.23 | SW-846:8270D | 3.07 | µg/L | NMED A1 TAP SCRN LVL[a] | GELC[b] |

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

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

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

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

* n/a = Not applicable.

# Appendix A

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

| Location ID | Screen Depth | Measurement Date | PMR Sample Type | Field Parameter | Field Measurement | Measurement Units | Field Sample ID |
|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/08/2019 | WG[a] | Dissolved Oxygen | 7.08 | mg/L[b] | CAWA-19-166399 |
| R-27 | 852.0 | 03/09/2018 | WG | Dissolved Oxygen | 6.93 | mg/L | CAWA-18-151436 |
| R-27 | 852.0 | 03/24/2017 | WG | Dissolved Oxygen | 7.04 | mg/L | CAWA-17-130485 |
| R-27 | 852.0 | 03/18/2016 | WG | Dissolved Oxygen | 7.19 | mg/L | CAWA-16-110752 |
| R-27 | 852.0 | 02/06/2015 | WG | Dissolved Oxygen | 7.02 | mg/L | CAWA-15-91341 |
| R-27 | 852.0 | 02/08/2019 | WG | Flow (in gpm[c]) | 3.9 | gal/min | CAWA-19-166399 |
| R-27 | 852.0 | 03/09/2018 | WG | Flow (in gpm) | 4.05 | gal/min | CAWA-18-151436 |
| R-27 | 852.0 | 03/24/2017 | WG | Flow (in gpm) | 3.84 | gal/min | CAWA-17-130485 |
| R-27 | 852.0 | 03/18/2016 | WG | Flow (in gpm) | 3.41 | gal/min | CAWA-16-110752 |
| R-27 | 852.0 | 02/06/2015 | WG | Flow (in gpm) | 3.33 | gal/min | CAWA-15-91341 |
| R-27 | 852.0 | 02/08/2019 | WG | Oxidation-Reduction Potential | 88.6 | mV[d] | CAWA-19-166399 |
| R-27 | 852.0 | 03/09/2018 | WG | Oxidation-Reduction Potential | 85.1 | mV | CAWA-18-151436 |
| R-27 | 852.0 | 03/24/2017 | WG | Oxidation-Reduction Potential | 58.8 | mV | CAWA-17-130485 |
| R-27 | 852.0 | 03/18/2016 | WG | Oxidation-Reduction Potential | 186.3 | mV | CAWA-16-110752 |
| R-27 | 852.0 | 02/06/2015 | WG | Oxidation-Reduction Potential | 64.6 | mV | CAWA-15-91341 |
| R-27 | 852.0 | 02/08/2019 | WG | pH | 7.95 | SU[e] | CAWA-19-166399 |
| R-27 | 852.0 | 03/09/2018 | WG | pH | 7.89 | SU | CAWA-18-151436 |
| R-27 | 852.0 | 03/24/2017 | WG | pH | 7.94 | SU | CAWA-17-130485 |
| R-27 | 852.0 | 03/18/2016 | WG | pH | 7.77 | SU | CAWA-16-110752 |
| R-27 | 852.0 | 02/06/2015 | WG | pH | 7.88 | SU | CAWA-15-91341 |
| R-27 | 852.0 | 02/08/2019 | WG | Specific Conductance | 118.9 | µS/cm[f] | CAWA-19-166399 |
| R-27 | 852.0 | 03/09/2018 | WG | Specific Conductance | 118.7 | µS/cm | CAWA-18-151436 |
| R-27 | 852.0 | 03/24/2017 | WG | Specific Conductance | 119.2 | µS/cm | CAWA-17-130485 |
| R-27 | 852.0 | 03/18/2016 | WG | Specific Conductance | 124 | µS/cm | CAWA-16-110752 |
| R-27 | 852.0 | 02/06/2015 | WG | Specific Conductance | 120 | µS/cm | CAWA-15-91341 |
| R-27 | 852.0 | 02/08/2019 | WG | Temperature | 16.6 | deg C[g] | CAWA-19-166399 |
| R-27 | 852.0 | 03/09/2018 | WG | Temperature | 18.4 | deg C | CAWA-18-151436 |
| R-27 | 852.0 | 03/24/2017 | WG | Temperature | 18.3 | deg C | CAWA-17-130485 |

| Location ID | Screen Depth | Measurement Date | PMR Sample Type | Field Parameter | Field Measurement | Measurement Units | Field Sample ID |
|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 03/18/2016 | WG | Temperature | 17.69 | deg C | CAWA-16-110752 |
| R-27 | 852.0 | 02/06/2015 | WG | Temperature | 18.39 | deg C | CAWA-15-91341 |
| R-27 | 852.0 | 02/08/2019 | WG | Turbidity | 0.39 | NTU[h] | CAWA-19-166399 |
| R-27 | 852.0 | 03/09/2018 | WG | Turbidity | 0.21 | NTU | CAWA-18-151436 |
| R-27 | 852.0 | 03/24/2017 | WG | Turbidity | 0.34 | NTU | CAWA-17-130485 |
| R-27 | 852.0 | 03/18/2016 | WG | Turbidity | 0.39 | NTU | CAWA-16-110752 |
| R-27 | 852.0 | 02/06/2015 | WG | Turbidity | 0.7 | NTU | CAWA-15-91341 |
| R-27i | 619.0 | 02/08/2019 | WG | Dissolved Oxygen | 8.09 | mg/L | CAWA-19-166404 |
| R-27i | 619.0 | 03/09/2018 | WG | Dissolved Oxygen | 8.1 | mg/L | CAWA-18-151438 |
| R-27i | 619.0 | 03/24/2017 | WG | Dissolved Oxygen | 8.12 | mg/L | CAWA-17-130486 |
| R-27i | 619.0 | 03/18/2016 | WG | Dissolved Oxygen | 8.16 | mg/L | CAWA-16-110753 |
| R-27i | 619.0 | 02/06/2015 | WG | Dissolved Oxygen | 8.14 | mg/L | CAWA-15-91342 |
| R-27i | 619.0 | 02/08/2019 | WG | Flow (in gpm) | 0.57 | gal./min | CAWA-19-166404 |
| R-27i | 619.0 | 03/09/2018 | WG | Flow (in gpm) | 0.57 | gal./min | CAWA-18-151438 |
| R-27i | 619.0 | 03/24/2017 | WG | Flow (in gpm) | 0.52 | gal./min | CAWA-17-130486 |
| R-27i | 619.0 | 03/18/2016 | WG | Flow (in gpm) | 0.57 | gal./min | CAWA-16-110753 |
| R-27i | 619.0 | 02/06/2015 | WG | Flow (in gpm) | 0.65 | gal./min | CAWA-15-91342 |
| R-27i | 619.0 | 02/08/2019 | WG | Oxidation-Reduction Potential | 222 | mV | CAWA-19-166404 |
| R-27i | 619.0 | 03/09/2018 | WG | Oxidation-Reduction Potential | 166.9 | mV | CAWA-18-151438 |
| R-27i | 619.0 | 03/24/2017 | WG | Oxidation-Reduction Potential | 253.8 | mV | CAWA-17-130486 |
| R-27i | 619.0 | 03/18/2016 | WG | Oxidation-Reduction Potential | 293.9 | mV | CAWA-16-110753 |
| R-27i | 619.0 | 02/06/2015 | WG | Oxidation-Reduction Potential | 118.6 | mV | CAWA-15-91342 |
| R-27i | 619.0 | 02/08/2019 | WG | pH | 7.11 | SU | CAWA-19-166404 |
| R-27i | 619.0 | 03/09/2018 | WG | pH | 7.01 | SU | CAWA-18-151438 |
| R-27i | 619.0 | 03/24/2017 | WG | pH | 6.96 | SU | CAWA-17-130486 |
| R-27i | 619.0 | 03/18/2016 | WG | pH | 6.68 | SU | CAWA-16-110753 |
| R-27i | 619.0 | 02/06/2015 | WG | pH | 6.88 | SU | CAWA-15-91342 |
| R-27i | 619.0 | 02/08/2019 | WG | Specific Conductance | 101.4 | µS/cm | CAWA-19-166404 |

| Location ID | Screen Depth | Measurement Date | PMR Sample Type | Field Parameter | Field Measurement | Measurement Units | Field Sample ID |
|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 03/09/2018 | WG | Specific Conductance | 102 | µS/cm | CAWA-18-151438 |
| R-27i | 619.0 | 03/24/2017 | WG | Specific Conductance | 102.4 | µS/cm | CAWA-17-130486 |
| R-27i | 619.0 | 03/18/2016 | WG | Specific Conductance | 107 | µS/cm | CAWA-16-110753 |
| R-27i | 619.0 | 02/06/2015 | WG | Specific Conductance | 0.6 | µS/cm | CAWA-15-91342 |
| R-27i | 619.0 | 02/08/2019 | WG | Temperature | 12.7 | deg C | CAWA-19-166404 |
| R-27i | 619.0 | 03/09/2018 | WG | Temperature | 13.8 | deg C | CAWA-18-151438 |
| R-27i | 619.0 | 03/24/2017 | WG | Temperature | 13.4 | deg C | CAWA-17-130486 |
| R-27i | 619.0 | 03/18/2016 | WG | Temperature | 13.97 | deg C | CAWA-16-110753 |
| R-27i | 619.0 | 02/06/2015 | WG | Temperature | 13.48 | deg C | CAWA-15-91342 |
| R-27i | 619.0 | 02/08/2019 | WG | Turbidity | 0.87 | NTU | CAWA-19-166404 |
| R-27i | 619.0 | 03/09/2018 | WG | Turbidity | 0.29 | NTU | CAWA-18-151438 |
| R-27i | 619.0 | 03/24/2017 | WG | Turbidity | 0.6 | NTU | CAWA-17-130486 |
| R-27i | 619.0 | 03/18/2016 | WG | Turbidity | 0.56 | NTU | CAWA-16-110753 |
| R-27i | 619.0 | 02/06/2015 | WG | Turbidity | 1.2 | NTU | CAWA-15-91342 |
| R-29 | 1170.0 | 02/05/2019 | WG | Dissolved Oxygen | 6.14 | mg/L | CAAN-19-166406 |
| R-29 | 1170.0 | 03/06/2018 | WG | Dissolved Oxygen | 5.54 | mg/L | CAAN-18-151443 |
| R-29 | 1170.0 | 09/22/2017 | WG | Dissolved Oxygen | 5.3 | mg/L | CAAN-17-144826 |
| R-29 | 1170.0 | 03/27/2017 | WG | Dissolved Oxygen | 6.32 | mg/L | CAAN-17-130479 |
| R-29 | 1170.0 | 08/26/2016 | WG | Dissolved Oxygen | 6.07 | mg/L | CAAN-16-124887 |
| R-29 | 1170.0 | 02/05/2019 | WG | Flow (in gpm) | 7.69 | gal./min | CAAN-19-166406 |
| R-29 | 1170.0 | 03/06/2018 | WG | Flow (in gpm) | 7.5 | gal./min | CAAN-18-151443 |
| R-29 | 1170.0 | 09/22/2017 | WG | Flow (in gpm) | 7.69 | gal./min | CAAN-17-144826 |
| R-29 | 1170.0 | 03/27/2017 | WG | Flow (in gpm) | 7.32 | gal./min | CAAN-17-130479 |
| R-29 | 1170.0 | 08/26/2016 | WG | Flow (in gpm) | 6.81 | gal./min | CAAN-16-124887 |
| R-29 | 1170.0 | 02/05/2019 | WG | Oxidation-Reduction Potential | 162.3 | mV | CAAN-19-166406 |
| R-29 | 1170.0 | 03/06/2018 | WG | Oxidation-Reduction Potential | 161.1 | mV | CAAN-18-151443 |
| R-29 | 1170.0 | 09/22/2017 | WG | Oxidation-Reduction Potential | 241.4 | mV | CAAN-17-144826 |
| R-29 | 1170.0 | 03/27/2017 | WG | Oxidation-Reduction Potential | 67.7 | mV | CAAN-17-130479 |

| Location ID | Screen Depth | Measurement Date | PMR Sample Type | Field Parameter | Field Measurement | Measurement Units | Field Sample ID |
|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 08/26/2016 | WG | Oxidation-Reduction Potential | 78.3 | mV | CAAN-16-124887 |
| R-29 | 1170.0 | 02/05/2019 | WG | pH | 8.05 | SU | CAAN-19-166406 |
| R-29 | 1170.0 | 03/06/2018 | WG | pH | 8 | SU | CAAN-18-151443 |
| R-29 | 1170.0 | 09/22/2017 | WG | pH | 8.14 | SU | CAAN-17-144826 |
| R-29 | 1170.0 | 03/27/2017 | WG | pH | 7.86 | SU | CAAN-17-130479 |
| R-29 | 1170.0 | 08/26/2016 | WG | pH | 8.12 | SU | CAAN-16-124887 |
| R-29 | 1170.0 | 02/05/2019 | WG | Specific Conductance | 116.9 | µS/cm | CAAN-19-166406 |
| R-29 | 1170.0 | 03/06/2018 | WG | Specific Conductance | 120.5 | µS/cm | CAAN-18-151443 |
| R-29 | 1170.0 | 09/22/2017 | WG | Specific Conductance | 120.4 | µS/cm | CAAN-17-144826 |
| R-29 | 1170.0 | 03/27/2017 | WG | Specific Conductance | 121.4 | µS/cm | CAAN-17-130479 |
| R-29 | 1170.0 | 08/26/2016 | WG | Specific Conductance | 122.7 | µS/cm | CAAN-16-124887 |
| R-29 | 1170.0 | 02/05/2019 | WG | Temperature | 18.1 | deg C | CAAN-19-166406 |
| R-29 | 1170.0 | 03/06/2018 | WG | Temperature | 18.2 | deg C | CAAN-18-151443 |
| R-29 | 1170.0 | 09/22/2017 | WG | Temperature | 19.5 | deg C | CAAN-17-144826 |
| R-29 | 1170.0 | 03/27/2017 | WG | Temperature | 18.8 | deg C | CAAN-17-130479 |
| R-29 | 1170.0 | 08/26/2016 | WG | Temperature | 19.4 | deg C | CAAN-16-124887 |
| R-29 | 1170.0 | 02/05/2019 | WG | Turbidity | 4.44 | NTU | CAAN-19-166406 |
| R-29 | 1170.0 | 03/06/2018 | WG | Turbidity | 8.71 | NTU | CAAN-18-151443 |
| R-29 | 1170.0 | 09/22/2017 | WG | Turbidity | 6.31 | NTU | CAAN-17-144826 |
| R-29 | 1170.0 | 03/27/2017 | WG | Turbidity | 7.74 | NTU | CAAN-17-130479 |
| R-29 | 1170.0 | 08/26/2016 | WG | Turbidity | 7.74 | NTU | CAAN-16-124887 |
| R-30 | 1140.0 | 02/06/2019 | WG | Dissolved Oxygen | 6.92 | mg/L | CAAN-19-166487 |
| R-30 | 1140.0 | 03/07/2018 | WG | Dissolved Oxygen | 6.97 | mg/L | CAAN-18-151446 |
| R-30 | 1140.0 | 09/22/2017 | WG | Dissolved Oxygen | 7 | mg/L | CAAN-17-144829 |
| R-30 | 1140.0 | 03/27/2017 | WG | Dissolved Oxygen | 6.92 | mg/L | CAAN-17-130480 |
| R-30 | 1140.0 | 08/26/2016 | WG | Dissolved Oxygen | 6.82 | mg/L | CAAN-16-124883 |
| R-30 | 1140.0 | 02/06/2019 | WG | Flow (in gpm) | 5 | gal./min | CAAN-19-166487 |
| R-30 | 1140.0 | 03/07/2018 | WG | Flow (in gpm) | 5.45 | gal./min | CAAN-18-151446 |

| Location ID | Screen Depth | Measurement Date | PMR Sample Type | Field Parameter | Field Measurement | Measurement Units | Field Sample ID |
|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 09/22/2017 | WG | Flow (in gpm) | 5.7 | gal./min | CAAN-17-144829 |
| R-30 | 1140.0 | 03/27/2017 | WG | Flow (in gpm) | 5.38 | gal./min | CAAN-17-130480 |
| R-30 | 1140.0 | 08/26/2016 | WG | Flow (in gpm) | 5.45 | gal./min | CAAN-16-124883 |
| R-30 | 1140.0 | 02/06/2019 | WG | Oxidation-Reduction Potential | 180.1 | mV | CAAN-19-166487 |
| R-30 | 1140.0 | 03/07/2018 | WG | Oxidation-Reduction Potential | 171.4 | mV | CAAN-18-151446 |
| R-30 | 1140.0 | 09/22/2017 | WG | Oxidation-Reduction Potential | 292.2 | mV | CAAN-17-144829 |
| R-30 | 1140.0 | 03/27/2017 | WG | Oxidation-Reduction Potential | 205.3 | mV | CAAN-17-130480 |
| R-30 | 1140.0 | 08/26/2016 | WG | Oxidation-Reduction Potential | 168.7 | mV | CAAN-16-124883 |
| R-30 | 1140.0 | 02/06/2019 | WG | pH | 8.16 | SU | CAAN-19-166487 |
| R-30 | 1140.0 | 03/07/2018 | WG | pH | 8.08 | SU | CAAN-18-151446 |
| R-30 | 1140.0 | 09/22/2017 | WG | pH | 8.1 | SU | CAAN-17-144829 |
| R-30 | 1140.0 | 03/27/2017 | WG | pH | 7.89 | SU | CAAN-17-130480 |
| R-30 | 1140.0 | 08/26/2016 | WG | pH | 8.2 | SU | CAAN-16-124883 |
| R-30 | 1140.0 | 02/06/2019 | WG | Specific Conductance | 116.7 | µS/cm | CAAN-19-166487 |
| R-30 | 1140.0 | 03/07/2018 | WG | Specific Conductance | 118 | µS/cm | CAAN-18-151446 |
| R-30 | 1140.0 | 09/22/2017 | WG | Specific Conductance | 118.8 | µS/cm | CAAN-17-144829 |
| R-30 | 1140.0 | 03/27/2017 | WG | Specific Conductance | 119.1 | µS/cm | CAAN-17-130480 |
| R-30 | 1140.0 | 08/26/2016 | WG | Specific Conductance | 119.8 | µS/cm | CAAN-16-124883 |
| R-30 | 1140.0 | 02/06/2019 | WG | Temperature | 16 | deg C | CAAN-19-166487 |
| R-30 | 1140.0 | 03/07/2018 | WG | Temperature | 19.6 | deg C | CAAN-18-151446 |
| R-30 | 1140.0 | 09/22/2017 | WG | Temperature | 20.2 | deg C | CAAN-17-144829 |
| R-30 | 1140.0 | 03/27/2017 | WG | Temperature | 19.7 | deg C | CAAN-17-130480 |
| R-30 | 1140.0 | 08/26/2016 | WG | Temperature | 20.1 | deg C | CAAN-16-124883 |
| R-30 | 1140.0 | 02/06/2019 | WG | Turbidity | 3.53 | NTU | CAAN-19-166487 |
| R-30 | 1140.0 | 03/07/2018 | WG | Turbidity | 0.32 | NTU | CAAN-18-151446 |
| R-30 | 1140.0 | 09/22/2017 | WG | Turbidity | 0.28 | NTU | CAAN-17-144829 |
| R-30 | 1140.0 | 03/27/2017 | WG | Turbidity | 0.65 | NTU | CAAN-17-130480 |
| R-30 | 1140.0 | 08/26/2016 | WG | Turbidity | 0.5 | NTU | CAAN-16-124883 |

[a] WG = Groundwater.

[b] mg/L = Milligrams per liter.

[c] gpm = Gallons per minute.

[d] mV = Millivolts.

[e] SU = Standard unit.

[f] µS/cm = Microsiemens per centimeter.

[g] deg C = Degrees Celsius.

[h] NTU = Nephelometric turbidity unit.

# Appendix B

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

# Appendix C

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

The following pages provide lists of (1) acronyms, abbreviations, symbols, and various analytical codes; (2) analytical laboratory qualifier codes; and (3) secondary validation flag codes (4) background value sources that may be used in Appendix C. Please note that these are comprehensive lists, and this periodic monitoring report may not include all of the terms in the lists.

## Acronyms and Abbreviations

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

## Acronyms and Abbreviations (continued)

| Acronym, Abbreviation, or Symbol | Description |
|---|---|
| **Miscellaneous (continued)** | |
| IS | internal standard |
| LAL | lower acceptance limit |
| LANL | Los Alamos National Laboratory |
| LCS | laboratory control sample |
| LLEE | low-level electrolytic extraction |
| LOC | level of chlorination |
| LSC | liquid scintillation counting |
| Lvl | level |
| MCL | maximum contaminant level (EPA) |
| MDA | minimum detectable activity |
| MDC | minimum detectable concentration |
| MDL | method detection limit |
| MNX | mononitroso-RDX |
| 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 |
| SU | standard unit |

## Acronyms and Abbreviations (continued)

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

## Acronyms and Abbreviations (continued)

| Acronym, Abbreviation, or Symbol | Description |
|---|---|
| **Field QC Type Codes (continued)** | |
| PEB | performance evaluation blank |
| PEK | performance evaluation known |
| REG | regular |
| RES | resample |
| SS | special sampling event, data unique |
| SS-EQB | equipment blank of special sampling event, data unique |
| SS-FB | field blank of special sampling event, data unique |
| SS-FD | field duplicate of special sampling event, data unique |
| SS-FTB | field trip blank of special sampling event, data unique |
| **Analytical Suite Codes** | |
| DIOX/FUR, Diox/Fur | dioxins and furans |
| DRO | diesel range organics |
| Geninorg, GENINORG, General Chemistry | general inorganics |
| GRO | gasoline range organics |
| HERB | herbicides |
| HEXP | high explosives |
| INORGANIC | inorganics |
| ISOTOPE, Isotope | isotope ratios |
| LCMS/MS | liquid chromatography mass spectrometry/mass spectrometry |
| METALS, Metals | metals |
| PEST/PCB, PESTPCB | pesticides and PCBs |
| RAD, Rad | radiochemistry |
| SVOC, SVOA | semivolatile organic compounds |
| VOC, VOA | volatile organic compounds |
| **Detect Flag and Best Value Flag Codes** | |
| N | no |
| Y | yes |
| **Lab Codes** | |
| ALTC | Alta Analytical Laboratory, Inc., San Diego, CA |
| ARSL | American Radiation Services, Inc. |
| CFA | Cape Fear Analytical, LLC, Wilmington, NC, Division of the GEL Group, Inc., Charleston SC |
| C-INC | Isotope and Nuclear Chemistry Division (LANL) |
| COAST | Coastal Science Laboratories, Austin, TX |
| CST | Chemical Sciences and Technology Division (LANL) |
| EES6 | Hydrology, Geochemistry, and Geology Group (LANL) |
| ESE | Environmental Sciences & Engineering, Inc., Gainesville, FL |
| FLD | measurement taken in field |

## Acronyms and Abbreviations (continued)

| Acronym, Abbreviation, or Symbol | Description |
|---|---|
| **Lab Codes (continued)** | |
| GELC | General Engineering Laboratories, LLC, Division of the GEL Group, Inc., Charleston, SC (used in Environmental Information Management data base) |
| GEO | Geochron Laboratories, Boston, MA |
| HENV | Health and Environmental Laboratory (Johnson Controls, Northern New Mexico) |
| HUFFMAN | Huffman Laboratories, Inc., Golden, CO |
| KA | KEMRON Environmental Services, Inc., Vienna, VA |
| LVLI | Lionville Laboratory, Inc., Philadelphia, PA |
| PARA | Paragon Analytics, Inc., Salt Lake City, UT |
| PEC | Pacific Ecorisk Laboratories, Fairfield, CA |
| QESL | Quanterra Environmental Services, St. Louis, MO |
| QST | QST Environmental, Newberry, FL |
| RECRAP | RECRA Labnet, Lionville, PA |
| RFWC | Roy F. Weston, Inc., West Chester, PA |
| SGSW | Paradigm Analytical Laboratories, Inc., Wilmington, NC |
| SILENS | Stable Isotope Laboratory, Woods Hole, MA |
| STL2, STR | Severn Trent Laboratories, Inc., Richland, WA (historical) |
| STLA | Severn Trent Laboratories, Inc., Los Angeles, CA |
| STSL | Severn Trent Laboratories, Inc., St. Louis, MO |
| SwRI | Southwest Research Institute, San Antonio, TX |
| UAZ | University of Arizona, Tucson |
| UIL | University of Illinois, Urbana-Champaign |
| UMTL | University of Miami Tritium Lab |

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

**Analytical Laboratory Qualifier Codes**

| Code | Description |
|---|---|
| * | (Inorganic)—Duplicate analysis (relative percent difference [RPD]) not within control limits. |
| B | (Organic)—Analyte was present in the blank and the sample. (Inorganic) —Reported value was obtained from a reading that was less than the contract-required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL). |
| BJ | See B code and see J code. |
| BJP | See B code, see J code, and see P code. |
| BPX | (B) (Organic)—This analyte was detected in the associated laboratory method blank and the sample. (B) (Inorganic)—The result for this analyte was greater than the IDL but less than the CRDL. (P) (Pesticides/PCBs)—The quantitative results for this analyte between the primary and secondary gas chromatography (GC) columns were greater than 25% difference. (P) (SW-846 EPA Method 8310, High-Pressure Liquid Chromatography, [HPLC] Results)—The quantitative results for this analyte between the primary and secondary HPLC columns or primary and secondary HPLC detectors were greater than 40% difference. (X) (Organic/Inorganic)—The result for this analyte should be regarded as not detected. |
| D | The result for this analyte was reported from a dilution. |
| DJ | See D code and see J code. |
| DNA | Did not analyze because equipment was broken. |
| E | (Organic) Analyte exceeded the concentration range. (Inorganic) The serial dilution was exceeded. |
| E* | See E code and see * code. |
| EJ | See E code and see J code. |
| EJ* | See E code, see J code, and see * code. |
| EJN | (E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (inductively coupled plasma atomic [optical] emission spectroscopy [ICPAES])—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (graphite furnace atomic absorption [GFAA])—The result for this analyte failed one or more Control Laboratory Program (CLP) acceptance criteria as explained in the case narrative. (J) (Organic/General Inorganics)—The result for this analyte was greater than the method detection limit (MDL) but less than the practical quantitation limit (PQL). (N) (Organic)—The reported analyte is a tentatively identified compound (TIC). (N) (Inorganic)—The result for this analyte in the matrix spike (MS) sample was outside acceptance criteria. |
| EN | See E code and see N code. |
| EN* | (E) (Organic)—The result for this analyte exceeded the upper range of the instrument initial calibration curve. (E) (Inorganic) (ICPAES)—The result for this analyte in the serial dilution analysis was outside acceptance criteria. (E) (Inorganic) (GFAA)—The result for this analyte failed one or more CLP acceptance criteria as explained in the case narrative. (N) (Organic)—The reported analyte is a TIC. (N) (Inorganic)—The result for this analyte in the MS sample was outside acceptance criteria. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria. |
| H | (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. |

## Analytical Laboratory Qualifier Codes (continued)

| Code | Description |
|---|---|
| H* | (H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Organic) and (Inorganic)—The result for this analyte in the laboratory control sample analysis was outside acceptance criteria. |
| HJ | See H code and see J code. |
| HJ* | (H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. (J) (Organic/General Inorganics)—The result for this analyte was greater than the MDL but less than the PQL. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria. |
| INS | (d15N)—The d15N of nitrate is a signature of the nitrate present in a sample. Therefore, nitrate has to be present to have a signature. A d15N value cannot be given to a blank because the blank does not have nitrate. This is different from most analytical methods, where a blank is run with the designator “nondetect” or “detected, but below detection limit.” |
| J | (Inorganic)—The associated numerical value is an estimated quantity. (Organic)—The associated numerical value is an estimated quantity. |
| J* | See J code and see * code. |
| JB | See J code and see B code |
| JN | See J code and see N code. |
| JN* | See J code, see N code, and see * code. |
| JP | See J code and see P code. |
| JQ | See J code and see Q code. |
| N | (Inorganic)—Spiked sample recovery was not within control limits. |
| N* | See N code and see * code. |
| N*E | See N code, see * code, and see E code. |
| NE | See N code and see E code. |
| P | Percent difference between the results on the two columns during the analysis differed by more than 40%. |
| PJ | See P code and see J code. |
| Q | One or more quality control criteria have not been met. Refer to the applicable narrative or data exception report. |
| U | The material was analyzed for but was not detected above the level of the associated numeric value. |
| U* | See U code and see * code. |
| UD | See U code and see D code. |
| UE | See U code and see E code. |
| UE* | See U code, see E code, and see * code. |
| UEN | See U code, see E code, and see N code. |
| UH | See U code and see H code. |

## Analytical Laboratory Qualifier Codes (continued)

| Code | Description |
|---|---|
| UH* | (U) (Organic/Inorganic)—The result for this analyte was not detected at the specified reporting limit. (H) (Organic/Inorganic)—The required extraction or analysis holding time for this result was exceeded. * (Inorganic)—The result for this analyte in the laboratory replicate analysis was outside acceptance criteria. |
| UI | (Rad) Gamma spectroscopy result should be regarded as an uncertain identification. |
| UN | EPA flag (Inorganic)—Compound was analyzed for but was not detected. Spiked sample recovery was not within control limits. |
| UN* | EPA flag (Inorganic)—See U code, see N code, and see * code. |
| UUI | (Rad) Gamma spectroscopy result should be regarded as an uncertain identification, and the analytical lab assigned these gamma spectroscopy results as not detected. |
| X | Consult case narrative, data summary package, or project manager concerning the qualifier. |

## Secondary Validation Flag Codes

| Code | Description |
|---|---|
| A | The contractually required supporting documentation for this datum is absent. |
| I | The calculated sums are considered incomplete because of the lack of one or more congener results. |
| J | The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual. |
| J- | The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential negative bias. |
| J+ | The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential positive bias. |
| JN- | Presumptive evidence of the presence of the material is at an estimated quantity with a suspected negative bias. |
| JN+ | Presumptive evidence of the presence of the material is at an estimated quantity with a suspected positive bias. |
| N | There is presumptive evidence of the presence of the material. |
| NJ | (Organic) Analyte has been tentatively identified, and the associated numerical value is estimated based upon a 1:1 response factor to the nearest eluting internal standard. |
| NQ | No validation qualifier flag is associated with this result, and the analyte is classified as detected. |
| PM | Manual review of raw data is recommended to determine if the observed noncompliances with quality acceptance criteria adversely impact data use. |
| R | The reported sample result is classified as rejected because of serious noncompliances regarding quality control (QC) acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone. |
| U | The analyte is classified as not detected. |
| UJ | The analyte is classified as not detected, with an expectation that the reported result is more uncertain than usual. |

**Background Values**

| Symbol | Background Values |
|---|---|
| — | No background values available |
| *i | Intermediate 95% background level reported in the “Groundwater Background Investigation Report, Revision 5” (LANL 2016, 601920) |
| *r | Regional 95% background level reported in the “Groundwater Background Investigation Report, Revision 5” (LANL 2016, 601920) |

Note: Background values in Table C-1 are upper tolerance limits reported in the “Groundwater Background Investigation Report, Revision 5” (LANL 2016, 601920) unless otherwise noted.

## 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. This information is also included in text citations. ERIDs were assigned by Los Alamos National Laboratory (LANL) 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 Newport News Nuclear BWXT-Los Alamos, LLC (N3B) (IDs 700000 and above). IDs are used to locate documents in N3B’s Records Management System and in the Master Reference Set. The New Mexico Environment Department (NMED) Hazardous Waste Bureau and N3B maintain copies of the Master Reference Set. The set ensures that NMED has the references to review documents. The set is updated when new references are cited in documents.*

LANL (Los Alamos National Laboratory), 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 | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthene | 83-32-9 | N | 0.3 | — | 535 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthylene | 208-96-8 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetone | 67-64-1 | N | 1.5 | — | 14100 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetonitrile | 75-05-8 | N | 8.0 | — | 130 | — | — | 8.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.95 | — | — | — | — | 0.01 | SU | Y | H | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrolein | 107-02-8 | N | 1.5 | — | 0.0415 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrylonitrile | 107-13-1 | N | 1.5 | — | 0.523 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3 | ALK-CO3 | N | 1.45 | — | — | — | — | 1.45 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57.6 | — | — | 72.9 | — | 1.45 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Aluminum | Al | N | 68.0 | — | 5000 | 68*[r] | — | 68.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00215 | 0.0057 | — | 0.0167*[r] | 0.0394 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.017 | — | — | 0.1*[r] | — | 0.017 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Aniline | 62-53-3 | N | 4.2 | — | 130 | — | — | 4.2 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Anthracene | 120-12-7 | N | 0.3 | — | 1720 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Antimony | Sb | N | 1.0 | — | 6 | 1*[r] | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | N | 2.0 | — | 10 | 2.7*[r] | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Atrazine | 1912-24-9 | N | 3.0 | — | 3 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Azobenzene | 103-33-3 | N | 3.0 | — | 1.2 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 27.2 | — | 2000 | 38.1 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Benzene | 71-43-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzidine | 92-87-5 | N | 3.9 | — | 0.00109 | — | — | 3.9 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)anthracene | 56-55-3 | N | 0.3 | — | 0.12 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)pyrene | 50-32-8 | N | 0.3 | — | 0.2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(b)fluoranthene | 205-99-2 | N | 0.3 | — | 0.343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(g,h,i)perylene | 191-24-2 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(k)fluoranthene | 207-08-9 | N | 0.3 | — | 3.43 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzoic Acid | 65-85-0 | N | 6.0 | — | 75000 | — | — | 6.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzyl Alcohol | 100-51-6 | N | 3.0 | — | 2000 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Beryllium | Be | N | 1.0 | — | 4 | 1*[r] | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethoxy)methane | 111-91-1 | N | 3.0 | — | 59 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethyl)ether | 111-44-4 | N | 3.0 | — | 0.137 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 0.3 | — | 6 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Boron | B | N | 15.0 | — | 750 | 18.7*[r] | — | 15.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Bromide | Br(-1) | N | 0.067 | — | — | 0.067*[r] | — | 0.067 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromobenzene | 108-86-1 | N | 0.3 | — | 62 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromochloromethane | 74-97-5 | N | 0.3 | — | 83 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromodichloromethane | 75-27-4 | N | 0.3 | — | 1.34 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromoform | 75-25-2 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromomethane | 74-83-9 | N | 0.3 | — | 7.54 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bromophenyl-phenylether[4-] | 101-55-3 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanol[1-] | 71-36-3 | N | 15.0 | — | 2000 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanone[2-] | 78-93-3 | N | 1.5 | — | 5560 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[n-] | 104-51-8 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[sec-] | 135-98-8 | N | 0.3 | — | 2000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[tert-] | 98-06-6 | N | 0.3 | — | 690 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Butylbenzylphthalate | 85-68-7 | N | 0.3 | — | 160 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Cadmium | Cd | N | 0.3 | — | 5 | 0.11*[r] | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.6 | — | — | 17.03 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Disulfide | 75-15-0 | N | 1.5 | — | 810 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Tetrachloride | 56-23-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -3.01 | 1.4 | — | 2.93*[r] | 4.07 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.47 | — | 250000 | 2.7 | — | 0.067 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1,3-butadiene[2-] | 126-99-8 | N | 0.3 | — | 0.187 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1-propene[3-] | 107-05-1 | N | 1.5 | — | 7.3 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloro-3-methylphenol[4-] | 59-50-7 | N | 3.0 | — | 1400 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloroaniline[4-] | 106-47-8 | N | 3.3 | — | 3.7 | — | — | 3.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorobenzene | 108-90-7 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorodibromomethane | 124-48-1 | N | 0.3 | — | 1.68 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroethane | 75-00-3 | N | 0.3 | — | 20900 | — | — | 0.3 | µg/L | Y | U | UJ | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroform | 67-66-3 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloromethane | 74-87-3 | N | 0.3 | — | 20.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloronaphthalene[2-] | 91-58-7 | N | 0.41 | — | 733 | — | — | 0.41 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenol[2-] | 95-57-8 | N | 3.0 | — | 91 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenyl-phenyl[4-] Ether | 7005-72-3 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[2-] | 95-49-8 | N | 0.3 | — | 233 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[4-] | 106-43-4 | N | 0.3 | — | 250 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Chromium | Cr | N | 3.0 | — | 50 | 7.48 | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chrysene | 218-01-9 | N | 0.3 | — | 34.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Cobalt | Co | N | 1.0 | — | 50 | 1*[r] | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 0.0168 | 0.844 | — | 2.65*[r] | 3.3 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Copper | Cu | N | 3.0 | — | 1000 | 3*[r] | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | INORGANIC | EPA:335.4 | Cyanide (Total) | CN(TOTAL) | N | 0.00167 | — | 200 | 0.0017*[r] | — | 0.00167 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenz(a,h)anthracene | 53-70-3 | N | 0.3 | — | 0.0343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenzofuran | 132-64-9 | N | 3.0 | — | 7.9 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromo-3-Chloropropane[1,2-] | 96-12-8 | N | 0.5 | — | 0.2 | — | — | 0.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromoethane[1,2-] | 106-93-4 | N | 0.3 | — | 0.05 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromomethane | 74-95-3 | N | 0.3 | — | 0.0747 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,2-] | 95-50-1 | N | 0.3 | — | 600 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,2-] | 95-50-1 | N | 3.0 | — | 600 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,3-] | 541-73-1 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,3-] | 541-73-1 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,4-] | 106-46-7 | N | 0.3 | — | 75 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,4-] | 106-46-7 | N | 3.0 | — | 75 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzidine[3,3'-] | 91-94-1 | N | 3.0 | — | 1.25 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorodifluoromethane | 75-71-8 | N | 0.3 | — | 197 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,1-] | 75-34-3 | N | 0.3 | — | 25 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,2-] | 107-06-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[1,1-] | 75-35-4 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[cis-1,2-] | 156-59-2 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[trans-1,2-] | 156-60-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorophenol[2,4-] | 120-83-2 | N | 3.0 | — | 45.3 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,2-] | 78-87-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,3-] | 142-28-9 | N | 0.3 | — | 370 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[2,2-] | 594-20-7 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[1,1-] | 563-58-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[cis-1,3-] | 10061-01-5 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[trans-1,3-] | 10061-02-6 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Diethyl Ether | 60-29-7 | N | 0.3 | — | 3930 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diethylphthalate | 84-66-2 | N | 0.3 | — | 14800 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethyl Phthalate | 131-11-3 | N | 0.3 | — | 612 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethylphenol[2,4-] | 105-67-9 | N | 3.0 | — | 354 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-butylphthalate | 84-74-2 | N | 0.3 | — | 885 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitro-2-methylphenol[4,6-] | 534-52-1 | N | 3.0 | — | 1.52 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrophenol[2,4-] | 51-28-5 | N | 5.0 | — | 38.7 | — | — | 5.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,4-] | 121-14-2 | N | 3.0 | — | 2.37 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,6-] | 606-20-2 | N | 3.0 | — | 0.485 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-octylphthalate | 117-84-0 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinoseb | 88-85-7 | N | 3.0 | — | 7 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dioxane[1,4-] | 123-91-1 | N | 3.0 | — | 4.59 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diphenylamine | 122-39-4 | N | 3.0 | — | 122 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethyl Methacrylate | 97-63-2 | N | 1.5 | — | 455 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethylbenzene | 100-41-4 | N | 0.3 | — | 700 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluoranthene | 206-44-0 | N | 0.3 | — | 802 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluorene | 86-73-7 | N | 0.3 | — | 288 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.268 | — | 1600 | 0.377 | — | 0.033 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.42 | 0.844 | 15.0 | 2.012*[r] | 2.75 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 2.2 | 0.814 | — | 3.81*[r] | 2.56 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 39.4 | — | — | 67.1 | — | 0.453 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobenzene | 118-74-1 | N | 3.0 | — | 1 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexachlorobutadiene | 87-68-3 | N | 0.3 | — | 1.39 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobutadiene | 87-68-3 | N | 3.0 | — | 1.39 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorocyclopentadiene | 77-47-4 | N | 3.0 | — | 50 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachloroethane | 67-72-1 | N | 3.0 | — | 3.28 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexanone[2-] | 591-78-6 | N | 1.5 | — | 38 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Indeno(1,2,3-cd)pyrene | 193-39-5 | N | 0.3 | — | 0.343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Iodomethane | 74-88-4 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Iron | Fe | N | 30.0 | — | 1000 | 53.8*[r] | — | 30.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isobutyl alcohol | 78-83-1 | N | 15.0 | — | 5910 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Isophorone | 78-59-1 | N | 3.5 | — | 781 | — | — | 3.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropylbenzene | 98-82-8 | N | 0.3 | — | 447 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropyltoluene[4-] | 99-87-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Lead | Pb | N | 0.5 | — | 15 | 0.5*[r] | — | 0.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.1 | — | — | 4.18 | — | 0.11 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | N | 2.0 | — | 200 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | 0.067*[r] | — | 0.067 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | — | — | 0.067 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methacrylonitrile | 126-98-7 | N | 1.5 | — | 1.91 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl Methacrylate | 80-62-6 | N | 1.5 | — | 1390 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl tert-Butyl Ether | 1634-04-4 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl-2-pentanone[4-] | 108-10-1 | N | 1.5 | — | 1240 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methylene Chloride | 75-09-2 | N | 1.0 | — | 5 | — | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[1-] | 90-12-0 | N | 0.3 | — | 11.4 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[2-] | 91-57-6 | N | 0.3 | — | 35.1 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[2-] | 95-48-7 | N | 3.0 | — | 930 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[3-,4-] | 65794-96-9 | N | 3.7 | — | 930 | — | — | 3.7 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.13 | — | 1000 | 2.5 | — | 0.2 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Naphthalene | 91-20-3 | N | 0.3 | — | 1.65 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Naphthalene | 91-20-3 | N | 0.3 | — | 1.65 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 1.67 | 1.79 | — | — | 6.78 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | N | 0.6 | — | 200 | 2.9 | — | 0.6 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.284 | — | 10 | 0.769 | — | 0.017 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[2-] | 88-74-4 | N | 3.0 | — | 190 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[3-] | 99-09-2 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[4-] | 100-01-6 | N | 3.0 | — | 38 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrobenzene | 98-95-3 | N | 3.0 | — | 1.4 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[2-] | 88-75-5 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[4-] | 100-02-7 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodiethylamine[N-] | 55-18-5 | N | 3.0 | — | 0.00167 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodimethylamine[N-] | 62-75-9 | N | 3.0 | — | 0.00491 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-butylamine[N-] | 924-16-3 | N | 3.0 | — | 0.0273 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-propylamine[N-] | 621-64-7 | N | 3.0 | — | 0.11 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosopyrrolidine[N-] | 930-55-2 | N | 3.0 | — | 0.37 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Oxybis(1-chloropropane)[2,2'-] | 108-60-1 | N | 3.0 | — | 9.81 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorobenzene | 608-93-5 | N | 3.0 | — | 3.07 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorophenol | 87-86-5 | N | 3.0 | — | 1 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.205 | — | 13.8 | 0.414 | — | 0.05 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenanthrene | 85-01-8 | N | 0.3 | — | 170 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenol | 108-95-2 | N | 3.0 | — | 5 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.00449 | 0.0071 | — | 0.00994*[r] | 0.0491 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.018 | 0.011 | — | 0.0171*[r] | 0.0574 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.22 | — | — | 2.39 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -25.4 | 14.0 | — | 35.6*[r] | 47.7 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propionitrile | 107-12-0 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propylbenzene[1-] | 103-65-1 | N | 0.3 | — | 660 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyrene | 129-00-0 | N | 0.3 | — | 117 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyridine | 110-86-1 | N | 3.0 | — | 20 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Selenium | Se | N | 2.0 | — | 50 | 1.5*[r] | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 67.9 | — | — | 81.9 | — | 0.053 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Silver | Ag | N | 0.3 | — | 50 | 0.2*[r] | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.1 | — | — | 16 | — | 0.1 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -1.78 | 1.0 | — | 1.93*[r] | 3.04 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 128.0 | — | — | — | — | 1.0 | uS/cm | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 49.0 | — | 11800 | 157 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.172 | 0.133 | 8.0 | 0.355*[r] | 0.469 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Styrene | 100-42-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.29 | — | 600 | 4.59 | — | 0.133 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorobenzene[1,2,4,5] | 95-94-3 | N | 3.0 | — | 1.66 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,1,2-] | 630-20-6 | N | 0.3 | — | 5.74 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,2,2-] | 79-34-5 | N | 0.3 | — | 10 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethene | 127-18-4 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorophenol[2,3,4,6-] | 58-90-2 | N | 3.0 | — | 240 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Thallium | Tl | N | 0.6 | — | 2 | 0.45*[r] | — | 0.6 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Tin | Sn | N | 2.5 | — | 12000 | 13*[r] | — | 2.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Toluene | 108-88-3 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 153.0 | — | 1000 | 161 | — | 3.4 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | EPA:351.2 | Total Kjeldahl Nitrogen | TKN | N | 0.033 | — | — | — | — | 0.033 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | N | 0.33 | — | — | 1.08 | — | 0.33 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:365.4 | Total Phosphate as Phosphorus | PO4-P | N | 0.0365 | — | 0.0822*[r] | — | — | 0.02 | mg/L | Y | J | U | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 76-13-1 | N | 2.0 | — | 55000 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,3-] | 87-61-6 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 3.0 | — | 70 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,1-] | 71-55-6 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,2-] | 79-00-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethene | 79-01-6 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorofluoromethane | 75-69-4 | N | 0.3 | — | 1140 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,5-] | 95-95-4 | N | 3.0 | — | 1170 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,6-] | 88-06-2 | N | 3.0 | — | 11.9 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloropropane[1,2,3-] | 96-18-4 | N | 0.3 | — | 0.00835 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,2,4-] | 95-63-6 | N | 0.3 | — | 56 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,3,5-] | 108-67-8 | N | 0.3 | — | 60 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | Generic:Low_Level_Tritium | Tritium | H-3 | N | 1.497 | 0.729 | 20000.0 | 2.06*[r] | 2.259 | — | pCi/L | Y | U | U | N3B-2019-925 | CAWA-19-166400 | ARSL |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.584 | — | 30 | 1.19 | — | 0.067 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.337 | 0.0316 | 27.2 | 0.7150 | 0.0786 | — | pCi/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0337 | 0.0135 | 28.8 | 0.0423*[r] | 0.0727 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.144 | 0.0213 | 30.0 | 0.3360 | 0.0919 | — | pCi/L | Y | — | J | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.49 | — | 63.1 | 11.4 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl acetate | 108-05-4 | N | 1.5 | — | 409 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl Chloride | 75-01-4 | N | 0.3 | — | 2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,2-] | 95-47-6 | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,3-]+Xylene[1,4-] | Xylene[m+p] | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | Y | 4.57 | — | 10000 | 30.7*[r] | — | 3.3 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthene | 83-32-9 | N | 0.316 | — | 535 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthylene | 208-96-8 | N | 0.316 | — | — | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetone | 67-64-1 | N | 1.5 | — | 14100 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetonitrile | 75-05-8 | N | 8.0 | — | 130 | — | — | 8.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.37 | — | — | — | — | 0.01 | SU | Y | H | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrolein | 107-02-8 | N | 1.5 | — | 0.0415 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrylonitrile | 107-13-1 | N | 1.5 | — | 0.523 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3 | ALK-CO3 | N | 1.45 | — | — | — | — | 1.45 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 50.0 | — | — | 62 | — | 1.45 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Aluminum | Al | N | 68.0 | — | 5000 | 68*[j] | — | 68.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | -0.00401 | 0.00567 | — | 0.00829*[j] | 0.0367 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.0266 | — | — | 0.0606*[j] | — | 0.017 | mg/L | Y | J | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Aniline | 62-53-3 | N | 4.42 | — | 130 | — | — | 4.42 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Anthracene | 120-12-7 | N | 0.316 | — | 1720 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Antimony | Sb | N | 1.0 | — | 6 | 1*[j] | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | N | 2.0 | — | 10 | 2.82*[j] | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Atrazine | 1912-24-9 | N | 3.16 | — | 3 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Azobenzene | 103-33-3 | N | 3.16 | — | 1.2 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 9.37 | — | 2000 | 13.5 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Benzene | 71-43-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzidine | 92-87-5 | N | 4.11 | — | 0.00109 | — | — | 4.11 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)anthracene | 56-55-3 | N | 0.316 | — | 0.12 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)pyrene | 50-32-8 | N | 0.316 | — | 0.2 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(b)fluoranthene | 205-99-2 | N | 0.316 | — | 0.343 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(g,h,i)perylene | 191-24-2 | N | 0.316 | — | — | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(k)fluoranthene | 207-08-9 | N | 0.316 | — | 3.43 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzoic Acid | 65-85-0 | N | 6.32 | — | 75000 | — | — | 6.32 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzyl Alcohol | 100-51-6 | N | 3.16 | — | 2000 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Beryllium | Be | N | 1.0 | — | 4 | 1*[j] | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethoxy)methane | 111-91-1 | N | 3.16 | — | 59 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethyl)ether | 111-44-4 | N | 3.16 | — | 0.137 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 0.316 | — | 6 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Boron | B | N | 15.0 | — | 750 | 16.2*[j] | — | 15.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Bromide | Br(-1) | N | 0.067 | — | — | 0.0716*[j] | — | 0.067 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromobenzene | 108-86-1 | N | 0.3 | — | 62 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromochloromethane | 74-97-5 | N | 0.3 | — | 83 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromodichloromethane | 75-27-4 | N | 0.3 | — | 1.34 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromoform | 75-25-2 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromomethane | 74-83-9 | N | 0.3 | — | 7.54 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bromophenyl-phenylether[4-] | 101-55-3 | N | 3.16 | — | — | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanol[1-] | 71-36-3 | N | 15.0 | — | 2000 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanone[2-] | 78-93-3 | N | 1.5 | — | 5560 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[n-] | 104-51-8 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[sec-] | 135-98-8 | N | 0.3 | — | 2000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[tert-] | 98-06-6 | N | 0.3 | — | 690 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Butylbenzylphthalate | 85-68-7 | N | 0.316 | — | 160 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Cadmium | Cd | N | 0.3 | — | 5 | 0.11*[j] | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 8.58 | — | — | 10.7 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Disulfide | 75-15-0 | N | 1.5 | — | 810 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Tetrachloride | 56-23-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -1.49 | 0.933 | — | 2.96*[j] | 3.06 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.22 | — | 250000 | 3.11 | — | 0.067 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1,3-butadiene[2-] | 126-99-8 | N | 0.3 | — | 0.187 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1-propene[3-] | 107-05-1 | N | 1.5 | — | 7.3 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloro-3-methylphenol[4-] | 59-50-7 | N | 3.16 | — | 1400 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloroaniline[4-] | 106-47-8 | N | 3.47 | — | 3.7 | — | — | 3.47 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorobenzene | 108-90-7 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorodibromomethane | 124-48-1 | N | 0.3 | — | 1.68 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroethane | 75-00-3 | N | 0.3 | — | 20900 | — | — | 0.3 | µg/L | Y | U | UJ | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroform | 67-66-3 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloromethane | 74-87-3 | N | 0.3 | — | 20.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloronaphthalene[2-] | 91-58-7 | N | 0.432 | — | 733 | — | — | 0.432 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenol[2-] | 95-57-8 | N | 3.16 | — | 91 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenyl-phenyl[4-] Ether | 7005-72-3 | N | 3.16 | — | — | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[2-] | 95-49-8 | N | 0.3 | — | 233 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[4-] | 106-43-4 | N | 0.3 | — | 250 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Chromium | Cr | N | 3.0 | — | 50 | 2.72*[j] | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chrysene | 218-01-9 | N | 0.316 | — | 34.3 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Cobalt | Co | N | 1.0 | — | 50 | 1*[j] | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.134 | 0.918 | — | 2.68*[j] | 3.53 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Copper | Cu | N | 3.0 | — | 1000 | 3*[j] | — | 3.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | INORGANIC | EPA:335.4 | Cyanide (Total) | CN(TOTAL) | N | 0.00167 | — | 200 | 0.0017*[j] | — | 0.00167 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenz(a,h)anthracene | 53-70-3 | N | 0.316 | — | 0.0343 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenzofuran | 132-64-9 | N | 3.16 | — | 7.9 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromo-3-Chloropropane[1,2-] | 96-12-8 | N | 0.5 | — | 0.2 | — | — | 0.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromoethane[1,2-] | 106-93-4 | N | 0.3 | — | 0.05 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromomethane | 74-95-3 | N | 0.3 | — | 0.0747 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,2-] | 95-50-1 | N | 0.3 | — | 600 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,2-] | 95-50-1 | N | 3.16 | — | 600 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,3-] | 541-73-1 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,3-] | 541-73-1 | N | 3.16 | — | — | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,4-] | 106-46-7 | N | 0.3 | — | 75 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,4-] | 106-46-7 | N | 3.16 | — | 75 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzidine[3,3'-] | 91-94-1 | N | 3.16 | — | 1.25 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorodifluoromethane | 75-71-8 | N | 0.3 | — | 197 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,1-] | 75-34-3 | N | 0.3 | — | 25 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,2-] | 107-06-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[1,1-] | 75-35-4 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[cis-1,2-] | 156-59-2 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[trans-1,2-] | 156-60-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorophenol[2,4-] | 120-83-2 | N | 3.16 | — | 45.3 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,2-] | 78-87-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,3-] | 142-28-9 | N | 0.3 | — | 370 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[2,2-] | 594-20-7 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[1,1-] | 563-58-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[cis-1,3-] | 10061-01-5 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[trans-1,3-] | 10061-02-6 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Diethyl Ether | 60-29-7 | N | 0.3 | — | 3930 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diethylphthalate | 84-66-2 | N | 0.316 | — | 14800 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethyl Phthalate | 131-11-3 | N | 0.316 | — | 612 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethylphenol[2,4-] | 105-67-9 | N | 3.16 | — | 354 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-butylphthalate | 84-74-2 | N | 0.316 | — | 885 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitro-2-methylphenol[4,6-] | 534-52-1 | N | 3.16 | — | 1.52 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrophenol[2,4-] | 51-28-5 | N | 5.26 | — | 38.7 | — | — | 5.26 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,4-] | 121-14-2 | N | 3.16 | — | 2.37 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,6-] | 606-20-2 | N | 3.16 | — | 0.485 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-octylphthalate | 117-84-0 | N | 0.316 | — | 200 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinoseb | 88-85-7 | N | 3.16 | — | 7 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dioxane[1,4-] | 123-91-1 | N | 3.16 | — | 4.59 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diphenylamine | 122-39-4 | N | 3.16 | — | 122 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethyl Methacrylate | 97-63-2 | N | 1.5 | — | 455 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethylbenzene | 100-41-4 | N | 0.3 | — | 700 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluoranthene | 206-44-0 | N | 0.316 | — | 802 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluorene | 86-73-7 | N | 0.316 | — | 288 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.153 | — | 1600 | 0.234 | — | 0.033 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.12 | 0.854 | 15.0 | 3.85*[i] | 2.92 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 2.0 | 0.803 | — | 9.18*[i] | 2.55 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 31.4 | — | — | 37.8 | — | 0.453 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobenzene | 118-74-1 | N | 3.16 | — | 1 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexachlorobutadiene | 87-68-3 | N | 0.3 | — | 1.39 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobutadiene | 87-68-3 | N | 3.16 | — | 1.39 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorocyclopentadiene | 77-47-4 | N | 3.16 | — | 50 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachloroethane | 67-72-1 | N | 3.16 | — | 3.28 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexanone[2-] | 591-78-6 | N | 1.5 | — | 38 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Indeno(1,2,3-cd)pyrene | 193-39-5 | N | 0.316 | — | 0.343 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Iodomethane | 74-88-4 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Iron | Fe | N | 30.0 | — | 1000 | 54.1*[i] | — | 30.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isobutyl alcohol | 78-83-1 | N | 15.0 | — | 5910 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Isophorone | 78-59-1 | N | 3.68 | — | 781 | — | — | 3.68 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropylbenzene | 98-82-8 | N | 0.3 | — | 447 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropyltoluene[4-] | 99-87-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Lead | Pb | N | 0.5 | — | 15 | 0.5*[i] | — | 0.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.42 | — | — | 3.14 | — | 0.11 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | N | 2.0 | — | 200 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | 0.067*[i] | — | 0.067 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | — | — | 0.067 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methacrylonitrile | 126-98-7 | N | 1.5 | — | 1.91 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl Methacrylate | 80-62-6 | N | 1.5 | — | 1390 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl tert-Butyl Ether | 1634-04-4 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl-2-pentanone[4-] | 108-10-1 | N | 1.5 | — | 1240 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methylene Chloride | 75-09-2 | N | 1.0 | — | 5 | — | — | 1.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[1-] | 90-12-0 | N | 0.316 | — | 11.4 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[2-] | 91-57-6 | N | 0.316 | — | 35.1 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[2-] | 95-48-7 | N | 3.16 | — | 930 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[3-,4-] | 65794-96-9 | N | 3.89 | — | 930 | — | — | 3.89 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.91 | — | 1000 | 2.9 | — | 0.2 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Naphthalene | 91-20-3 | N | 0.3 | — | 1.65 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Naphthalene | 91-20-3 | N | 0.316 | — | 1.65 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -1.83 | 1.9 | — | — | 6.72 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | N | 0.6 | — | 200 | 3.65 | — | 0.6 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.106 | — | 10 | 0.459 | — | 0.017 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[2-] | 88-74-4 | N | 3.16 | — | 190 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[3-] | 99-09-2 | N | 3.16 | — | — | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[4-] | 100-01-6 | N | 3.16 | — | 38 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrobenzene | 98-95-3 | N | 3.16 | — | 1.4 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[2-] | 88-75-5 | N | 3.16 | — | — | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[4-] | 100-02-7 | N | 3.16 | — | — | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodiethylamine[N-] | 55-18-5 | N | 3.16 | — | 0.00167 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodimethylamine[N-] | 62-75-9 | N | 3.16 | — | 0.00491 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-butylamine[N-] | 924-16-3 | N | 3.16 | — | 0.0273 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-propylamine[N-] | 621-64-7 | N | 3.16 | — | 0.11 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosopyrrolidine[N-] | 930-55-2 | N | 3.16 | — | 0.37 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Oxybis(1-chloropropane)[2,2'-] | 108-60-1 | N | 3.16 | — | 9.81 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorobenzene | 608-93-5 | N | 3.16 | — | 3.07 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorophenol | 87-86-5 | N | 3.16 | — | 1 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.0957 | — | 13.8 | 0.27 | — | 0.05 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenanthrene | 85-01-8 | N | 0.316 | — | 170 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenol | 108-95-2 | N | 3.16 | — | 5 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.0122 | 0.00808 | — | 0.00732*[l] | 0.0533 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.00974 | 0.0077 | — | 0.0132*[l] | 0.0622 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 0.717 | — | — | 2.35 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 1.14 | 28.6 | — | 38.6*[l] | 39.5 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propionitrile | 107-12-0 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propylbenzene[1-] | 103-65-1 | N | 0.3 | — | 660 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyrene | 129-00-0 | N | 0.316 | — | 117 | — | — | 0.316 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyridine | 110-86-1 | N | 3.16 | — | 20 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Selenium | Se | N | 2.0 | — | 50 | 1.5*[l] | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 68.2 | — | — | 75 | — | 0.053 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Silver | Ag | N | 0.3 | — | 50 | 0.2*[l] | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 9.61 | — | — | 18.2 | — | 0.1 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 0.0611 | 0.9 | — | 2.02*[l] | 3.52 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 121.0 | — | — | — | — | 1.0 | uS/cm | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 45.7 | — | 11800 | 59.6 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0455 | 0.134 | 8.0 | 0.282*[l] | 0.49 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Styrene | 100-42-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.37 | — | 600 | 7.1 | — | 0.133 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorobenzene[1,2,4,5] | 95-94-3 | N | 3.16 | — | 1.66 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,1,2-] | 630-20-6 | N | 0.3 | — | 5.74 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,2,2-] | 79-34-5 | N | 0.3 | — | 10 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethene | 127-18-4 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorophenol[2,3,4,6-] | 58-90-2 | N | 3.16 | — | 240 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Thallium | Tl | N | 0.6 | — | 2 | 0.45*[l] | — | 0.6 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Tin | Sn | N | 2.5 | — | 12000 | 13*[l] | — | 2.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Toluene | 108-88-3 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 146.0 | — | 1000 | 135*[i] | — | 3.4 | mg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | EPA:351.2 | Total Kjeldahl Nitrogen | TKN | N | 0.033 | — | — | — | — | 0.033 | mg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | Y | 0.33 | — | — | 1.35 | — | 0.33 | mg/L | Y | J | J | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:365.4 | Total Phosphate as Phosphorus | PO4-P | N | 0.0262 | — | 0.178*[i] | — | — | 0.02 | mg/L | Y | J | U | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 76-13-1 | N | 2.0 | — | 55000 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,3-] | 87-61-6 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 3.16 | — | 70 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,1-] | 71-55-6 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,2-] | 79-00-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethene | 79-01-6 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorofluoromethane | 75-69-4 | N | 0.3 | — | 1140 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,5-] | 95-95-4 | N | 3.16 | — | 1170 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,6-] | 88-06-2 | N | 3.16 | — | 11.9 | — | — | 3.16 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloropropane[1,2,3-] | 96-18-4 | N | 0.3 | — | 0.00835 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,2,4-] | 95-63-6 | N | 0.3 | — | 56 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,3,5-] | 108-67-8 | N | 0.3 | — | 60 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | Generic:Low_Level_Tritium | Tritium | H-3 | N | 0.701 | 0.749 | 20000.0 | 2.02*[i] | 2.473 | — | pCi/L | Y | U | U | N3B-2019-925 | CAWA-19-166404 | ARSL |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.282 | — | 30 | 0.992 | — | 0.067 | µg/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.187 | 0.025 | 27.2 | 0.477 | 0.0896 | — | pCi/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0192 | 0.0101 | 28.8 | 0.0203*[i] | 0.0829 | — | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.112 | 0.0191 | 30.0 | 0.2010 | 0.105 | — | pCi/L | Y | — | NQ | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 1.86 | — | 63.1 | 9.29 | — | 1.0 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl acetate | 108-05-4 | N | 1.5 | — | 409 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl Chloride | 75-01-4 | N | 0.3 | — | 2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,2-] | 95-47-6 | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,3-]+Xylene[1,4-] | Xylene[m+p] | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | Y | 5.35 | — | 10000 | 17.4*[i] | — | 3.3 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | N | 0.538 | — | — | — | — | 0.538 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | N | 0.538 | — | — | — | — | 0.538 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | 3,5-Dinitroaniline | 618-87-1 | N | 0.323 | — | — | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthene | 83-32-9 | N | 0.3 | — | 535 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthylene | 208-96-8 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetone | 67-64-1 | N | 1.5 | — | 14100 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetonitrile | 75-05-8 | N | 8.0 | — | 130 | — | — | 8.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.07 | — | — | — | — | 0.01 | SU | Y | H | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrolein | 107-02-8 | N | 1.5 | — | 0.0415 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrylonitrile | 107-13-1 | N | 1.5 | — | 0.523 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3 | ALK-CO3 | N | 1.45 | — | — | — | — | 1.45 | mg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58.0 | — | — | 72.9 | — | 1.45 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Aluminum | Al | N | 68.0 | — | 5000 | 68*[f] | — | 68.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | -0.00383 | 0.0108 | — | 0.0167*[f] | 0.035 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Amino-2,6-dinitrotoluene[4-] | 19406-51-0 | N | 0.086 | — | 39 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Amino-4,6-dinitrotoluene[2-] | 35572-78-2 | N | 0.086 | — | 39 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0644 | — | — | 0.1*[f] | — | 0.017 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Aniline | 62-53-3 | N | 4.2 | — | 130 | — | — | 4.2 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Anthracene | 120-12-7 | N | 0.3 | — | 1720 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Antimony | Sb | N | 1.0 | — | 6 | 1*[f] | — | 1.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | N | 2.0 | — | 10 | 2.7*[f] | — | 2.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Atrazine | 1912-24-9 | N | 3.0 | — | 3 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Azobenzene | 103-33-3 | N | 3.0 | — | 1.2 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 15.0 | — | 2000 | 38.1 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Benzene | 71-43-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzidine | 92-87-5 | N | 3.9 | — | 0.00109 | — | — | 3.9 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)anthracene | 56-55-3 | N | 0.3 | — | 0.12 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)pyrene | 50-32-8 | N | 0.3 | — | 0.2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(b)fluoranthene | 205-99-2 | N | 0.3 | — | 0.343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(g,h,i)perylene | 191-24-2 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(k)fluoranthene | 207-08-9 | N | 0.3 | — | 3.43 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzoic Acid | 65-85-0 | N | 6.0 | — | 75000 | — | — | 6.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzyl Alcohol | 100-51-6 | N | 3.0 | — | 2000 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Beryllium | Be | N | 1.0 | — | 4 | 1*[r] | — | 1.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethoxy)methane | 111-91-1 | N | 3.0 | — | 59 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethyl)ether | 111-44-4 | N | 3.0 | — | 0.137 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 0.3 | — | 6 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Boron | B | N | 15.0 | — | 750 | 18.7*[r] | — | 15.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Bromide | Br(-1) | N | 0.067 | — | — | 0.067*[r] | — | 0.067 | mg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromobenzene | 108-86-1 | N | 0.3 | — | 62 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromochloromethane | 74-97-5 | N | 0.3 | — | 83 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromodichloromethane | 75-27-4 | N | 0.3 | — | 1.34 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromoform | 75-25-2 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromomethane | 74-83-9 | N | 0.3 | — | 7.54 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bromophenyl-phenylether[4-] | 101-55-3 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanol[1-] | 71-36-3 | N | 15.0 | — | 2000 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanone[2-] | 78-93-3 | N | 1.5 | — | 5560 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[n-] | 104-51-8 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[sec-] | 135-98-8 | N | 0.3 | — | 2000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[tert-] | 98-06-6 | N | 0.3 | — | 690 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Butylbenzylphthalate | 85-68-7 | N | 0.3 | — | 160 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Cadmium | Cd | N | 0.3 | — | 5 | 0.11*[r] | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.3 | — | — | 17.03 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Disulfide | 75-15-0 | N | 1.5 | — | 810 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Tetrachloride | 56-23-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.849 | 0.715 | — | 2.93*[r] | 2.91 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.62 | — | 250000 | 2.7 | — | 0.067 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1,3-butadiene[2-] | 126-99-8 | N | 0.3 | — | 0.187 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1-propene[3-] | 107-05-1 | N | 1.5 | — | 7.3 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloro-3-methylphenol[4-] | 59-50-7 | N | 3.0 | — | 1400 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloroaniline[4-] | 106-47-8 | N | 3.3 | — | 3.7 | — | — | 3.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorobenzene | 108-90-7 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorodibromomethane | 124-48-1 | N | 0.3 | — | 1.68 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroethane | 75-00-3 | N | 0.3 | — | 20900 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroform | 67-66-3 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloromethane | 74-87-3 | N | 0.3 | — | 20.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloronaphthalene[2-] | 91-58-7 | N | 0.41 | — | 733 | — | — | 0.41 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenol[2-] | 95-57-8 | N | 3.0 | — | 91 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenyl-phenyl[4-] Ether | 7005-72-3 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[2-] | 95-49-8 | N | 0.3 | — | 233 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[4-] | 106-43-4 | N | 0.3 | — | 250 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Chromium | Cr | N | 3.0 | — | 50 | 7.48 | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chrysene | 218-01-9 | N | 0.3 | — | 34.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Cobalt | Co | N | 1.0 | — | 50 | 1*[r] | — | 1.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 0.0638 | 0.625 | — | 2.65*[r] | 2.62 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Copper | Cu | N | 3.0 | — | 1000 | 3*[r] | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | INORGANIC | EPA:335.4 | Cyanide (Total) | CN(TOTAL) | N | 0.00167 | — | 200 | 0.0017*[r] | — | 0.00167 | mg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenz(a,h)anthracene | 53-70-3 | N | 0.3 | — | 0.0343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenzofuran | 132-64-9 | N | 3.0 | — | 7.9 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromo-3-Chloropropane[1,2-] | 96-12-8 | N | 0.5 | — | 0.2 | — | — | 0.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromoethane[1,2-] | 106-93-4 | N | 0.3 | — | 0.05 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromomethane | 74-95-3 | N | 0.3 | — | 0.0747 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,2-] | 95-50-1 | N | 0.3 | — | 600 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,2-] | 95-50-1 | N | 3.0 | — | 600 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,3-] | 541-73-1 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,3-] | 541-73-1 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,4-] | 106-46-7 | N | 0.3 | — | 75 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,4-] | 106-46-7 | N | 3.0 | — | 75 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzidine[3,3'-] | 91-94-1 | N | 3.0 | — | 1.25 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorodifluoromethane | 75-71-8 | N | 0.3 | — | 197 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,1-] | 75-34-3 | N | 0.3 | — | 25 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,2-] | 107-06-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[1,1-] | 75-35-4 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[cis-1,2-] | 156-59-2 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[trans-1,2-] | 156-60-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorophenol[2,4-] | 120-83-2 | N | 3.0 | — | 45.3 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,2-] | 78-87-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,3-] | 142-28-9 | N | 0.3 | — | 370 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[2,2-] | 594-20-7 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[1,1-] | 563-58-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[cis-1,3-] | 10061-01-5 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[trans-1,3-] | 10061-02-6 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Diethyl Ether | 60-29-7 | N | 0.3 | — | 3930 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diethylphthalate | 84-66-2 | N | 0.3 | — | 14800 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethyl Phthalate | 131-11-3 | N | 0.3 | — | 612 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethylphenol[2,4-] | 105-67-9 | N | 3.0 | — | 354 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-butylphthalate | 84-74-2 | N | 0.3 | — | 885 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitro-2-methylphenol[4,6-] | 534-52-1 | N | 3.0 | — | 1.52 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Dinitrobenzene[1,3-] | 99-65-0 | N | 0.086 | — | 2 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrophenol[2,4-] | 51-28-5 | N | 5.0 | — | 38.7 | — | — | 5.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,4-] | 121-14-2 | N | 3.0 | — | 2.37 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Dinitrotoluene[2,4-] | 121-14-2 | N | 0.086 | — | 2.37 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,6-] | 606-20-2 | N | 3.0 | — | 0.485 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Dinitrotoluene[2,6-] | 606-20-2 | N | 0.086 | — | 0.485 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-octylphthalate | 117-84-0 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinoseb | 88-85-7 | N | 3.0 | — | 7 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dioxane[1,4-] | 123-91-1 | N | 3.0 | — | 4.59 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diphenylamine | 122-39-4 | N | 3.0 | — | 122 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethyl Methacrylate | 97-63-2 | N | 1.5 | — | 455 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethylbenzene | 100-41-4 | N | 0.3 | — | 700 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluoranthene | 206-44-0 | N | 0.3 | — | 802 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluorene | 86-73-7 | N | 0.3 | — | 288 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.256 | — | 1600 | 0.377 | — | 0.033 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.375 | 0.72 | 15.0 | 2.012*[r] | 2.8 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 1.57 | 0.606 | — | 3.81*[r] | 1.86 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 39.0 | — | — | 67.1 | — | 0.453 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobenzene | 118-74-1 | N | 3.0 | — | 1 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexachlorobutadiene | 87-68-3 | N | 0.3 | — | 1.39 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobutadiene | 87-68-3 | N | 3.0 | — | 1.39 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorocyclopentadiene | 77-47-4 | N | 3.0 | — | 50 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachloroethane | 67-72-1 | N | 3.0 | — | 3.28 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexanone[2-] | 591-78-6 | N | 1.5 | — | 38 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | HMX | 2691-41-0 | N | 0.086 | — | 1000 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Indeno(1,2,3-cd)pyrene | 193-39-5 | N | 0.3 | — | 0.343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Iodomethane | 74-88-4 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Iron | Fe | N | 30.0 | — | 1000 | 53.8*[r] | — | 30.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isobutyl alcohol | 78-83-1 | N | 15.0 | — | 5910 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Isophorone | 78-59-1 | N | 3.5 | — | 781 | — | — | 3.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropylbenzene | 98-82-8 | N | 0.3 | — | 447 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropyltoluene[4-] | 99-87-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Lead | Pb | N | 0.5 | — | 15 | 0.5*[r] | — | 0.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.25 | — | — | 4.18 | — | 0.11 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 3.55 | — | 200 | — | — | 2.0 | µg/L | Y | J | J | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | 0.067*[r] | — | 0.067 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | — | — | 0.067 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methacrylonitrile | 126-98-7 | N | 1.5 | — | 1.91 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl Methacrylate | 80-62-6 | N | 1.5 | — | 1390 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl tert-Butyl Ether | 1634-04-4 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl-2-pentanone[4-] | 108-10-1 | N | 1.5 | — | 1240 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methylene Chloride | 75-09-2 | N | 1.0 | — | 5 | — | — | 1.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[1-] | 90-12-0 | N | 0.3 | — | 11.4 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[2-] | 91-57-6 | N | 0.3 | — | 35.1 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[2-] | 95-48-7 | N | 3.0 | — | 930 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[3-,4-] | 65794-96-9 | N | 3.7 | — | 930 | — | — | 3.7 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.25 | — | 1000 | 2.5 | — | 0.2 | µg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Naphthalene | 91-20-3 | N | 0.3 | — | 1.65 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Naphthalene | 91-20-3 | N | 0.3 | — | 1.65 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 0.685 | 1.57 | — | — | 5.92 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | Y | 1.5 | — | 200 | 2.9 | — | 0.6 | µg/L | Y | J | J | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.309 | — | 10 | 0.769 | — | 0.017 | mg/L | Y | — | J+ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[2-] | 88-74-4 | N | 3.0 | — | 190 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[3-] | 99-09-2 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[4-] | 100-01-6 | N | 3.0 | — | 38 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrobenzene | 98-95-3 | N | 3.0 | — | 1.4 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrobenzene | 98-95-3 | N | 0.086 | — | 1.4 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[2-] | 88-75-5 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[4-] | 100-02-7 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodiethylamine[N-] | 55-18-5 | N | 3.0 | — | 0.00167 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodimethylamine[N-] | 62-75-9 | N | 3.0 | — | 0.00491 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-butylamine[N-] | 924-16-3 | N | 3.0 | — | 0.0273 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-propylamine[N-] | 621-64-7 | N | 3.0 | — | 0.11 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosopyrrolidine[N-] | 930-55-2 | N | 3.0 | — | 0.37 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrotoluene[2-] | 88-72-2 | N | 0.0882 | — | 3.14 | — | — | 0.0882 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrotoluene[3-] | 99-08-1 | N | 0.086 | — | 1.74 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrotoluene[4-] | 99-99-0 | N | 0.161 | — | 42.7 | — | — | 0.161 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Oxybis(1-chloropropane)[2,2'-] | 108-60-1 | N | 3.0 | — | 9.81 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorobenzene | 608-93-5 | N | 3.0 | — | 3.07 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorophenol | 87-86-5 | N | 3.0 | — | 1 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.234 | — | 13.8 | 0.414 | — | 0.05 | µg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | PETN | 78-11-5 | N | 0.108 | — | 190 | — | — | 0.108 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenanthrene | 85-01-8 | N | 0.3 | — | 170 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenol | 108-95-2 | N | 3.0 | — | 5 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.033 | 0.011 | — | 0.00994*[r] | 0.0515 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0 | 0.00881 | — | 0.0171*[r] | 0.0602 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.12 | — | — | 2.39 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 6.89 | 17.2 | — | 35.6*[r] | 42.5 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propionitrile | 107-12-0 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propylbenzene[1-] | 103-65-1 | N | 0.3 | — | 660 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyrene | 129-00-0 | N | 0.3 | — | 117 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyridine | 110-86-1 | N | 3.0 | — | 20 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | RDX | 121-82-4 | N | 0.086 | — | 9.66 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Selenium | Se | N | 2.0 | — | 50 | 1.5*[r] | — | 2.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 64.2 | — | — | 81.9 | — | 0.053 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Silver | Ag | N | 0.3 | — | 50 | 0.2*[r] | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.5 | — | — | 16 | — | 0.1 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.591 | 0.798 | — | 1.93*[r] | 2.34 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 130.0 | — | — | — | — | 1.0 | uS/cm | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 55.4 | — | 11800 | 157 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.296 | 0.141 | 8.0 | 0.355*[r] | 0.448 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Styrene | 100-42-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.72 | — | 600 | 4.59 | — | 0.133 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | TATB | 3058-38-6 | N | 0.323 | — | — | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorobenzene[1,2,4,5] | 95-94-3 | N | 3.0 | — | 1.66 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,1,2-] | 630-20-6 | N | 0.3 | — | 5.74 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,2,2-] | 79-34-5 | N | 0.3 | — | 10 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethene | 127-18-4 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorophenol[2,3,4,6-] | 58-90-2 | N | 3.0 | — | 240 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Tetryl | 479-45-8 | N | 0.086 | — | 39.4 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Thallium | Tl | N | 0.6 | — | 2 | 0.45*[r] | — | 0.6 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Tin | Sn | N | 2.5 | — | 12000 | 13*[r] | — | 2.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Toluene | 108-88-3 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 129.0 | — | 1000 | 161 | — | 3.4 | mg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | EPA:351.2 | Total Kjeldahl Nitrogen | TKN | N | 0.033 | — | — | — | — | 0.033 | mg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | N | 0.33 | — | — | 1.08 | — | 0.33 | mg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:365.4 | Total Phosphate as Phosphorus | PO4-P | N | 0.0359 | — | 0.0822*[r] | — | — | 0.02 | mg/L | Y | J | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 76-13-1 | N | 2.0 | — | 55000 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,3-] | 87-61-6 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 3.0 | — | 70 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,1-] | 71-55-6 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,2-] | 79-00-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethene | 79-01-6 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorofluoromethane | 75-69-4 | N | 0.3 | — | 1140 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,5-] | 95-95-4 | N | 3.0 | — | 1170 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,6-] | 88-06-2 | N | 3.0 | — | 11.9 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloropropane[1,2,3-] | 96-18-4 | N | 0.3 | — | 0.00835 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,2,4-] | 95-63-6 | N | 0.3 | — | 56 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,3,5-] | 108-67-8 | N | 0.3 | — | 60 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Trinitrobenzene[1,3,5-] | 99-35-4 | N | 0.086 | — | 590 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Trinitrotoluene[2,4,6-] | 118-96-7 | N | 0.086 | — | 9.8 | — | — | 0.086 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Tris (o-cresyl) phosphate | 78-30-8 | N | 0.323 | — | — | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | Generic:Low_Level_Tritium | Tritium | H-3 | Y | 3.181 | 1.051 | 20000.0 | 2.06*[r] | 2.987 | — | pCi/L | Y | — | NQ | N3B-2019-872 | CAAN-19-166407 | ARSL |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.436 | — | 30 | 1.19 | — | 0.067 | µg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.31 | 0.0363 | 27.2 | 0.7150 | 0.105 | — | pCi/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0411 | 0.017 | 28.8 | 0.0423*[r] | 0.0973 | — | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.151 | 0.0258 | 30.0 | 0.3360 | 0.122 | — | pCi/L | Y | — | J | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.08 | — | 63.1 | 11.4 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl acetate | 108-05-4 | N | 1.5 | — | 409 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl Chloride | 75-01-4 | N | 0.3 | — | 2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,2-] | 95-47-6 | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,3-]+Xylene[1,4-] | Xylene[m+p] | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 3.3 | — | 10000 | 30.7*[r] | — | 3.3 | µg/L | Y | U | U | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | N | 0.532 | — | — | — | — | 0.532 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | 2,4-Diamino-6-nitrotoluene | 6629-29-4 | N | 0.549 | — | — | — | — | 0.549 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | N | 0.532 | — | — | — | — | 0.532 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | 2,6-Diamino-4-nitrotoluene | 59229-75-3 | N | 0.549 | — | — | — | — | 0.549 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | 3,5-Dinitroaniline | 618-87-1 | N | 0.319 | — | — | — | — | 0.319 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | 3,5-Dinitroaniline | 618-87-1 | N | 0.33 | — | — | — | — | 0.33 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Acenaphthene | 83-32-9 | N | 0.323 | — | 535 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthene | 83-32-9 | N | 0.3 | — | 535 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Acenaphthylene | 208-96-8 | N | 0.323 | — | — | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Acenaphthylene | 208-96-8 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Acetone | 67-64-1 | N | 1.5 | — | 14100 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetone | 67-64-1 | N | 1.5 | — | 14100 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Acetonitrile | 75-05-8 | N | 8.0 | — | 130 | — | — | 8.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acetonitrile | 75-05-8 | N | 8.0 | — | 130 | — | — | 8.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.14 | — | — | — | — | 0.01 | SU | Y | H | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.18 | — | — | — | — | 0.01 | SU | Y | H | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Acrolein | 107-02-8 | N | 1.5 | — | 0.0415 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrolein | 107-02-8 | N | 1.5 | — | 0.0415 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Acrylonitrile | 107-13-1 | N | 1.5 | — | 0.523 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Acrylonitrile | 107-13-1 | N | 1.5 | — | 0.523 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3 | ALK-CO3 | N | 1.45 | — | — | — | — | 1.45 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3 | ALK-CO3 | N | 1.45 | — | — | — | — | 1.45 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58.0 | — | — | 72.9 | — | 1.45 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58.2 | — | — | 72.9 | — | 1.45 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Aluminum | Al | N | 68.0 | — | 5000 | 68*[r] | — | 68.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Aluminum | Al | N | 68.0 | — | 5000 | 68*[r] | — | 68.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0312 | 0.0125 | — | 0.0167*[r] | 0.0439 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00741 | 0.00741 | — | 0.0167*[r] | 0.0452 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Amino-2,6-dinitrotoluene[4-] | 19406-51-0 | N | 0.0851 | — | 39 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Amino-2,6-dinitrotoluene[4-] | 19406-51-0 | N | 0.0879 | — | 39 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Amino-4,6-dinitrotoluene[2-] | 35572-78-2 | N | 0.0851 | — | 39 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Amino-4,6-dinitrotoluene[2-] | 35572-78-2 | N | 0.0879 | — | 39 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0766 | — | — | 0.1*[f] | — | 0.017 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0413 | — | — | 0.1*[f] | — | 0.017 | mg/L | Y | J | J | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Aniline | 62-53-3 | N | 4.52 | — | 130 | — | — | 4.52 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Aniline | 62-53-3 | N | 4.2 | — | 130 | — | — | 4.2 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Anthracene | 120-12-7 | N | 0.323 | — | 1720 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Anthracene | 120-12-7 | N | 0.3 | — | 1720 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Antimony | Sb | N | 1.0 | — | 6 | 1*[f] | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Antimony | Sb | N | 1.0 | — | 6 | 1*[f] | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | Y | 2.15 | — | 10 | 2.7*[f] | — | 2.0 | µg/L | Y | J | J | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Arsenic | As | Y | 2.45 | — | 10 | 2.7*[f] | — | 2.0 | µg/L | Y | J | J | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Atrazine | 1912-24-9 | N | 3.23 | — | 3 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Atrazine | 1912-24-9 | N | 3.0 | — | 3 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Azobenzene | 103-33-3 | N | 3.23 | — | 1.2 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Azobenzene | 103-33-3 | N | 3.0 | — | 1.2 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 14.1 | — | 2000 | 38.1 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Barium | Ba | Y | 13.9 | — | 2000 | 38.1 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Benzene | 71-43-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Benzene | 71-43-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzidine | 92-87-5 | N | 4.19 | — | 0.00109 | — | — | 4.19 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzidine | 92-87-5 | N | 3.9 | — | 0.00109 | — | — | 3.9 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzo(a)anthracene | 56-55-3 | N | 0.323 | — | 0.12 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)anthracene | 56-55-3 | N | 0.3 | — | 0.12 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzo(a)pyrene | 50-32-8 | N | 0.323 | — | 0.2 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(a)pyrene | 50-32-8 | N | 0.3 | — | 0.2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzo(b)fluoranthene | 205-99-2 | N | 0.323 | — | 0.343 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(b)fluoranthene | 205-99-2 | N | 0.3 | — | 0.343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzo(g,h,i)perylene | 191-24-2 | N | 0.323 | — | — | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(g,h,i)perylene | 191-24-2 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzo(k)fluoranthene | 207-08-9 | N | 0.323 | — | 3.43 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzo(k)fluoranthene | 207-08-9 | N | 0.3 | — | 3.43 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzoic Acid | 65-85-0 | N | 6.45 | — | 75000 | — | — | 6.45 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzoic Acid | 65-85-0 | N | 6.0 | — | 75000 | — | — | 6.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Benzyl Alcohol | 100-51-6 | N | 3.23 | — | 2000 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Benzyl Alcohol | 100-51-6 | N | 3.0 | — | 2000 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Beryllium | Be | N | 1.0 | — | 4 | 1*[f] | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Beryllium | Be | N | 1.0 | — | 4 | 1*[f] | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Bis(2-chloroethoxy)methane | 111-91-1 | N | 3.23 | — | 59 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethoxy)methane | 111-91-1 | N | 3.0 | — | 59 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Bis(2-chloroethyl)ether | 111-44-4 | N | 3.23 | — | 0.137 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-chloroethyl)ether | 111-44-4 | N | 3.0 | — | 0.137 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 0.323 | — | 6 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | Y | 0.55 | — | 6 | — | — | 0.3 | µg/L | Y | J | J | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Boron | B | N | 15.0 | — | 750 | 18.7*[f] | — | 15.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Boron | B | N | 15.0 | — | 750 | 18.7*[f] | — | 15.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Bromide | Br(-1) | N | 0.067 | — | — | 0.067*[f] | — | 0.067 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Bromide | Br(-1) | N | 0.067 | — | — | 0.067*[f] | — | 0.067 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Bromobenzene | 108-86-1 | N | 0.3 | — | 62 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromobenzene | 108-86-1 | N | 0.3 | — | 62 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Bromochloromethane | 74-97-5 | N | 0.3 | — | 83 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromochloromethane | 74-97-5 | N | 0.3 | — | 83 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Bromodichloromethane | 75-27-4 | N | 0.3 | — | 1.34 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromodichloromethane | 75-27-4 | N | 0.3 | — | 1.34 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Bromoform | 75-25-2 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromoform | 75-25-2 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Bromomethane | 74-83-9 | N | 0.3 | — | 7.54 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Bromomethane | 74-83-9 | N | 0.3 | — | 7.54 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Bromophenyl-phenylether[4-] | 101-55-3 | N | 3.23 | — | — | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bromophenyl-phenylether[4-] | 101-55-3 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Butanol[1-] | 71-36-3 | N | 15.0 | — | 2000 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanol[1-] | 71-36-3 | N | 15.0 | — | 2000 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Butanone[2-] | 78-93-3 | N | 1.5 | — | 5560 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butanone[2-] | 78-93-3 | N | 1.5 | — | 5560 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Butylbenzene[n-] | 104-51-8 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[n-] | 104-51-8 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Butylbenzene[sec-] | 135-98-8 | N | 0.3 | — | 2000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[sec-] | 135-98-8 | N | 0.3 | — | 2000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Butylbenzene[tert-] | 98-06-6 | N | 0.3 | — | 690 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Butylbenzene[tert-] | 98-06-6 | N | 0.3 | — | 690 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Butylbenzylphthalate | 85-68-7 | N | 0.323 | — | 160 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Butylbenzylphthalate | 85-68-7 | N | 0.3 | — | 160 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Cadmium | Cd | N | 0.3 | — | 5 | 0.11*[r] | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Cadmium | Cd | N | 0.3 | — | 5 | 0.11*[r] | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.3 | — | — | 17.03 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.2 | — | — | 17.03 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Carbon Disulfide | 75-15-0 | N | 1.5 | — | 810 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Disulfide | 75-15-0 | N | 1.5 | — | 810 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Carbon Tetrachloride | 56-23-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Carbon Tetrachloride | 56-23-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.0294 | 1.2 | — | 2.93*[r] | 3.97 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.389 | 1.13 | — | 2.93*[r] | 3.88 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.55 | — | 250000 | 2.7 | — | 0.067 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.54 | — | 250000 | 2.7 | — | 0.067 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chloro-1,3-butadiene[2-] | 126-99-8 | N | 0.3 | — | 0.187 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1,3-butadiene[2-] | 126-99-8 | N | 0.3 | — | 0.187 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chloro-1-propene[3-] | 107-05-1 | N | 1.5 | — | 7.3 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloro-1-propene[3-] | 107-05-1 | N | 1.5 | — | 7.3 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Chloro-3-methylphenol[4-] | 59-50-7 | N | 3.23 | — | 1400 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloro-3-methylphenol[4-] | 59-50-7 | N | 3.0 | — | 1400 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Chloroaniline[4-] | 106-47-8 | N | 3.55 | — | 3.7 | — | — | 3.55 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloroaniline[4-] | 106-47-8 | N | 3.3 | — | 3.7 | — | — | 3.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chlorobenzene | 108-90-7 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorobenzene | 108-90-7 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chlorodibromomethane | 124-48-1 | N | 0.3 | — | 1.68 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorodibromomethane | 124-48-1 | N | 0.3 | — | 1.68 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chloroethane | 75-00-3 | N | 0.3 | — | 20900 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroethane | 75-00-3 | N | 0.3 | — | 20900 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chloroform | 67-66-3 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloroform | 67-66-3 | N | 0.3 | — | 80 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chloromethane | 74-87-3 | N | 0.3 | — | 20.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chloromethane | 74-87-3 | N | 0.3 | — | 20.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Chloronaphthalene[2-] | 91-58-7 | N | 0.441 | — | 733 | — | — | 0.441 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chloronaphthalene[2-] | 91-58-7 | N | 0.41 | — | 733 | — | — | 0.41 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Chlorophenol[2-] | 95-57-8 | N | 3.23 | — | 91 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenol[2-] | 95-57-8 | N | 3.0 | — | 91 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Chlorophenyl-phenyl[4-] Ether | 7005-72-3 | N | 3.23 | — | — | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chlorophenyl-phenyl[4-] Ether | 7005-72-3 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chlorotoluene[2-] | 95-49-8 | N | 0.3 | — | 233 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[2-] | 95-49-8 | N | 0.3 | — | 233 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Chlorotoluene[4-] | 106-43-4 | N | 0.3 | — | 250 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Chlorotoluene[4-] | 106-43-4 | N | 0.3 | — | 250 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Chromium | Cr | N | 3.0 | — | 50 | 7.48 | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Chromium | Cr | N | 3.0 | — | 50 | 7.48 | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Chrysene | 218-01-9 | N | 0.323 | — | 34.3 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Chrysene | 218-01-9 | N | 0.3 | — | 34.3 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Cobalt | Co | N | 1.0 | — | 50 | 1*[r] | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Cobalt | Co | N | 1.0 | — | 50 | 1*[r] | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -1.27 | 1.04 | — | 2.65*[r] | 3.53 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 1.19 | 0.994 | — | 2.65*[r] | 4.14 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Copper | Cu | N | 3.0 | — | 1000 | 3*[r] | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Copper | Cu | N | 3.0 | — | 1000 | 3*[r] | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | INORGANIC | EPA:335.4 | Cyanide (Total) | CN(TOTAL) | N | 0.00167 | — | 200 | 0.0017*[r] | — | 0.00167 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | INORGANIC | EPA:335.4 | Cyanide (Total) | CN(TOTAL) | N | 0.00167 | — | 200 | 0.0017*[r] | — | 0.00167 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dibenz(a,h)anthracene | 53-70-3 | N | 0.323 | — | 0.0343 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenz(a,h)anthracene | 53-70-3 | N | 0.3 | — | 0.0343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dibenzofuran | 132-64-9 | N | 3.23 | — | 7.9 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dibenzofuran | 132-64-9 | N | 3.0 | — | 7.9 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dibromo-3-Chloropropane[1,2-] | 96-12-8 | N | 0.5 | — | 0.2 | — | — | 0.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromo-3-Chloropropane[1,2-] | 96-12-8 | N | 0.5 | — | 0.2 | — | — | 0.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dibromoethane[1,2-] | 106-93-4 | N | 0.3 | — | 0.05 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromoethane[1,2-] | 106-93-4 | N | 0.3 | — | 0.05 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dibromomethane | 74-95-3 | N | 0.3 | — | 0.0747 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dibromomethane | 74-95-3 | N | 0.3 | — | 0.0747 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichlorobenzene[1,2-] | 95-50-1 | N | 0.3 | — | 600 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dichlorobenzene[1,2-] | 95-50-1 | N | 3.23 | — | 600 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,2-] | 95-50-1 | N | 0.3 | — | 600 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,2-] | 95-50-1 | N | 3.0 | — | 600 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichlorobenzene[1,3-] | 541-73-1 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dichlorobenzene[1,3-] | 541-73-1 | N | 3.23 | — | — | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,3-] | 541-73-1 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,3-] | 541-73-1 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichlorobenzene[1,4-] | 106-46-7 | N | 0.3 | — | 75 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dichlorobenzene[1,4-] | 106-46-7 | N | 3.23 | — | 75 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorobenzene[1,4-] | 106-46-7 | N | 0.3 | — | 75 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzene[1,4-] | 106-46-7 | N | 3.0 | — | 75 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dichlorobenzidine[3,3'-] | 91-94-1 | N | 3.23 | — | 1.25 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorobenzidine[3,3'-] | 91-94-1 | N | 3.0 | — | 1.25 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichlorodifluoromethane | 75-71-8 | N | 0.3 | — | 197 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichlorodifluoromethane | 75-71-8 | N | 0.3 | — | 197 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloroethane[1,1-] | 75-34-3 | N | 0.3 | — | 25 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,1-] | 75-34-3 | N | 0.3 | — | 25 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloroethane[1,2-] | 107-06-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethane[1,2-] | 107-06-2 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloroethene[1,1-] | 75-35-4 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[1,1-] | 75-35-4 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloroethene[cis-1,2-] | 156-59-2 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[cis-1,2-] | 156-59-2 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloroethene[trans-1,2-] | 156-60-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloroethene[trans-1,2-] | 156-60-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dichlorophenol[2,4-] | 120-83-2 | N | 3.23 | — | 45.3 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dichlorophenol[2,4-] | 120-83-2 | N | 3.0 | — | 45.3 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloropropane[1,2-] | 78-87-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,2-] | 78-87-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloropropane[1,3-] | 142-28-9 | N | 0.3 | — | 370 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[1,3-] | 142-28-9 | N | 0.3 | — | 370 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloropropane[2,2-] | 594-20-7 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropane[2,2-] | 594-20-7 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloropropene[1,1-] | 563-58-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[1,1-] | 563-58-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloropropene[cis-1,3-] | 10061-01-5 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[cis-1,3-] | 10061-01-5 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Dichloropropene[trans-1,3-] | 10061-02-6 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Dichloropropene[trans-1,3-] | 10061-02-6 | N | 0.3 | — | 4.71 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Diethyl Ether | 60-29-7 | N | 0.3 | — | 3930 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Diethyl Ether | 60-29-7 | N | 0.3 | — | 3930 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Diethylphthalate | 84-66-2 | N | 0.323 | — | 14800 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diethylphthalate | 84-66-2 | N | 0.3 | — | 14800 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dimethyl Phthalate | 131-11-3 | N | 0.323 | — | 612 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethyl Phthalate | 131-11-3 | N | 0.3 | — | 612 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dimethylphenol[2,4-] | 105-67-9 | N | 3.23 | — | 354 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dimethylphenol[2,4-] | 105-67-9 | N | 3.0 | — | 354 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Di-n-butylphthalate | 84-74-2 | N | 0.323 | — | 885 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-butylphthalate | 84-74-2 | N | 0.3 | — | 885 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dinitro-2-methylphenol[4,6-] | 534-52-1 | N | 3.23 | — | 1.52 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitro-2-methylphenol[4,6-] | 534-52-1 | N | 3.0 | — | 1.52 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Dinitrobenzene[1,3-] | 99-65-0 | N | 0.0851 | — | 2 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Dinitrobenzene[1,3-] | 99-65-0 | N | 0.0879 | — | 2 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dinitrophenol[2,4-] | 51-28-5 | N | 5.38 | — | 38.7 | — | — | 5.38 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrophenol[2,4-] | 51-28-5 | N | 5.0 | — | 38.7 | — | — | 5.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dinitrotoluene[2,4-] | 121-14-2 | N | 3.23 | — | 2.37 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Dinitrotoluene[2,4-] | 121-14-2 | N | 0.0851 | — | 2.37 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,4-] | 121-14-2 | N | 3.0 | — | 2.37 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Dinitrotoluene[2,4-] | 121-14-2 | N | 0.0879 | — | 2.37 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dinitrotoluene[2,6-] | 606-20-2 | N | 3.23 | — | 0.485 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Dinitrotoluene[2,6-] | 606-20-2 | N | 0.0851 | — | 0.485 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinitrotoluene[2,6-] | 606-20-2 | N | 3.0 | — | 0.485 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Dinitrotoluene[2,6-] | 606-20-2 | N | 0.0879 | — | 0.485 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Di-n-octylphthalate | 117-84-0 | N | 0.323 | — | 200 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Di-n-octylphthalate | 117-84-0 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dinoseb | 88-85-7 | N | 3.23 | — | 7 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dinoseb | 88-85-7 | N | 3.0 | — | 7 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Dioxane[1,4-] | 123-91-1 | N | 3.23 | — | 4.59 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Dioxane[1,4-] | 123-91-1 | N | 3.0 | — | 4.59 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Diphenylamine | 122-39-4 | N | 3.23 | — | 122 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Diphenylamine | 122-39-4 | N | 3.0 | — | 122 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Ethyl Methacrylate | 97-63-2 | N | 1.5 | — | 455 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethyl Methacrylate | 97-63-2 | N | 1.5 | — | 455 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Ethylbenzene | 100-41-4 | N | 0.3 | — | 700 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Ethylbenzene | 100-41-4 | N | 0.3 | — | 700 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Fluoranthene | 206-44-0 | N | 0.323 | — | 802 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluoranthene | 206-44-0 | N | 0.3 | — | 802 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Fluorene | 86-73-7 | N | 0.323 | — | 288 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Fluorene | 86-73-7 | N | 0.3 | — | 288 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.212 | — | 1600 | 0.377 | — | 0.033 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.293 | — | 1600 | 0.377 | — | 0.033 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.256 | 0.75 | 15.0 | 2.012*[r] | 2.88 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.03 | 0.841 | 15.0 | 2.012*[r] | 2.86 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:900 | Gross beta | GROSSB | N | 1.1 | 0.901 | — | 3.81*[r] | 3.0 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.575 | 0.867 | — | 3.81*[r] | 2.96 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 38.5 | — | — | 67.1 | — | 0.453 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 38.2 | — | — | 67.1 | — | 0.453 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Hexachlorobenzene | 118-74-1 | N | 3.23 | — | 1 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobenzene | 118-74-1 | N | 3.0 | — | 1 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Hexachlorobutadiene | 87-68-3 | N | 0.3 | — | 1.39 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Hexachlorobutadiene | 87-68-3 | N | 3.23 | — | 1.39 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexachlorobutadiene | 87-68-3 | N | 0.3 | — | 1.39 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorobutadiene | 87-68-3 | N | 3.0 | — | 1.39 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Hexachlorocyclopentadiene | 77-47-4 | N | 3.23 | — | 50 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachlorocyclopentadiene | 77-47-4 | N | 3.0 | — | 50 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Hexachloroethane | 67-72-1 | N | 3.23 | — | 3.28 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Hexachloroethane | 67-72-1 | N | 3.0 | — | 3.28 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Hexanone[2-] | 591-78-6 | N | 1.5 | — | 38 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Hexanone[2-] | 591-78-6 | N | 1.5 | — | 38 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | HMX | 2691-41-0 | N | 0.0851 | — | 1000 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | HMX | 2691-41-0 | N | 0.0879 | — | 1000 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Indeno(1,2,3-cd)pyrene | 193-39-5 | N | 0.323 | — | 0.343 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Indeno(1,2,3-cd)pyrene | 193-39-5 | N | 0.3 | — | 0.343 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Iodomethane | 74-88-4 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Iodomethane | 74-88-4 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Iron | Fe | N | 30.0 | — | 1000 | 53.8*[r] | — | 30.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Iron | Fe | N | 30.0 | — | 1000 | 53.8*[r] | — | 30.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Isobutyl alcohol | 78-83-1 | N | 15.0 | — | 5910 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isobutyl alcohol | 78-83-1 | N | 15.0 | — | 5910 | — | — | 15.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Isophorone | 78-59-1 | N | 3.76 | — | 781 | — | — | 3.76 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Isophorone | 78-59-1 | N | 3.5 | — | 781 | — | — | 3.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Isopropylbenzene | 98-82-8 | N | 0.3 | — | 447 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropylbenzene | 98-82-8 | N | 0.3 | — | 447 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Isopropyltoluene[4-] | 99-87-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Isopropyltoluene[4-] | 99-87-6 | N | 0.3 | — | — | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Lead | Pb | N | 0.5 | — | 15 | 0.5*[r] | — | 0.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Lead | Pb | N | 0.5 | — | 15 | 0.5*[r] | — | 0.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.13 | — | — | 4.18 | — | 0.11 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.08 | — | — | 4.18 | — | 0.11 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | N | 2.0 | — | 200 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Manganese | Mn | N | 2.0 | — | 200 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | 0.067*[r] | — | 0.067 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | 0.067*[r] | — | 0.067 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | — | — | 0.067 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | INORGANIC | EPA:245.2 | Mercury | Hg | N | 0.067 | — | 2 | — | — | 0.067 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Methacrylonitrile | 126-98-7 | N | 1.5 | — | 1.91 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methacrylonitrile | 126-98-7 | N | 1.5 | — | 1.91 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Methyl Methacrylate | 80-62-6 | N | 1.5 | — | 1390 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl Methacrylate | 80-62-6 | N | 1.5 | — | 1390 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Methyl tert-Butyl Ether | 1634-04-4 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl tert-Butyl Ether | 1634-04-4 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Methyl-2-pentanone[4-] | 108-10-1 | N | 1.5 | — | 1240 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methyl-2-pentanone[4-] | 108-10-1 | N | 1.5 | — | 1240 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Methylene Chloride | 75-09-2 | N | 1.0 | — | 5 | — | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Methylene Chloride | 75-09-2 | N | 1.0 | — | 5 | — | — | 1.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Methylnaphthalene[1-] | 90-12-0 | N | 0.323 | — | 11.4 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[1-] | 90-12-0 | N | 0.3 | — | 11.4 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Methylnaphthalene[2-] | 91-57-6 | N | 0.323 | — | 35.1 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylnaphthalene[2-] | 91-57-6 | N | 0.3 | — | 35.1 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Methylphenol[2-] | 95-48-7 | N | 3.23 | — | 930 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[2-] | 95-48-7 | N | 3.0 | — | 930 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Methylphenol[3-,4-] | 65794-96-9 | N | 3.98 | — | 930 | — | — | 3.98 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Methylphenol[3-,4-] | 65794-96-9 | N | 3.7 | — | 930 | — | — | 3.7 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.22 | — | 1000 | 2.5 | — | 0.2 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.16 | — | 1000 | 2.5 | — | 0.2 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Naphthalene | 91-20-3 | N | 0.33 | — | 1.65 | — | — | 0.3 | µg/L | Y | J | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Naphthalene | 91-20-3 | N | 0.323 | — | 1.65 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Naphthalene | 91-20-3 | N | 0.3 | — | 1.65 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Naphthalene | 91-20-3 | N | 0.3 | — | 1.65 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -0.267 | 2.33 | — | — | 7.22 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 1.77 | 1.86 | — | — | 7.01 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | N | 0.6 | — | 200 | 2.9 | — | 0.6 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Nickel | Ni | N | 0.6 | — | 200 | 2.9 | — | 0.6 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.333 | — | 10 | 0.769 | — | 0.017 | mg/L | Y | — | J+ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.326 | — | 10 | 0.769 | — | 0.017 | mg/L | Y | — | J+ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitroaniline[2-] | 88-74-4 | N | 3.23 | — | 190 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[2-] | 88-74-4 | N | 3.0 | — | 190 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitroaniline[3-] | 99-09-2 | N | 3.23 | — | — | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[3-] | 99-09-2 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitroaniline[4-] | 100-01-6 | N | 3.23 | — | 38 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroaniline[4-] | 100-01-6 | N | 3.0 | — | 38 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitrobenzene | 98-95-3 | N | 3.23 | — | 1.4 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Nitrobenzene | 98-95-3 | N | 0.0851 | — | 1.4 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrobenzene | 98-95-3 | N | 3.0 | — | 1.4 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrobenzene | 98-95-3 | N | 0.0879 | — | 1.4 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitrophenol[2-] | 88-75-5 | N | 3.23 | — | — | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[2-] | 88-75-5 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitrophenol[4-] | 100-02-7 | N | 3.23 | — | — | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrophenol[4-] | 100-02-7 | N | 3.0 | — | — | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitrosodiethylamine[N-] | 55-18-5 | N | 3.23 | — | 0.00167 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodiethylamine[N-] | 55-18-5 | N | 3.0 | — | 0.00167 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitrosodimethylamine[N-] | 62-75-9 | N | 3.23 | — | 0.00491 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosodimethylamine[N-] | 62-75-9 | N | 3.0 | — | 0.00491 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitroso-di-n-butylamine[N-] | 924-16-3 | N | 3.23 | — | 0.0273 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-butylamine[N-] | 924-16-3 | N | 3.0 | — | 0.0273 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitroso-di-n-propylamine[N-] | 621-64-7 | N | 3.23 | — | 0.11 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitroso-di-n-propylamine[N-] | 621-64-7 | N | 3.0 | — | 0.11 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Nitrosopyrrolidine[N-] | 930-55-2 | N | 3.23 | — | 0.37 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Nitrosopyrrolidine[N-] | 930-55-2 | N | 3.0 | — | 0.37 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Nitrotoluene[2-] | 88-72-2 | N | 0.0872 | — | 3.14 | — | — | 0.0872 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrotoluene[2-] | 88-72-2 | N | 0.0901 | — | 3.14 | — | — | 0.0901 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Nitrotoluene[3-] | 99-08-1 | N | 0.0851 | — | 1.74 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrotoluene[3-] | 99-08-1 | N | 0.0879 | — | 1.74 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Nitrotoluene[4-] | 99-99-0 | N | 0.16 | — | 42.7 | — | — | 0.16 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Nitrotoluene[4-] | 99-99-0 | N | 0.165 | — | 42.7 | — | — | 0.165 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Oxybis(1-chloropropane)[2,2'-] | 108-60-1 | N | 3.23 | — | 9.81 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Oxybis(1-chloropropane)[2,2'-] | 108-60-1 | N | 3.0 | — | 9.81 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Pentachlorobenzene | 608-93-5 | N | 3.23 | — | 3.07 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorobenzene | 608-93-5 | N | 3.0 | — | 3.07 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Pentachlorophenol | 87-86-5 | N | 3.23 | — | 1 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pentachlorophenol | 87-86-5 | N | 3.0 | — | 1 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.237 | — | 13.8 | 0.414 | — | 0.05 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.205 | — | 13.8 | 0.414 | — | 0.05 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | PETN | 78-11-5 | N | 0.106 | — | 190 | — | — | 0.106 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | PETN | 78-11-5 | N | 0.11 | — | 190 | — | — | 0.11 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Phenanthrene | 85-01-8 | N | 0.323 | — | 170 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenanthrene | 85-01-8 | N | 0.3 | — | 170 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Phenol | 108-95-2 | N | 3.23 | — | 5 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Phenol | 108-95-2 | N | 3.0 | — | 5 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00228 | 0.0051 | — | 0.00994*[f] | 0.0499 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00474 | 0.00821 | — | 0.00994*[f] | 0.0519 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0433 | 0.0114 | — | 0.0171*[f] | 0.0582 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.019 | 0.0134 | — | 0.0171*[f] | 0.0606 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.2 | — | — | 2.39 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.19 | — | — | 2.39 | — | 0.05 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 16.3 | 21.0 | — | 35.6*[f] | 50.8 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -14.1 | 13.1 | — | 35.6*[f] | 48.7 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Propionitrile | 107-12-0 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propionitrile | 107-12-0 | N | 1.5 | — | — | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Propylbenzene[1-] | 103-65-1 | N | 0.3 | — | 660 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Propylbenzene[1-] | 103-65-1 | N | 0.3 | — | 660 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Pyrene | 129-00-0 | N | 0.323 | — | 117 | — | — | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyrene | 129-00-0 | N | 0.3 | — | 117 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Pyridine | 110-86-1 | N | 3.23 | — | 20 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Pyridine | 110-86-1 | N | 3.0 | — | 20 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | RDX | 121-82-4 | N | 0.0851 | — | 9.66 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | RDX | 121-82-4 | N | 0.0879 | — | 9.66 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Selenium | Se | N | 2.0 | — | 50 | 1.5*[f] | — | 2.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Selenium | Se | N | 2.0 | — | 50 | 1.5*[f] | — | 2.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 71.4 | — | — | 81.9 | — | 0.053 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 71.2 | — | — | 81.9 | — | 0.053 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Silver | Ag | N | 0.3 | — | 50 | 0.2*[f] | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Silver | Ag | N | 0.3 | — | 50 | 0.2*[f] | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11.0 | — | — | 16 | — | 0.1 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11.0 | — | — | 16 | — | 0.1 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -2.26 | 0.985 | — | 1.93*[r] | 2.88 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.596 | 0.9 | — | 1.93*[r] | 3.23 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 119.0 | — | — | — | — | 1.0 | uS/cm | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 120.0 | — | — | — | — | 1.0 | uS/cm | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 48.6 | — | 11800 | 157 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 48.3 | — | 11800 | 157 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.37 | 0.125 | 8.0 | 0.355*[r] | 0.402 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.301 | 0.119 | 8.0 | 0.355*[r] | 0.37 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Styrene | 100-42-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Styrene | 100-42-5 | N | 0.3 | — | 100 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.49 | — | 600 | 4.59 | — | 0.133 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.52 | — | 600 | 4.59 | — | 0.133 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | TATB | 3058-38-6 | N | 0.319 | — | — | — | — | 0.319 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | TATB | 3058-38-6 | N | 0.33 | — | — | — | — | 0.33 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2.0 | — | — | — | — | — | deg C | Y | — | NQ | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Tetrachlorobenzene[1,2,4,5] | 95-94-3 | N | 3.23 | — | 1.66 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorobenzene[1,2,4,5] | 95-94-3 | N | 3.0 | — | 1.66 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Tetrachloroethane[1,1,1,2-] | 630-20-6 | N | 0.3 | — | 5.74 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,1,2-] | 630-20-6 | N | 0.3 | — | 5.74 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Tetrachloroethane[1,1,2,2-] | 79-34-5 | N | 0.3 | — | 10 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethane[1,1,2,2-] | 79-34-5 | N | 0.3 | — | 10 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Tetrachloroethene | 127-18-4 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Tetrachloroethene | 127-18-4 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Tetrachlorophenol[2,3,4,6-] | 58-90-2 | N | 3.23 | — | 240 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Tetrachlorophenol[2,3,4,6-] | 58-90-2 | N | 3.0 | — | 240 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Tetryl | 479-45-8 | N | 0.0851 | — | 39.4 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Tetryl | 479-45-8 | N | 0.0879 | — | 39.4 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Thallium | Tl | N | 0.6 | — | 2 | 0.45*[r] | — | 0.6 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Thallium | Tl | N | 0.6 | — | 2 | 0.45*[r] | — | 0.6 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Tin | Sn | N | 2.5 | — | 12000 | 13*[r] | — | 2.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Tin | Sn | N | 2.5 | — | 12000 | 13*[r] | — | 2.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Toluene | 108-88-3 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Toluene | 108-88-3 | N | 0.3 | — | 1000 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 129.0 | — | 1000 | 161 | — | 3.4 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 211.0 | — | 1000 | 161 | — | 3.4 | mg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | GENERAL CHEMISTRY | EPA:351.2 | Total Kjeldahl Nitrogen | TKN | N | 0.033 | — | — | — | — | 0.033 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | EPA:351.2 | Total Kjeldahl Nitrogen | TKN | N | 0.033 | — | — | — | — | 0.033 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | N | 0.33 | — | — | 1.08 | — | 0.33 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | N | 0.33 | — | — | 1.08 | — | 0.33 | mg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:365.4 | Total Phosphate as Phosphorus | PO4-P | N | 0.0389 | — | 0.0822*[r] | — | — | 0.02 | mg/L | Y | J | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:365.4 | Total Phosphate as Phosphorus | PO4-P | N | 0.0343 | — | 0.0822*[r] | — | — | 0.02 | mg/L | Y | J | U | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 76-13-1 | N | 2.0 | — | 55000 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloro-1,2,2-trifluoroethane[1,1,2-] | 76-13-1 | N | 2.0 | — | 55000 | — | — | 2.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichlorobenzene[1,2,3-] | 87-61-6 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,3-] | 87-61-6 | N | 0.3 | — | 7 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 3.23 | — | 70 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 0.3 | — | 70 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorobenzene[1,2,4-] | 120-82-1 | N | 3.0 | — | 70 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichloroethane[1,1,1-] | 71-55-6 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,1-] | 71-55-6 | N | 0.3 | — | 200 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichloroethane[1,1,2-] | 79-00-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethane[1,1,2-] | 79-00-5 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichloroethene | 79-01-6 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloroethene | 79-01-6 | N | 0.3 | — | 5 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | Screening Value | Background | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichlorofluoromethane | 75-69-4 | N | 0.3 | — | 1140 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichlorofluoromethane | 75-69-4 | N | 0.3 | — | 1140 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Trichlorophenol[2,4,5-] | 95-95-4 | N | 3.23 | — | 1170 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,5-] | 95-95-4 | N | 3.0 | — | 1170 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Trichlorophenol[2,4,6-] | 88-06-2 | N | 3.23 | — | 11.9 | — | — | 3.23 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Trichlorophenol[2,4,6-] | 88-06-2 | N | 3.0 | — | 11.9 | — | — | 3.0 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trichloropropane[1,2,3-] | 96-18-4 | N | 0.3 | — | 0.00835 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trichloropropane[1,2,3-] | 96-18-4 | N | 0.3 | — | 0.00835 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trimethylbenzene[1,2,4-] | 95-63-6 | N | 0.3 | — | 56 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,2,4-] | 95-63-6 | N | 0.3 | — | 56 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Trimethylbenzene[1,3,5-] | 108-67-8 | N | 0.3 | — | 60 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Trimethylbenzene[1,3,5-] | 108-67-8 | N | 0.3 | — | 60 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Trinitrobenzene[1,3,5-] | 99-35-4 | N | 0.0851 | — | 590 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Trinitrobenzene[1,3,5-] | 99-35-4 | N | 0.0879 | — | 590 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Trinitrotoluene[2,4,6-] | 118-96-7 | N | 0.0851 | — | 9.8 | — | — | 0.0851 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Trinitrotoluene[2,4,6-] | 118-96-7 | N | 0.0879 | — | 9.8 | — | — | 0.0879 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | EXPLOSIVES | SW-846:8330B | Tris (o-cresyl) phosphate | 78-30-8 | N | 0.319 | — | — | — | — | 0.319 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | EXPLOSIVES | SW-846:8330B | Tris (o-cresyl) phosphate | 78-30-8 | N | 0.33 | — | — | — | — | 0.33 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | Generic:Low_Level_Tritium | Tritium | H-3 | N | -0.826 | 0.89 | 20000.0 | 2.06*[r] | 3.031 | — | pCi/L | Y | U | U | N3B-2019-872 | CAAN-19-166417 | ARSL |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | Generic:Low_Level_Tritium | Tritium | H-3 | N | -1.181 | 0.867 | 20000.0 | 2.06*[r] | 2.941 | — | pCi/L | Y | U | U | N3B-2019-872 | CAAN-19-166487 | ARSL |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.509 | — | 30 | 1.19 | — | 0.067 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.504 | — | 30 | 1.19 | — | 0.067 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.335 | 0.0479 | 27.2 | 0.7150 | 0.163 | — | pCi/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.32 | 0.0479 | 27.2 | 0.7150 | 0.164 | — | pCi/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0476 | 0.0214 | 28.8 | 0.0423*[r] | 0.152 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0358 | 0.0203 | 28.8 | 0.0423*[r] | 0.152 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-238 | U-238 | N | 0.167 | 0.0335 | 30.0 | 0.3360 | 0.19 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | N | 0.183 | 0.0364 | 30.0 | 0.3360 | 0.191 | — | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.67 | — | 63.1 | 11.4 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.73 | — | 63.1 | 11.4 | — | 1.0 | µg/L | Y | — | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Vinyl acetate | 108-05-4 | N | 1.5 | — | 409 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl acetate | 108-05-4 | N | 1.5 | — | 409 | — | — | 1.5 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Vinyl Chloride | 75-01-4 | N | 0.3 | — | 2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Vinyl Chloride | 75-01-4 | N | 0.3 | — | 2 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Xylene[1,2-] | 95-47-6 | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,2-] | 95-47-6 | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | SW-846:8260B | Xylene[1,3-]+Xylene[1,4-] | Xylene[m+p] | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | SW-846:8260B | Xylene[1,3-]+Xylene[1,4-] | Xylene[m+p] | N | 0.3 | — | 193 | — | — | 0.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 3.3 | — | 10000 | 30.7*[r] | — | 3.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Zinc | Zn | N | 3.3 | — | 10000 | 30.7*[r] | — | 3.3 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166416 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.95 | | | 0.01 | SU | Y | H | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.92 | | | 0.01 | SU | Y | H | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.06 | | | 0.01 | SU | Y | H | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.97 | | | 0.01 | SU | Y | H | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.98 | | | 0.01 | SU | Y | H | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.9 | | | 0.01 | SU | Y | H | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57.6 | | | 1.45 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58.4 | | | 1.45 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 59 | | | 1.45 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57.9 | | | 0.725 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58.4 | | | 0.725 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 56.5 | | | 0.725 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00215 | 0.0057 | 0.0394 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.000000000869 | 0.00492 | 0.0325 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0112 | 0.00674 | 0.0521 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0152 | 0.0056 | 0.0303 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00679 | 0.00635 | 0.0304 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0058 | 0.00916 | 0.0412 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 27.2 | | | 1 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 27.8 | | | 1 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 26.1 | | | 1 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 26.9 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Barium | Ba | Y | 27.1 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 26.7 | | | 1 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.6 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10 | | | 0.05 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 11.1 | | | 0.05 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.7 | | | 0.05 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.8 | | | 0.05 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.3 | | | 0.05 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -3.01 | 1.4 | 4.07 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.968 | 1.57 | 6.06 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.874 | 1.18 | 3.97 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 3.01 | 1.73 | 6.91 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.0599 | 1.07 | 3.81 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 2.12 | 1.25 | 4.72 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.47 | | | 0.067 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.52 | | | 0.067 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.52 | | | 0.067 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.5 | | | 0.067 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.48 | | | 0.067 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.52 | | | 0.067 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 0.0168 | 0.844 | 3.3 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.366 | 1.58 | 6.17 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.0823 | 1.15 | 4.33 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.0758 | 1.53 | 6.04 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -2.4 | 1.31 | 3.33 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 1.39 | 1.26 | 5.64 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.268 | | | 0.033 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.184 | | | 0.033 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.176 | | | 0.033 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.173 | | | 0.033 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.17 | | | 0.033 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.192 | | | 0.033 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.42 | 0.844 | 2.75 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.0622 | 0.456 | 2.3 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.583 | 0.755 | 2.86 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.63 | 0.936 | 2.97 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.365 | 0.762 | 2.96 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.42 | 0.821 | 2.68 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 2.2 | 0.814 | 2.56 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.326 | 0.682 | 2.45 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 2.14 | 0.887 | 2.83 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | Y | 1.51 | 0.443 | 1.42 | | pCi/L | Y | | NQ | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:900 | Gross beta | GROSSB | N | -1.13 | 0.474 | 1.65 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.161 | 0.753 | 2.64 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 39.4 | | | 0.453 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 39.2 | | | 0.453 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 41.2 | | | 0.453 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 39.4 | | | 0.453 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 39.7 | | | 0.453 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 38.4 | | | 0.453 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.1 | | | 0.11 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.43 | | | 0.11 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.3 | | | 0.11 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.09 | | | 0.11 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.09 | | | 0.11 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.05 | | | 0.11 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.13 | | | 0.2 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.02 | | | 0.2 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.13 | | | 0.2 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.02 | | | 0.165 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 0.978 | | | 0.165 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.03 | | | 0.165 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 1.67 | 1.79 | 6.78 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -3.19 | 3.03 | 10.7 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 0.398 | 2.17 | 7.7 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -5.63 | 3.47 | 11.1 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 2.18 | 2.21 | 7.78 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 1.51 | 3.4 | 12.1 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.284 | | | 0.017 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.286 | | | 0.017 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.272 | | | 0.017 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.278 | | | 0.017 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.294 | | | 0.017 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.285 | | | 0.017 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.205 | | | 0.05 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.214 | | | 0.05 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.211 | | | 0.05 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.208 | | | 0.05 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.203 | | | 0.05 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.197 | | | 0.05 | µg/L | Y | J | J | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.00449 | 0.0071 | 0.0491 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0 | 0.00534 | 0.0462 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00971 | 0.00724 | 0.0586 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.0153 | 0.00881 | 0.0402 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00583 | 0.00921 | 0.0461 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00706 | 0.00623 | 0.0414 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.018 | 0.011 | 0.0574 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.0131 | 0.00815 | 0.0498 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.00971 | 0.0107 | 0.0487 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0127 | 0.0105 | 0.037 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0262 | 0.012 | 0.0424 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0118 | 0.00706 | 0.0465 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.22 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.46 | | | 0.05 | mg/L | Y | | J+ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.56 | | | 0.05 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.33 | | | 0.05 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.32 | | | 0.05 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.21 | | | 0.05 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -25.4 | 14 | 47.7 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -29.9 | 20.4 | 76.9 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -2.07 | 13.7 | 50 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -16.1 | 20.5 | 75.2 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -36 | 13.4 | 42.9 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 32.8 | 21.9 | 56.7 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 67.9 | | | 0.053 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 67.3 | | | 0.053 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 64.8 | | | 0.053 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 68.4 | | | 0.053 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 68.1 | | | 0.053 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 64.5 | | | 0.053 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.1 | | | 0.1 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.1 | | | 0.1 | mg/L | Y | N | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.8 | | | 0.1 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 9.96 | | | 0.1 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.1 | | | 0.1 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 9.76 | | | 0.1 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -1.78 | 1 | 3.04 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.169 | 1.72 | 6.25 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 0.511 | 0.894 | 3.68 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.629 | 1.81 | 6.55 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.796 | 1.1 | 3.85 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -1.03 | 1.47 | 5.27 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 128 | | | 1 | µS/cm | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 120 | | | 1 | µS/cm | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 123 | | | 1 | µS/cm | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 126 | | | 3.63 | µS/cm | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 127 | | | 3.63 | µS/cm | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 111 | | | 3.63 | µS/cm | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 49 | | | 1 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 48.2 | | | 1 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 48.2 | | | 1 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 49.3 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 49.3 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 47.7 | | | 1 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.172 | 0.133 | 0.469 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.00923 | 0.11 | 0.41 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.0445 | 0.0842 | 0.309 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.242 | 0.128 | 0.486 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0983 | 0.105 | 0.434 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.206 | 0.089 | 0.364 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.29 | | | 0.133 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.42 | | | 0.133 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.44 | | | 0.133 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.32 | | | 0.133 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.32 | | | 0.133 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.29 | | | 0.133 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 153 | | | 3.4 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 177 | | | 3.4 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 144 | | | 3.4 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 134 | | | 3.4 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 114 | | | 3.4 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 82.9 | | | 3.4 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 1.497 | 0.729 | 2.259 | | pCi/L | Y | U | U | N3B-2019-925 | CAWA-19-166400 | ARSL |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -0.263 | 0.729 | 2.49 | | pCi/L | Y | U | U | 2018-2173 | CAWA-18-151437 | ARSL |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 0.707 | 0.69 | 2.267 | | pCi/L | Y | U | U | 2017-1286 | CAWA-17-130485 | ARSL |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | m | Tritium | H-3 | N | -0.244 | 0.648 | 2.217 | | pCi/L | Y | U | U | 2016-946 | CAWA-16-110697 | ARSL |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -0.143 | 0.658 | 2.247 | | pCi/L | Y | U | U | 2016-946 | CAWA-16-110752 | ARSL |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 2.087 | 0.746 | 2.157 | | pCi/L | Y | U | U | 2015-789 | CAWA-15-91341 | ARSL |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.584 | | | 0.067 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.514 | | | 0.067 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.553 | | | 0.067 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.623 | | | 0.067 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.612 | | | 0.067 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.511 | | | 0.067 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.337 | 0.0316 | 0.0786 | | pCi/L | Y | | NQ | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.329 | 0.0303 | 0.0964 | | pCi/L | Y | | NQ | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.408 | 0.0316 | 0.126 | | pCi/L | Y | | NQ | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.369 | 0.0414 | 0.157 | | pCi/L | Y | | NQ | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.356 | 0.0348 | 0.118 | | pCi/L | Y | | NQ | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.331 | 0.0278 | 0.102 | | pCi/L | Y | | NQ | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0337 | 0.0135 | 0.0727 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | Y | 0.062 | 0.0149 | 0.0457 | | pCi/L | Y | | NQ | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.029 | 0.0123 | 0.108 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0 | 0.00684 | 0.101 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0125 | 0.00882 | 0.0755 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0428 | 0.0114 | 0.0454 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.144 | 0.0213 | 0.0919 | | pCi/L | Y | | J | N3B-2019-887 | CAWA-19-166400 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.243 | 0.0266 | 0.059 | | pCi/L | Y | | NQ | 2018-2134 | CAWA-18-151437 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.192 | 0.0225 | 0.127 | | pCi/L | Y | | NQ | 2017-1265 | CAWA-17-130485 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.185 | 0.0298 | 0.101 | | pCi/L | Y | | NQ | 2016-929 | CAWA-16-110752 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.195 | 0.027 | 0.0753 | | pCi/L | Y | | NQ | 2016-929 | CAWA-16-110697 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.171 | 0.0204 | 0.0427 | | pCi/L | Y | | NQ | 2015-772 | CAWA-15-91341 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.49 | | | 1 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.55 | | | 1 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 4.55 | | | 1 | µg/L | Y | J | J | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.88 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.75 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.39 | | | 1 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91368 | GELC |
| R-27 | 852.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | Y | 4.57 | | | 3.3 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166399 | GELC |
| R-27 | 852.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 3.3 | | | 3.3 | µg/L | Y | U | U | 2018-2134 | CAWA-18-151436 | GELC |
| R-27 | 852.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 10 | | | 3.3 | µg/L | Y | U | U | 2017-1265 | CAWA-17-130483 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 10 | | | 3.3 | µg/L | Y | U | U | 2016-929 | CAWA-16-110783 | GELC |
| R-27 | 852.0 | 03/18/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Zinc | Zn | N | 10 | | | 3.3 | µg/L | Y | U | U | 2016-929 | CAWA-16-110700 | GELC |
| R-27 | 852.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 10 | | | 3.3 | µg/L | Y | U | U | 2015-772 | CAWA-15-91368 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.37 | | | 0.01 | SU | Y | H | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.29 | | | 0.01 | SU | Y | H | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.38 | | | 0.01 | SU | Y | H | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.59 | | | 0.01 | SU | Y | H | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.81 | | | 0.01 | SU | Y | H | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 50 | | | 1.45 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 50.6 | | | 1.45 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 50 | | | 1.45 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 50.6 | | | 0.725 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 47.5 | | | 0.725 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | -0.00401 | 0.00567 | 0.0367 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | -0.00194 | 0.007 | 0.0363 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0114 | 0.00708 | 0.0439 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00558 | 0.00416 | 0.0333 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0 | 0.00606 | 0.0352 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 9.37 | | | 1 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 9.52 | | | 1 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 8.97 | | | 1 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 9.43 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 9.35 | | | 1 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 8.58 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 8.08 | | | 0.05 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.15 | | | 0.05 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 8.79 | | | 0.05 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 8.79 | | | 0.05 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -1.49 | 0.933 | 3.06 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.373 | 1.81 | 5.94 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.374 | 1.16 | 3.58 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.565 | 1.53 | 4.75 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -1.62 | 1.34 | 3.92 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.22 | | | 0.067 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.26 | | | 0.067 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.31 | | | 0.067 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.22 | | | 0.067 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.28 | | | 0.067 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.134 | 0.918 | 3.53 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.684 | 1.7 | 6.3 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.751 | 1.01 | 3.58 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -1.66 | 1.42 | 4.93 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 0.778 | 1.16 | 4.98 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.153 | | | 0.033 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.158 | | | 0.033 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.159 | | | 0.033 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.141 | | | 0.033 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.171 | | | 0.033 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.12 | 0.854 | 2.92 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.094 | 0.516 | 2.35 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.623 | 0.413 | 1.58 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.408 | 0.528 | 2.75 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.474 | 0.791 | 2.92 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 2 | 0.803 | 2.55 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | Y | 4.02 | 0.845 | 2.11 | | pCi/L | Y | | NQ | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 1.77 | 0.822 | 2.65 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.452 | 0.308 | 1.02 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.716 | 0.806 | 2.74 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 31.4 | | | 0.453 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 31.1 | | | 0.453 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 33.3 | | | 0.453 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 32.3 | | | 0.453 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 32.2 | | | 0.453 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.42 | | | 0.11 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.64 | | | 0.11 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.54 | | | 0.11 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.5 | | | 0.11 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.5 | | | 0.11 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.91 | | | 0.2 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.52 | | | 0.2 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.63 | | | 0.2 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.49 | | | 0.165 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.54 | | | 0.165 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -1.83 | 1.9 | 6.72 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 4.25 | 3.49 | 10.5 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 2.08 | 3.5 | 8.02 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 3.41 | 3.3 | 11.8 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -0.967 | 3.07 | 10.9 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.106 | | | 0.017 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.0997 | | | 0.017 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.0903 | | | 0.017 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.112 | | | 0.017 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.107 | | | 0.017 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.0957 | | | 0.05 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.117 | | | 0.05 | µg/L | Y | J | J | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.12 | | | 0.05 | µg/L | Y | J | J | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.124 | | | 0.05 | µg/L | Y | J | J | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.112 | | | 0.05 | µg/L | Y | J | J | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.0122 | 0.00808 | 0.0533 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.00405 | 0.00859 | 0.043 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.0255 | 0.0244 | 0.0461 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.0111 | 0.00967 | 0.0351 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0 | 0.00593 | 0.0369 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.00974 | 0.0077 | 0.0622 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.0081 | 0.0095 | 0.0463 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0204 | 0.0119 | 0.0383 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0177 | 0.00941 | 0.0323 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.00629 | 0.00629 | 0.0414 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 0.717 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 0.95 | | | 0.05 | mg/L | Y | | J+ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 0.899 | | | 0.05 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 0.763 | | | 0.05 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 0.673 | | | 0.05 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 1.14 | 28.6 | 39.5 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 7.37 | 20 | 78.6 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -3.82 | 13.6 | 49.1 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 45 | 19.7 | 64.1 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 34.8 | 28.6 | 64.2 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 68.2 | | | 0.053 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 68.7 | | | 0.053 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 65.1 | | | 0.053 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 68 | | | 0.053 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 66.6 | | | 0.053 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 9.61 | | | 0.1 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 9.78 | | | 0.1 | mg/L | Y | N | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10 | | | 0.1 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 9.68 | | | 0.1 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 9.76 | | | 0.1 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 0.0611 | 0.9 | 3.52 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -1.08 | 1.65 | 6 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 0.645 | 1.05 | 3.69 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 1.99 | 1.51 | 5.58 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.18 | 1.5 | 5.52 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 121 | | | 1 | µS/cm | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 104 | | | 1 | µS/cm | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 108 | | | 1 | µS/cm | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 111 | | | 3.63 | µS/cm | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 97.3 | | | 3.63 | µS/cm | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 45.7 | | | 1 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 44.9 | | | 1 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 45.5 | | | 1 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 46.6 | | | 1 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 46.8 | | | 1 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0455 | 0.134 | 0.49 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.262 | 0.0952 | 0.474 | | pCi/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0994 | 0.127 | 0.472 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.037 | 0.132 | 0.491 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.135 | 0.139 | 0.477 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.37 | | | 0.133 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.59 | | | 0.133 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.66 | | | 0.133 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.66 | | | 0.133 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.74 | | | 0.133 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 146 | | | 3.4 | mg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 157 | | | 3.4 | mg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 139 | | | 3.4 | mg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 130 | | | 3.4 | mg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 82.9 | | | 3.4 | mg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | Y | 0.33 | | | 0.33 | mg/L | Y | J | J | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | N | 0.33 | | | 0.33 | mg/L | Y | U | U | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | Y | 0.331 | | | 0.33 | mg/L | Y | J | J | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | N | 1 | | | 0.33 | mg/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | GENERAL CHEMISTRY | SW-846:9060 | Total Organic Carbon | TOC | Y | 0.404 | | | 0.33 | mg/L | Y | J | J | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 0.701 | 0.749 | 2.473 | | pCi/L | Y | U | U | N3B-2019-925 | CAWA-19-166404 | ARSL |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -0.587 | 0.711 | 2.435 | | pCi/L | Y | U | U | 2018-2173 | CAWA-18-151439 | ARSL |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -0.444 | 0.796 | 2.717 | | pCi/L | Y | U | U | 2017-1286 | CAWA-17-130486 | ARSL |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -0.16 | 0.646 | 2.207 | | pCi/L | Y | U | U | 2016-946 | CAWA-16-110753 | ARSL |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 0.833 | 0.666 | 2.17 | | pCi/L | Y | U | U | 2015-789 | CAWA-15-91342 | ARSL |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.282 | | | 0.067 | µg/L | Y | | NQ | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.248 | | | 0.067 | µg/L | Y | | NQ | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.259 | | | 0.067 | µg/L | Y | | NQ | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.294 | | | 0.067 | µg/L | Y | | NQ | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.249 | | | 0.067 | µg/L | Y | | NQ | 2015-772 | CAWA-15-91369 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.187 | 0.025 | 0.0896 | | pCi/L | Y | | NQ | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.257 | 0.027 | 0.0961 | | pCi/L | Y | | NQ | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.213 | 0.0249 | 0.128 | | pCi/L | Y | | NQ | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.215 | 0.0273 | 0.113 | | pCi/L | Y | | NQ | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.193 | 0.0205 | 0.0916 | | pCi/L | Y | | NQ | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0192 | 0.0101 | 0.0829 | | pCi/L | Y | U | U | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | Y | 0.0553 | 0.0142 | 0.0456 | | pCi/L | Y | | NQ | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.044 | 0.0134 | 0.11 | | pCi/L | Y | U | U | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0131 | 0.00978 | 0.0724 | | pCi/L | Y | U | U | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.00723 | 0.00799 | 0.0409 | | pCi/L | Y | U | U | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.112 | 0.0191 | 0.105 | | pCi/L | Y | | NQ | N3B-2019-887 | CAWA-19-166404 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.1 | 0.0182 | 0.0588 | | pCi/L | Y | | NQ | 2018-2134 | CAWA-18-151439 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.138 | 0.0196 | 0.129 | | pCi/L | Y | | NQ | 2017-1265 | CAWA-17-130486 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.133 | 0.0214 | 0.0722 | | pCi/L | Y | | NQ | 2016-929 | CAWA-16-110753 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.0877 | 0.0139 | 0.0385 | | pCi/L | Y | | J | 2015-772 | CAWA-15-91342 | GELC |
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 1.86 | | | 1 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 1.5 | | | 1 | µg/L | Y | J | J | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | N | 5 | | | 1 | µg/L | Y | U | U | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 1.9 | | | 1 | µg/L | Y | J | J | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 1.62 | | | 1 | µg/L | Y | J | J | 2015-772 | CAWA-15-91369 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-27i | 619.0 | 02/08/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | Y | 5.35 | | | 3.3 | µg/L | Y | J | J | N3B-2019-887 | CAWA-19-166403 | GELC |
| R-27i | 619.0 | 03/09/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 3.3 | | | 3.3 | µg/L | Y | U | U | 2018-2134 | CAWA-18-151438 | GELC |
| R-27i | 619.0 | 03/24/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 10 | | | 3.3 | µg/L | Y | U | U | 2017-1265 | CAWA-17-130484 | GELC |
| R-27i | 619.0 | 03/18/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 10 | | | 3.3 | µg/L | Y | U | U | 2016-929 | CAWA-16-110784 | GELC |
| R-27i | 619.0 | 02/06/2015 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Zinc | Zn | N | 10 | | | 3.3 | µg/L | Y | U | U | 2015-772 | CAWA-15-91369 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.07 | | | 0.01 | SU | Y | H | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8 | | | 0.01 | SU | Y | H | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.02 | | | 0.01 | SU | Y | H | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.04 | | | 0.01 | SU | Y | H | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.01 | | | 0.01 | SU | Y | H | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.99 | | | 0.01 | SU | Y | H | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.99 | | | 0.01 | SU | Y | H | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58 | | | 1.45 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58 | | | 1.45 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57 | | | 1.45 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57.7 | | | 1.45 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58 | | | 1.45 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58 | | | 1.45 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 60.2 | | | 1.45 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | -0.00383 | 0.0108 | 0.035 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00588 | 0.00464 | 0.0275 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00411 | 0.00769 | 0.0385 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00161 | 0.00483 | 0.0282 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00378 | 0.00535 | 0.0439 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0161 | 0.00592 | 0.0414 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0215 | 0.0104 | 0.0393 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0644 | | | 0.017 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.206 | | | 0.017 | mg/L | Y | | J+ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.048 | | | 0.017 | mg/L | Y | J | U | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0248 | | | 0.017 | mg/L | Y | J | J | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.0687 | | | 0.017 | mg/L | Y | | U | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.0256 | | | 0.017 | mg/L | Y | J | U | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.139 | | | 0.017 | mg/L | Y | | U | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 15 | | | 1 | µg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 15.2 | | | 1 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Barium | Ba | Y | 14.6 | | | 1 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 15.1 | | | 1 | µg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 15.5 | | | 1 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Barium | Ba | Y | 16.1 | | | 1 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 16 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.3 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.1 | | | 0.05 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.68 | | | 0.05 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.1 | | | 0.05 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.92 | | | 0.05 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.1 | | | 0.05 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.72 | | | 0.05 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.849 | 0.715 | 2.91 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -2 | 1.48 | 4.86 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.242 | 1.66 | 6.56 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.843 | 1.6 | 5.91 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.377 | 0.938 | 3.23 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.733 | 1.05 | 3.24 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.137 | 1.06 | 4 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.62 | | | 0.067 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.62 | | | 0.067 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.64 | | | 0.067 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.68 | | | 0.067 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.75 | | | 0.067 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.77 | | | 0.067 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.71 | | | 0.067 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 0.0638 | 0.625 | 2.62 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 0.284 | 1.14 | 4.75 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -2.83 | 1.93 | 6.43 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 1.43 | 1.09 | 5.05 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 1.78 | 1.06 | 4.32 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -3.07 | 1.11 | 3.27 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -2.31 | 0.913 | 2.12 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.256 | | | 0.033 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.245 | | | 0.033 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.22 | | | 0.033 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.153 | | | 0.033 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.142 | | | 0.033 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.15 | | | 0.033 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.138 | | | 0.033 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.375 | 0.72 | 2.8 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.0876 | 0.28 | 1.82 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.76 | 0.599 | 2.09 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.117 | 0.686 | 2.86 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | Y | 1.02 | 0.34 | 1.01 | | pCi/L | Y | | NQ | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.904 | 0.318 | 0.98 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.326 | 0.521 | 1.87 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 1.57 | 0.606 | 1.86 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 1.12 | 0.656 | 2.15 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:900 | Gross beta | GROSSB | N | 1.55 | 0.765 | 2.44 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.124 | 0.747 | 2.74 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 1.67 | 0.9 | 2.94 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:900 | Gross beta | GROSSB | N | 1.62 | 0.835 | 2.72 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | -0.289 | 0.693 | 2.54 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 39 | | | 0.453 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 37.1 | | | 0.453 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 35.7 | | | 0.453 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 37 | | | 0.453 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 36.1 | | | 0.453 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 36.9 | | | 0.453 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 35.2 | | | 0.453 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.25 | | | 0.11 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.88 | | | 0.11 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.79 | | | 0.11 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.87 | | | 0.11 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.76 | | | 0.11 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.81 | | | 0.11 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.65 | | | 0.11 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 3.55 | | | 2 | µg/L | Y | J | J | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 4 | | | 2 | µg/L | Y | J | J | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 3.77 | | | 2 | µg/L | Y | J | J | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 4.38 | | | 2 | µg/L | Y | J | J | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 5.84 | | | 2 | µg/L | Y | J | J | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 6.27 | | | 2 | µg/L | Y | J | J | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Manganese | Mn | Y | 5.78 | | | 2 | µg/L | Y | J | J | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.25 | | | 0.2 | µg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.35 | | | 0.2 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.29 | | | 0.2 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.15 | | | 0.2 | µg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.42 | | | 0.3 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.37 | | | 0.3 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.3 | | | 0.3 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 0.685 | 1.57 | 5.92 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 1.55 | 2.34 | 8.99 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -0.478 | 3.45 | 11.9 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -0.259 | 2.65 | 7.79 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -2.64 | 1.98 | 6.14 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -0.901 | 1.73 | 5.65 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 3.5 | 2.21 | 8.83 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | Y | 1.5 | | | 0.6 | µg/L | Y | J | J | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | Y | 0.697 | | | 0.6 | µg/L | Y | J | J | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Nickel | Ni | Y | 0.725 | | | 0.6 | µg/L | Y | J | J | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | N | 0.6 | | | 0.6 | µg/L | Y | U | U | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | N | 0.902 | | | 0.5 | µg/L | Y | J | U | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Nickel | Ni | N | 0.872 | | | 0.5 | µg/L | Y | J | U | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Nickel | Ni | N | 2 | | | 0.5 | µg/L | Y | U | U | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.309 | | | 0.017 | mg/L | Y | | J+ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.425 | | | 0.017 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.297 | | | 0.017 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.346 | | | 0.017 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.275 | | | 0.017 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.277 | | | 0.017 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.274 | | | 0.017 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.234 | | | 0.05 | µg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.23 | | | 0.05 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.23 | | | 0.05 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.245 | | | 0.05 | µg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.243 | | | 0.05 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.228 | | | 0.05 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.234 | | | 0.05 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.033 | 0.011 | 0.0515 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.00623 | 0.00804 | 0.0441 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.0131 | 0.00618 | 0.0463 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.00531 | 0.00638 | 0.0307 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00311 | 0.00539 | 0.0563 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00879 | 0.00932 | 0.0397 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.014 | 0.0183 | 0.0491 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0 | 0.00881 | 0.0602 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.00415 | 0.00831 | 0.0475 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.00218 | 0.00578 | 0.05 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.0124 | 0.00638 | 0.0398 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.00311 | 0.0112 | 0.0468 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.0022 | 0.00728 | 0.0331 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0 | 0.0079 | 0.0616 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.12 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.04 | | | 0.05 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Potassium | K | Y | 0.978 | | | 0.05 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.1 | | | 0.05 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.19 | | | 0.05 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.21 | | | 0.05 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.35 | | | 0.05 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 6.89 | 17.2 | 42.5 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 14.3 | 26.7 | 48.2 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 22.4 | 27.9 | 121 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -17 | 12.9 | 42.3 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 43.5 | 17.8 | 31.7 | | pCi/L | Y | UI | R | 2017-1277 | CAAN-17-130479 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -3.49 | 13.1 | 45.8 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 2.52 | 16.3 | 67.3 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 64.2 | | | 0.053 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 63 | | | 0.053 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 59.2 | | | 0.053 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 57.8 | | | 0.053 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 60.8 | | | 0.053 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 62.5 | | | 0.053 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 62.2 | | | 0.053 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.5 | | | 0.1 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11 | | | 0.1 | mg/L | Y | | J+ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.1 | | | 0.1 | mg/L | Y | | J+ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.1 | | | 0.1 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11 | | | 0.1 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11 | | | 0.1 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.6 | | | 0.1 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.591 | 0.798 | 2.34 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 0.833 | 1.25 | 4.89 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 2.41 | 2.25 | 9.98 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 1.64 | 1.17 | 5.09 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.0103 | 0.963 | 3.54 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.344 | 0.86 | 3.26 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 1.29 | 1.14 | 5 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 130 | | | 1 | µS/cm | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 122 | | | 1 | µS/cm | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 126 | | | 1 | µS/cm | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 131 | | | 1 | µS/cm | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 123 | | | 1 | µS/cm | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 124 | | | 1 | µS/cm | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 108 | | | 3.63 | µS/cm | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 55.4 | | | 1 | µg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 57.4 | | | 1 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 56.1 | | | 1 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 58.4 | | | 1 | µg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 58.7 | | | 1 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 59.8 | | | 1 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 57.6 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.296 | 0.141 | 0.448 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.287 | 0.125 | 0.388 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0232 | 0.111 | 0.432 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.272 | 0.144 | 0.464 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.146 | 0.0767 | 0.351 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0383 | 0.123 | 0.494 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.176 | 0.1 | 0.35 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.72 | | | 0.133 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 2.02 | | | 0.133 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 2.04 | | | 0.133 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.96 | | | 0.133 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 2.13 | | | 0.133 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 2.12 | | | 0.133 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 2.32 | | | 0.133 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 1 | | | | deg C | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 1 | | | | deg C | Y | | NQ | 2017-2889 | CAAN-17-144828 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 129 | | | 3.4 | mg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 116 | | | 3.4 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 151 | | | 3.4 | mg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 121 | | | 3.4 | mg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 136 | | | 3.4 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 129 | | | 3.4 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 127 | | | 3.4 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | Y | 3.181 | 1.051 | 2.987 | | pCi/L | Y | | NQ | N3B-2019-872 | CAAN-19-166407 | ARSL |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -0.827 | 0.794 | 2.717 | | pCi/L | Y | U | U | 2018-2112 | CAAN-18-151444 | ARSL |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | m | Tritium | H-3 | N | -0.34 | 0.766 | 2.616 | | pCi/L | Y | U | U | 2018-2112 | CAAN-18-151451 | ARSL |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 0.213 | 0.812 | 2.739 | | pCi/L | Y | U | U | 2017-2937 | CAAN-17-144828 | ARSL |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -1.839 | 0.982 | 3.313 | | pCi/L | Y | U | U | 2017-1286 | CAAN-17-130479 | ARSL |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | m | Tritium | H-3 | N | -2.241 | 0.91 | 3.012 | | pCi/L | Y | U | U | 2017-1286 | CAAN-17-130539 | ARSL |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -1.433 | 0.764 | 2.602 | | pCi/L | Y | U | U | 2016-2325 | CAAN-16-124887 | ARSL |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.436 | | | 0.067 | µg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.387 | | | 0.067 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.381 | | | 0.067 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.404 | | | 0.067 | µg/L | Y | | NQ | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.401 | | | 0.067 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.384 | | | 0.067 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.422 | | | 0.067 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.31 | 0.0363 | 0.105 | | pCi/L | Y | | NQ | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.294 | 0.0284 | 0.0869 | | pCi/L | Y | | J | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.365 | 0.0346 | 0.104 | | pCi/L | Y | | NQ | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.322 | 0.0431 | 0.101 | | pCi/L | Y | | NQ | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.231 | 0.0264 | 0.152 | | pCi/L | Y | | NQ | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.286 | 0.0291 | 0.145 | | pCi/L | Y | | NQ | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.226 | 0.0235 | 0.0824 | | pCi/L | Y | | NQ | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0411 | 0.017 | 0.0973 | | pCi/L | Y | U | U | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0412 | 0.015 | 0.0412 | | pCi/L | Y | U | U | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | Y | 0.0635 | 0.0173 | 0.0494 | | pCi/L | Y | | NQ | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0996 | 0.028 | 0.107 | | pCi/L | Y | U | U | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0174 | 0.0105 | 0.13 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0234 | 0.01 | 0.125 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0137 | 0.00725 | 0.079 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.151 | 0.0258 | 0.122 | | pCi/L | Y | | J | N3B-2019-855 | CAAN-19-166407 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.193 | 0.0227 | 0.0532 | | pCi/L | Y | | J | 2018-2089 | CAAN-18-151444 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.214 | 0.0263 | 0.0637 | | pCi/L | Y | | NQ | 2018-2089 | CAAN-18-151451 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.212 | 0.0346 | 0.0973 | | pCi/L | Y | | NQ | 2017-2889 | CAAN-17-144828 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.194 | 0.0237 | 0.153 | | pCi/L | Y | | NQ | 2017-1277 | CAAN-17-130479 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.17 | 0.0231 | 0.146 | | pCi/L | Y | | NQ | 2017-1277 | CAAN-17-130539 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.157 | 0.0202 | 0.0823 | | pCi/L | Y | | NQ | 2016-2218 | CAAN-16-124887 | GELC |
| R-29 | 1170.0 | 02/05/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.08 | | | 1 | µg/L | Y | | NQ | N3B-2019-855 | CAAN-19-166406 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.18 | | | 1 | µg/L | Y | | NQ | 2018-2089 | CAAN-18-151443 | GELC |
| R-29 | 1170.0 | 03/06/2018 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Vanadium | V | Y | 4.46 | | | 1 | µg/L | Y | J | J | 2018-2089 | CAAN-18-151450 | GELC |
| R-29 | 1170.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 4.56 | | | 1 | µg/L | Y | J | J | 2017-2889 | CAAN-17-144826 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 4.98 | | | 1 | µg/L | Y | J | J | 2017-1277 | CAAN-17-130477 | GELC |
| R-29 | 1170.0 | 03/27/2017 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Vanadium | V | Y | 4.96 | | | 1 | µg/L | Y | J | J | 2017-1277 | CAAN-17-130540 | GELC |
| R-29 | 1170.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 5.18 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124889 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.14 | | | 0.01 | SU | Y | H | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.18 | | | 0.01 | SU | Y | H | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.12 | | | 0.01 | SU | Y | H | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.1 | | | 0.01 | SU | Y | H | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 8.17 | | | 0.01 | SU | Y | H | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.97 | | | 0.01 | SU | Y | H | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:150.1 | Acidity or Alkalinity of a solution | pH | Y | 7.94 | | | 0.01 | SU | Y | H | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58 | | | 1.45 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 58.2 | | | 1.45 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57 | | | 1.45 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57.3 | | | 1.45 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 57 | | | 1.45 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 60.2 | | | 1.45 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:310.1 | Alkalinity-CO3+HCO3 | ALK-CO3+HCO3 | Y | 59.2 | | | 1.45 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0312 | 0.0125 | 0.0439 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00741 | 0.00741 | 0.0452 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0 | 0.0103 | 0.041 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00681 | 0.00539 | 0.0299 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | -0.00383 | 0.00542 | 0.0444 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.0203 | 0.0095 | 0.0417 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:AM-241 | Americium-241 | Am-241 | N | 0.00933 | 0.0128 | 0.051 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0766 | | | 0.017 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0413 | | | 0.017 | mg/L | Y | J | J | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0574 | | | 0.017 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | Y | 0.0477 | | | 0.017 | mg/L | Y | J | J | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.0208 | | | 0.017 | mg/L | Y | J | U | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.0195 | | | 0.017 | mg/L | Y | J | U | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:350.1 | Ammonia as Nitrogen | NH3-N | N | 0.0932 | | | 0.017 | mg/L | Y | | U | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | Y | 2.15 | | | 2 | µg/L | Y | J | J | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Arsenic | As | Y | 2.45 | | | 2 | µg/L | Y | J | J | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | N | 2 | | | 2 | µg/L | Y | U | U | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | N | 2 | | | 2 | µg/L | Y | U | U | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | N | 5 | | | 1.7 | µg/L | Y | U | U | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Arsenic | As | Y | 1.78 | | | 1.7 | µg/L | Y | J | J | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Arsenic | As | Y | 1.83 | | | 1.7 | µg/L | Y | J | J | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 14.1 | | | 1 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Barium | Ba | Y | 13.9 | | | 1 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 14.6 | | | 1 | µg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 13 | | | 1 | µg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 13.5 | | | 1 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Barium | Ba | Y | 13.3 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Barium | Ba | Y | 13.1 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 0.323 | | | 0.323 | µg/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | Y | 0.55 | | | 0.3 | µg/L | Y | J | J | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 0.316 | | | 0.316 | µg/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 3.13 | | | 3.13 | µg/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 10.2 | | | 3.06 | µg/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 10.3 | | | 3.09 | µg/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | SVOC | SW-846:8270D | Bis(2-ethylhexyl)phthalate | 117-81-7 | N | 10.4 | | | 3.13 | µg/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.3 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.2 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 10.4 | | | 0.05 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.43 | | | 0.05 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.67 | | | 0.05 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.24 | | | 0.05 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Calcium | Ca | Y | 9.12 | | | 0.05 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.0294 | 1.2 | 3.97 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -0.389 | 1.13 | 3.88 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 1.74 | 0.989 | 3.01 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | -2.01 | 1.45 | 5.05 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 0.826 | 1.84 | 6.39 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 1.42 | 1.69 | 5.92 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cesium-137 | Cs-137 | N | 1.81 | 2.04 | 4.41 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.55 | | | 0.067 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.54 | | | 0.067 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.58 | | | 0.067 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.6 | | | 0.067 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.64 | | | 0.067 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.61 | | | 0.067 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Chloride | Cl(-1) | Y | 1.61 | | | 0.067 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -1.27 | 1.04 | 3.53 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 1.19 | 0.994 | 4.14 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.22 | 0.947 | 3.29 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.976 | 1.58 | 5.61 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | 2.75 | 1.48 | 7.29 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.843 | 1.43 | 5.11 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Cobalt-60 | Co-60 | N | -0.271 | 1.1 | 3.43 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.212 | | | 0.033 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.293 | | | 0.033 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.179 | | | 0.033 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.182 | | | 0.033 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.156 | | | 0.033 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.142 | | | 0.033 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Fluoride | F(-1) | Y | 0.143 | | | 0.033 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.256 | 0.75 | 2.88 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 1.03 | 0.841 | 2.86 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.711 | 0.627 | 2.27 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | 0.544 | 0.716 | 2.74 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.424 | 0.299 | 1.14 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:900 | Gross alpha | GROSSA | N | -0.0401 | 0.293 | 1.03 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross alpha | GROSSA | N | -1.16 | 0.423 | 1.61 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:900 | Gross beta | GROSSB | N | 1.1 | 0.901 | 3 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.575 | 0.867 | 2.96 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.724 | 0.725 | 2.51 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.927 | 0.807 | 2.75 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 1.42 | 0.747 | 2.44 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:900 | Gross beta | GROSSB | Y | 6.5 | 1.01 | 2.53 | | pCi/L | Y | | NQ | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:900 | Gross beta | GROSSB | N | 0.606 | 0.719 | 2.47 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 38.5 | | | 0.453 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 38.2 | | | 0.453 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 38.8 | | | 0.453 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 35.3 | | | 0.453 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 36 | | | 0.453 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 34.4 | | | 0.453 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SM:A2340B | Hardness | HARDNESS | Y | 34 | | | 0.453 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.13 | | | 0.11 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.08 | | | 0.11 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 3.1 | | | 0.11 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.86 | | | 0.11 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.88 | | | 0.11 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.75 | | | 0.11 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Magnesium | Mg | Y | 2.73 | | | 0.11 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.22 | | | 0.2 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.16 | | | 0.2 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.26 | | | 0.2 | µg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.13 | | | 0.2 | µg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.38 | | | 0.3 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.2 | | | 0.3 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Molybdenum | Mo | Y | 1.22 | | | 0.3 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -0.267 | 2.33 | 7.22 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 1.77 | 1.86 | 7.01 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -1.04 | 1.73 | 6.13 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 1.77 | 3.09 | 11.4 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 4.85 | 2.8 | 10.6 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | 5.28 | 4.85 | 11.1 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Neptunium-237 | Np-237 | N | -1.4 | 2.19 | 6.86 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.333 | | | 0.017 | mg/L | Y | | J+ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.326 | | | 0.017 | mg/L | Y | | J+ | N3B-2019-860 | CAAN-19-166416 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.316 | | | 0.017 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.381 | | | 0.017 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.294 | | | 0.017 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.292 | | | 0.017 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:353.2 | Nitrate-Nitrite as Nitrogen | NO3+NO2-N | Y | 0.29 | | | 0.017 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.237 | | | 0.05 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.205 | | | 0.05 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.247 | | | 0.05 | µg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.262 | | | 0.05 | µg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.259 | | | 0.05 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.218 | | | 0.05 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | LCMS/MS PERCHLORATE | SW-846:6850 | Perchlorate | ClO4 | Y | 0.225 | | | 0.05 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00228 | 0.0051 | 0.0499 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00474 | 0.00821 | 0.0519 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00634 | 0.00969 | 0.0448 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00699 | 0.00773 | 0.0404 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | -0.0286 | 0.0151 | 0.0646 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0 | 0.0107 | 0.0593 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-238 | Pu-238 | N | 0.00284 | 0.00852 | 0.0499 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.0433 | 0.0114 | 0.0582 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.019 | 0.0134 | 0.0606 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | 0.000000000705 | 0.00518 | 0.0484 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.0163 | 0.00902 | 0.0524 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.00714 | 0.0101 | 0.0537 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.00674 | 0.00953 | 0.0744 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOPU | Plutonium-239/240 | Pu-239/240 | N | -0.00284 | 0.00942 | 0.0627 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.2 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.19 | | | 0.05 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.23 | | | 0.05 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.09 | | | 0.05 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.19 | | | 0.05 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.24 | | | 0.05 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Potassium | K | Y | 1.27 | | | 0.05 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 16.3 | 21 | 50.8 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -14.1 | 13.1 | 48.7 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -23 | 11.9 | 40.2 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 79.1 | 30 | 54.6 | | pCi/L | Y | UI | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | -37.1 | 21.1 | 77.2 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 19.5 | 21.9 | 55.1 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Potassium-40 | K-40 | N | 10.7 | 14.7 | 60.5 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 71.4 | | | 0.053 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 71.2 | | | 0.053 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 72 | | | 0.053 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 62.5 | | | 0.053 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 65.2 | | | 0.053 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 65.6 | | | 0.053 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Silicon Dioxide | SiO2 | Y | 65.2 | | | 0.053 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11 | | | 0.1 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11 | | | 0.1 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 11.2 | | | 0.1 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.2 | | | 0.1 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 12 | | | 0.1 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.4 | | | 0.1 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Sodium | Na | Y | 10.4 | | | 0.1 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -2.26 | 0.985 | 2.88 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.596 | 0.9 | 3.23 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.182 | 0.853 | 2.99 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -1.34 | 1.84 | 5.47 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | 0.418 | 1.59 | 6.37 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.49 | 1.41 | 5.21 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:901.1 | Sodium-22 | Na-22 | N | -0.896 | 1.16 | 4.15 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 119 | | | 1 | µS/cm | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 120 | | | 1 | µS/cm | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 119 | | | 1 | µS/cm | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 129 | | | 1 | µS/cm | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 121 | | | 1 | µS/cm | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 107 | | | 3.63 | µS/cm | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:120.1 | Specific Conductance | SPEC_CONDC | Y | 105 | | | 3.63 | µS/cm | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 48.6 | | | 1 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 48.3 | | | 1 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 52.2 | | | 1 | µg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 49.6 | | | 1 | µg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 50.4 | | | 1 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 48.2 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Strontium | Sr | Y | 47.5 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.37 | 0.125 | 0.402 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.301 | 0.119 | 0.37 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.199 | 0.114 | 0.499 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0837 | 0.102 | 0.436 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.168 | 0.102 | 0.336 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | -0.0665 | 0.128 | 0.484 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | EPA:905.0 | Strontium-90 | Sr-90 | N | 0.0116 | 0.0595 | 0.204 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.49 | | | 0.133 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.52 | | | 0.133 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.57 | | | 0.133 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.59 | | | 0.133 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.65 | | | 0.133 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.65 | | | 0.133 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:300.0 | Sulfate | SO4(-2) | Y | 1.62 | | | 0.133 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 2 | | | | deg C | Y | | NQ | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 4 | | | | deg C | Y | | NQ | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 4 | | | | deg C | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 1 | | | | deg C | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | VOC | EPA:170.0 | Temperature | TEMP | Y | 1 | | | | deg C | Y | | NQ | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 129 | | | 3.4 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 211 | | | 3.4 | mg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 97.1 | | | 3.4 | mg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 117 | | | 3.4 | mg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 137 | | | 3.4 | mg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 116 | | | 3.4 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | GENERAL CHEMISTRY | EPA:160.1 | Total Dissolved Solids | TDS | Y | 107 | | | 3.4 | mg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | m | Tritium | H-3 | N | -0.826 | 0.89 | 3.031 | | pCi/L | Y | U | U | N3B-2019-872 | CAAN-19-166417 | ARSL |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -1.181 | 0.867 | 2.941 | | pCi/L | Y | U | U | N3B-2019-872 | CAAN-19-166487 | ARSL |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -1.479 | 0.635 | 2.118 | | pCi/L | Y | U | U | 2018-2112 | CAAN-18-151491 | ARSL |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 1.679 | 0.792 | 2.441 | | pCi/L | Y | U | U | 2017-2937 | CAAN-17-144829 | ARSL |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | 0.138 | 0.864 | 2.92 | | pCi/L | Y | U | U | 2017-1286 | CAAN-17-130480 | ARSL |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | m | Tritium | H-3 | N | -0.828 | 0.576 | 1.974 | | pCi/L | Y | U | U | 2016-2325 | CAAN-16-124888 | ARSL |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | m | Tritium | H-3 | N | 0.024 | 0.581 | 1.978 | | pCi/L | Y | U | U | 2016-2325 | CAAN-16-124883 | ARSL |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.509 | | | 0.067 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |

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

| Location | Depth (ft) | Date | Field Matrix | Field Prep | Lab Sample Type | Field QC Type | Suite | Method | Analyte | Analyte Code | Detect Flag | Result | 1-sigma TPU | MDA | MDL | Unit | Best Value | Lab Qual | 2nd Qual | Request | Sample | Lab |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.504 | | | 0.067 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.434 | | | 0.067 | µg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.521 | | | 0.067 | µg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.46 | | | 0.067 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.488 | | | 0.067 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6020 | Uranium | U | Y | 0.53 | | | 0.067 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.335 | 0.0479 | 0.163 | | pCi/L | Y | | NQ | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.32 | 0.0479 | 0.164 | | pCi/L | Y | | NQ | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.316 | 0.0263 | 0.0741 | | pCi/L | Y | | NQ | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.397 | 0.0477 | 0.0986 | | pCi/L | Y | | NQ | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.265 | 0.0266 | 0.136 | | pCi/L | Y | | NQ | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.338 | 0.0283 | 0.0801 | | pCi/L | Y | | NQ | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-234 | U-234 | Y | 0.295 | 0.0254 | 0.0773 | | pCi/L | Y | | NQ | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0476 | 0.0214 | 0.152 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0358 | 0.0203 | 0.152 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0175 | 0.0109 | 0.0351 | | pCi/L | Y | U | U | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0488 | 0.0201 | 0.105 | | pCi/L | Y | U | U | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0436 | 0.0125 | 0.117 | | pCi/L | Y | U | U | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.0106 | 0.00652 | 0.0767 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-235/236 | U-235/236 | N | 0.018 | 0.00926 | 0.074 | | pCi/L | Y | U | U | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-238 | U-238 | N | 0.167 | 0.0335 | 0.19 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166417 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | N | 0.183 | 0.0364 | 0.191 | | pCi/L | Y | U | U | N3B-2019-860 | CAAN-19-166487 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.144 | 0.0189 | 0.0453 | | pCi/L | Y | | NQ | 2018-2098 | CAAN-18-151491 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.208 | 0.0339 | 0.0954 | | pCi/L | Y | | NQ | 2017-2890 | CAAN-17-144829 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.224 | 0.0251 | 0.137 | | pCi/L | Y | | NQ | 2017-1277 | CAAN-17-130480 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | FD | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.198 | 0.0213 | 0.08 | | pCi/L | Y | | NQ | 2016-2218 | CAAN-16-124883 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | UF | INIT | REG | RAD | HASL-300:ISOU | Uranium-238 | U-238 | Y | 0.158 | 0.0186 | 0.0772 | | pCi/L | Y | | NQ | 2016-2218 | CAAN-16-124888 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.67 | | | 1 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166413 | GELC |
| R-30 | 1140.0 | 02/06/2019 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.73 | | | 1 | µg/L | Y | | NQ | N3B-2019-860 | CAAN-19-166416 | GELC |
| R-30 | 1140.0 | 03/07/2018 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 7.31 | | | 1 | µg/L | Y | | NQ | 2018-2098 | CAAN-18-151446 | GELC |
| R-30 | 1140.0 | 09/22/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.03 | | | 1 | µg/L | Y | | NQ | 2017-2890 | CAAN-17-144827 | GELC |
| R-30 | 1140.0 | 03/27/2017 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.25 | | | 1 | µg/L | Y | | NQ | 2017-1277 | CAAN-17-130478 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | REG | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.35 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124890 | GELC |
| R-30 | 1140.0 | 08/26/2016 | WG | F | INIT | FD | INORGANIC | SW-846:6010C | Vanadium | V | Y | 6.37 | | | 1 | µg/L | Y | | NQ | 2016-2218 | CAAN-16-124884 | 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)*

## CD Table of Contents

| Chain of Custody | Category | Lab | Sample | Date | Location | Screen Top Depth (ft) | Screen Bottom Depth (ft) |
|---|---|---|---|---|---|---|---|
| N3B-2019-855 | Inorganic | GELC[a] | CAAN-19-166406 | 02/05/2019 | R-29 | 1170.000 | 1180.000 |
| N3B-2019-855 | Inorganic | GELC | CAAN-19-166407 | 02/05/2019 | R-29 | 1170.000 | 1180.000 |
| N3B-2019-855 | Organic | GELC | CAAN-19-166407 | 02/05/2019 | R-29 | 1170.000 | 1180.000 |
| N3B-2019-855 | Rad[b] | GELC | CAAN-19-166407 | 02/05/2019 | R-29 | 1170.000 | 1180.000 |
| N3B-2019-860 | Inorganic | GELC | CAAN-19-166413 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-860 | Inorganic | GELC | CAAN-19-166416 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-860 | Inorganic | GELC | CAAN-19-166417 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-860 | Inorganic | GELC | CAAN-19-166487 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-860 | Organic | GELC | CAAN-19-166417 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-860 | Organic | GELC | CAAN-19-166487 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-860 | Rad | GELC | CAAN-19-166417 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-860 | Rad | GELC | CAAN-19-166487 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-872 | Rad | ARSL[c] | CAAN-19-166407 | 02/05/2019 | R-29 | 1170.000 | 1180.000 |
| N3B-2019-872 | Rad | ARSL | CAAN-19-166417 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-872 | Rad | ARSL | CAAN-19-166487 | 02/06/2019 | R-30 | 1140.000 | 1160.900 |
| N3B-2019-887 | Inorganic | GELC | CAWA-19-166399 | 02/08/2019 | R-27 | 852.000 | 875.000 |
| N3B-2019-887 | Inorganic | GELC | CAWA-19-166400 | 02/08/2019 | R-27 | 852.000 | 875.000 |
| N3B-2019-887 | Inorganic | GELC | CAWA-19-166403 | 02/08/2019 | R-27i | 619.000 | 629.000 |
| N3B-2019-887 | Inorganic | GELC | CAWA-19-166404 | 02/08/2019 | R-27i | 619.000 | 629.000 |
| N3B-2019-887 | Organic | GELC | CAWA-19-166400 | 02/08/2019 | R-27 | 852.000 | 875.000 |
| N3B-2019-887 | Organic | GELC | CAWA-19-166404 | 02/08/2019 | R-27i | 619.000 | 629.000 |
| N3B-2019-887 | Rad | GELC | CAWA-19-166400 | 02/08/2019 | R-27 | 852.000 | 875.000 |
| N3B-2019-887 | Rad | GELC | CAWA-19-166404 | 02/08/2019 | R-27i | 619.000 | 629.000 |
| N3B-2019-925 | Rad | ARSL | CAWA-19-166400 | 02/08/2019 | R-27 | 852.000 | 875.000 |
| N3B-2019-925 | Rad | ARSL | CAWA-19-166404 | 02/08/2019 | R-27i | 619.000 | 629.000 |

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

[b] Rad = Radiochemistry (not gamma).

[c] ARSL = American Radiation Services, Inc.

**Response to New Mexico Environment Department Comments on the Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Ancho Canyon and Water Canyon, Dated August 2019**

## 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. Table 5.2-1, MDA AB Monitoring Group Groundwater Results Above Screening Values, page 18***

*DOE Statement: There are no results above screening values reported for data reported in this PMR.*

*This statement is not accurate, since several of the analytes reported in the PMR have method detection limits (MDLs) or Minimum Detection Activities (MDAs) that are greater than the screening level values. Please revise the above statement to clarify that there are analytes with MDAs and MDLs above screening levels.*

**DOE Response**

1. This statement has been revised to say "There are no detected groundwater analytical results reported in this PMR above the applicable screening value."

**NMED Comment**

***2. Table C-1***

*NMED notes that screening level values were not reported for several analytes. For example, vanadium was detected at 5.49 µg/L at R-27on February 8, 2019, however, the screening value of 63.1 µg/L (NMED Tap Water Noncancer SSL) was not included in Table C-1. Please review Table C-1 to include all applicable standards.*

**DOE Response**

2. Table C-1 has been revised to include all applicable standards.