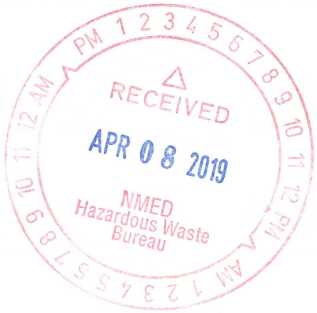
Ltr: EMID-700389
TA-16 260: EMID-700391
MDA AB: EMID-700392

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



APR 0 8 2019

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

Dear Mr. Kieling:

Subject: Submittal of the Annual Periodic Monitoring Report for the Technical Area 16 260 Monitoring Group, Revision 1, and the Annual Periodic Monitoring Report for Material Disposal Area AB Monitoring Group, Revision 1

Enclosed please find two hard copies with electronic files of the "Annual Periodic Monitoring Report for the Technical Area 16 260 Monitoring Group, Revision 1," and the "Annual Periodic Monitoring Report for Material Disposal Area AB Monitoring Group, Revision 1."

This report is submitted in response to comments received from the New Mexico Environment Department (NMED) on September 18, 2018; copies of the comments are enclosed.

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

Sincerely,

for

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

Enclosures:
1. Annual Periodic Monitoring Report for the Technical Area 16 260 Monitoring Group, Revision 1 (EM2019-0111)
2. Annual Periodic Monitoring Report for Material Disposal Area AB Monitoring Group, Revision 1 (EM2019-0110)

3. NMED Comments of the Annual Periodic Monitoring Report for the Technical Area 16 260 Monitoring Group, August 2018 (Report)
4. NMED Comments of the Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, August 2018 (Report)

cc (letter with hard-copy enclosure[s]):
S. Veenis, N3B

cc (letter with CD enclosure[s]):
L. King, EPA Region 6, Dallas, TX
R. Martinez, San Ildefonso Pueblo, NM
D. Chavarria, Santa Clara Pueblo, NM
N. Schiavo, City of Santa Fe, NM
J. Richardson, Los Alamos County, NM
N. Dhawan, NMED
M. Hunter, NMED
S. Yanicak, NMED
T. McCrory, EM-LA
C. Rodriguez, EM-LA
emla.docs@em.doe.gov
N3B Records
Public Reading Room (EPRR)
PRS Website

cc (letter emailed without enclosure[s]):
E. Evered, N3B
L. Huntoon, N3B
D. Katzman, N3B
J. Legare, N3B
F. Lockhart, N3B
G. Morgan, N3B
B. Robinson, N3B
A. Duran, EM-LA
D. Nickless, EM-LA
D. Rhodes, EM-LA
H. Shen, EM-LA

EM-LA-40AD-00425

April 2019
EM2019-0110

Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, 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.

EM2019-0110

Annual Periodic Monitoring Report for the Material Disposal Area AB Monitoring Group, Revision 1

April 2019

Responsible program director:

Printed Name	Signature	Title	Organization	Date
Bruce Robinson		Program Director	Water Program	4/1/2019

Responsible N3B representative:

Printed Name	Signature	Title	Organization	Date
Erich Evered		Program Manager	N3B Environmental Remediation Program	4/1/2019

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	4-4-2019

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 2017 Monitoring Year, October 2016–September 2017" and the "Interim Facility-Wide Groundwater Monitoring Plan for the 2018 Monitoring Year, October 2017–September 2018," both prepared in accordance with the Compliance Order on Consent.

This PMR presents monitoring results for two periodic monitoring events (PMEs) conducted during the fourth quarter of monitoring year (MY) 2017 and the second quarter of MY2018 and includes the monitoring of groundwater well or well screen locations. There are no surface-water monitoring locations in the MDA AB monitoring group. This PMR also includes any results from earlier MDA AB monitoring group PMEs that have not yet been reported because validated laboratory data were not available (in some cases because of data release agreements).

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

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

CONTENTS

Figures

Tables

Appendixes

Acronyms and Abbreviations

BCG	Biota Concentration Guide (DOE)
CFR	Code of Federal Regulations (U.S.)
Consent Order	Compliance Order on Consent
DCS	Derived Concentration Technical Standard (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
gpm	gallons per minute
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MDA	material disposal area
MDL	method detection limit
MY	monitoring year
N	no (best value flag code)
N3B	Newport News Nuclear BWXT-Los Alamos, LLC
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
QC	quality control
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
TA	technical area
TNT	2,4,6-trinitrotoluene
Y	yes (best value flag code)

1.0 INTRODUCTION

This annual periodic monitoring report (PMR) for the Material Disposal Area (MDA) AB monitoring group provides documentation of the following groundwater periodic monitoring events (PMEs) conducted by Los Alamos National Laboratory (LANL or the Laboratory):

Watersheds	PMEs Reported in this PMR		PME Field Sampling	
	MY*	Quarter	Begin	End
Ancho Water	2017	4	09/22/17	09/22/17
	2018	2	03/06/18	03/09/18

*MY = Monitoring year.

The annual PMR for the MDA AB monitoring group is submitted to the New Mexico Environment Department (NMED) every August and includes MDA AB monitoring group PMEs performed through the second quarter of MY2018. During the third quarter of fiscal year 2018, environmental remediation work transitioned from the Laboratory, under the U.S. Department of Energy (DOE) National Nuclear Security Administration, to Newport News Nuclear BWXT – Los Alamos, LLC (N3B) under the DOE Office of Environmental Management.

Monitoring was conducted pursuant to the "Interim Facility-Wide Groundwater Monitoring Plan for the 2017 Monitoring Year, October 2016–September 2017" (2016 IFGMP) (LANL 2016, 601506) and the "Interim Facility-Wide Groundwater Monitoring Plan for the 2018 Monitoring Year, October 2017–September 2018" (2018 IFGMP) (LANL 2017, 602406), both prepared in accordance with the Compliance Order on Consent (the Consent Order). The PMEs noted above included sampling of groundwater well (or well screen) locations.

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

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

This report presents the following information:

- general background information on the 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 DOE policy.

Background

At MDA AB, groundwater monitoring is conducted to support the corrective measures process for solid waste management units and areas of concern 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 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: isotopes of uranium and plutonium, lead, and beryllium; high explosives such as TNT (2,4,6-trinitrotoluene), RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine), and HMX (octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine); and barium nitrate. Much of this material remains in shafts on the mesa top. Further information about activities and solid waste management units and areas of concern at TA-49 can be found in recent Laboratory reports (LANL 2016, 601698; LANL 2016, 601699).

2.0 SCOPE OF ACTIVITIES

The PMEs for the MDA AB monitoring group were conducted pursuant to the 2017 IFGMP (LANL 2016, 601506) and the 2018 IFGMP (LANL 2017, 602406).

Table 2.0-1 provides the name, watershed, sample collection date, screened interval, top and bottom screen depths, casing volume, purge volume, and purge or flow rate for each of the planned monitoring locations. These locations are shown in Figure 2.0-1.

3.0 REGULATORY CRITERIA

Regulatory criteria related to groundwater water quality form the basis for the screening values to which groundwater monitoring results are compared in this PMR. These criteria include the NMWQCC groundwater standards, EPA MCLs, NMED screening levels for tap water, and EPA regional screening levels for tap water. These criteria are used to screen results in accordance with the process specified in Section I.X of the Consent Order and are listed in Table 3.0-1. This screening process is described in more detail in section 5.2.

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 2017 IFGMP (LANL 2016, 601506) and 2018 IFGMP (LANL 2017, 602406).

4.2 Field Parameter Results

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

4.3 Groundwater Elevations

The groundwater level is measured at each groundwater monitoring location before purging and sampling that location as required by the Consent Order. Section 4.4 notes any instances where this requirement could not be met.

In addition to collecting groundwater-level data before purging and sampling, the Laboratory has 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:

- Dry well
- Well not equipped with a pressure (level) transducer
- Water level below transducer
- Transducer not functioning properly (including failure)
- Transducer temporarily removed from well for maintenance and/or calibration

Groundwater-level data for the previous 2 yr are presented in Appendix B (on CD included with this document). For wells equipped with transducers, the reported water level is the water-level measurement taken earliest on the day of sampling. All manual measurements were recorded immediately before sampling. The groundwater-elevation measurements are shown graphically in Figure 4.3-1.

4.4 Deviations from Planned Scope

Table 4.4-1 summarizes the deviations from the planned monitoring scope that were experienced while conducting the work associated with the monitoring data reported in this PMR.

Table 4.4-2 presents a list of analytes with method detection limits (MDLs) greater than screening values. Some of the analytes were measured using more than one analytical method, leading to a range of MDLs. This table applies to the results with the lowest MDL, so the analytical method and analytical laboratory are included in the table for reference.

5.0 ANALYTICAL DATA RESULTS

5.1 Methods and Procedures

All methods and procedures used to perform PME analytical activities are documented in the 2017 IFGMP (LANL 2016, 601506) and the 2018 IFGMP (LANL 2017, 602406). Purge water is managed and characterized in accordance with the waste characterization strategy form associated with the well and the "Land Application of Groundwater" procedure. The "Land Application of Groundwater" procedure implements the NMED-approved decision tree for land application of drilling, development, rehabilitation, and purge water.

All sampling, data reviews, and data package validations were conducted using standard operating procedures (SOPs) that are part of a comprehensive quality assurance program. N3B has transferred ownership of all applicable procedures and is operating to them. Completed chain-of-custody forms serve as analytical request forms and include the requester or owner, sample number, program code, date and time of sample collection, total number of bottles, list of analytes to be measured, bottle sizes, and preservatives for each required analysis.

Data validation determines the quality of an analytical data set and focuses on specific quality assurance samples, such as matrix spikes, duplicates, surrogates, method blanks, and laboratory control samples, and holding times, which indicate the accuracy and precision of the analyses. Based on the results, data qualifiers are applied to indicate data quality issues as well as the usability of results. This process also includes a description of the reasons for any failure to meet method, procedural, or contractual requirements and an evaluation of the impact of such failure on the overall data set.

The required analytical laboratory batch quality control (QC) is defined by the analytical method, the analytical statement of work, and generally accepted industry practices. The analytical laboratory assigns qualifiers to the data to indicate the quality of the analytical results. The laboratory batch QC is used in the secondary data validation process to evaluate the quality of individual analytical results, evaluate the appropriateness of the analytical methodologies, and measure the routine performance of the analytical laboratory.

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

After the analytical laboratory submits data packages, the packages receive in-house secondary validation. As a result of secondary validation, a second set of qualifiers was assigned to the analytical results. Secondary validation is currently done by an automated process after the data are loaded.

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

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

5.2 Analytical Data

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

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

- All data
  - ❖ Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered unusable but are still reported.
  - ❖ Analytical laboratory QC results, including matrix spike and matrix spike duplicates, and field blanks, trip blanks, and equipment blanks are not included in the data set.
  - ❖ Field duplicates, reanalyses, and results from different analytical methods are reported.
- Radionuclides
  - ❖ Only cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
  - ❖ Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.
  - ❖ Other than above, all results are reported at all locations.
- Nonradionuclides
  - ❖ All detected results are reported.

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

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.

- The base-flow monitoring locations are assigned to one of two screening categories—perennial or ephemeral. Along with a hardness value, this category determines the screening values used for data at each monitoring location. Hardness-dependent screening values used to screen data at each base-flow monitoring location are determined using the geometric mean of hardness data (mg/L as calcium carbonate) collected from 2006 to 2010 at each location. Hardness-dependent acute and chronic criteria were used for total recoverable aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.900.
- Groundwater data are screened in accordance to Section IX of the Consent Order. For an individual substance, the lower 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. The NMED screening levels are for either a cancer- or noncancer-risk type. For the cancer-risk type, the screening levels are based on a 10^{-5} excess cancer risk. This report was prepared using the March 2017 NMED screening levels for tap water.

If an 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 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 for 10^{-6} excess cancer risk, so 10 times the EPA 10^{-6} screening levels are used in the screening process. This report was prepared using the November 2017 EPA regional screening levels for tap water.

- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. EPA MCLs are applied to both filtered and unfiltered sample results.
- The analytical results for radionuclides and radioactivity are voluntarily compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Technical Standards (DCSs) for groundwater 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 4.2-2 provides groundwater analytical results (by hydrogeologic zone for a specific analytical suite) that are above screening values. Multiple detections are included in the table except for field duplicate exceedances. For example, if aluminum was detected above its screening value in both a primary sample and a field duplicate, only the primary sample result is shown. If aluminum was detected above its screening value in two primary samples, both results are shown. As noted in Table 5.2-1, there were no locations where an analyte was above its screening value for the data reported in this PMR.

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

Graphs in Appendix E display analyte concentration histories for monitoring group locations where the analyte was above its screening value at least once in the following expanded data set: data reported in this PMR plus data for the three 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 three 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 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 groundwater analytical results reported in this PMR were above screening values.

6.3 Data Gaps

Table 4.4-1 summarizes the deviations from the planned monitoring scope that were experienced while conducting the work associated with the monitoring data reported in this 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 all 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 the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above). IDs are used to locate documents in N3B's Records Management System and in the Master Reference Set. The NMED Hazardous Waste Bureau and N3B maintain copies of the Master Reference Set. The set ensures that NMED has the references to review documents. The set is updated when new references are cited in documents.

LANL (Los Alamos National Laboratory), 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 2016. "Interim Facility-Wide Groundwater Monitoring Plan for the 2017 Monitoring Year, October 2016–September 2017," Los Alamos National Laboratory document LA-UR-16-23408, Los Alamos, New Mexico. (LANL 2016, 601506)

LANL (Los Alamos National Laboratory), August 2016. "Supplemental Investigation Report for Sites at Technical Area 49 Outside the Nuclear Environmental Site Boundary," Los Alamos National Laboratory document LA-UR-16-25264, Los Alamos, New Mexico. (LANL 2016, 601698)

LANL (Los Alamos National Laboratory), August 2016. "Supplemental Investigation Report for Sites at Technical Area 49 Inside the Nuclear Environmental Site Boundary," Los Alamos National Laboratory document LA-UR-16-25263, Los Alamos, New Mexico. (LANL 2016, 601699)

LANL (Los Alamos National Laboratory), May 2017. "Interim Facility-Wide Groundwater Monitoring Plan for the 2018 Monitoring Year, October 2017–September 2018," Los Alamos National Laboratory document LA-UR-17-24070, Los Alamos, New Mexico. (LANL 2017, 602406)

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

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)

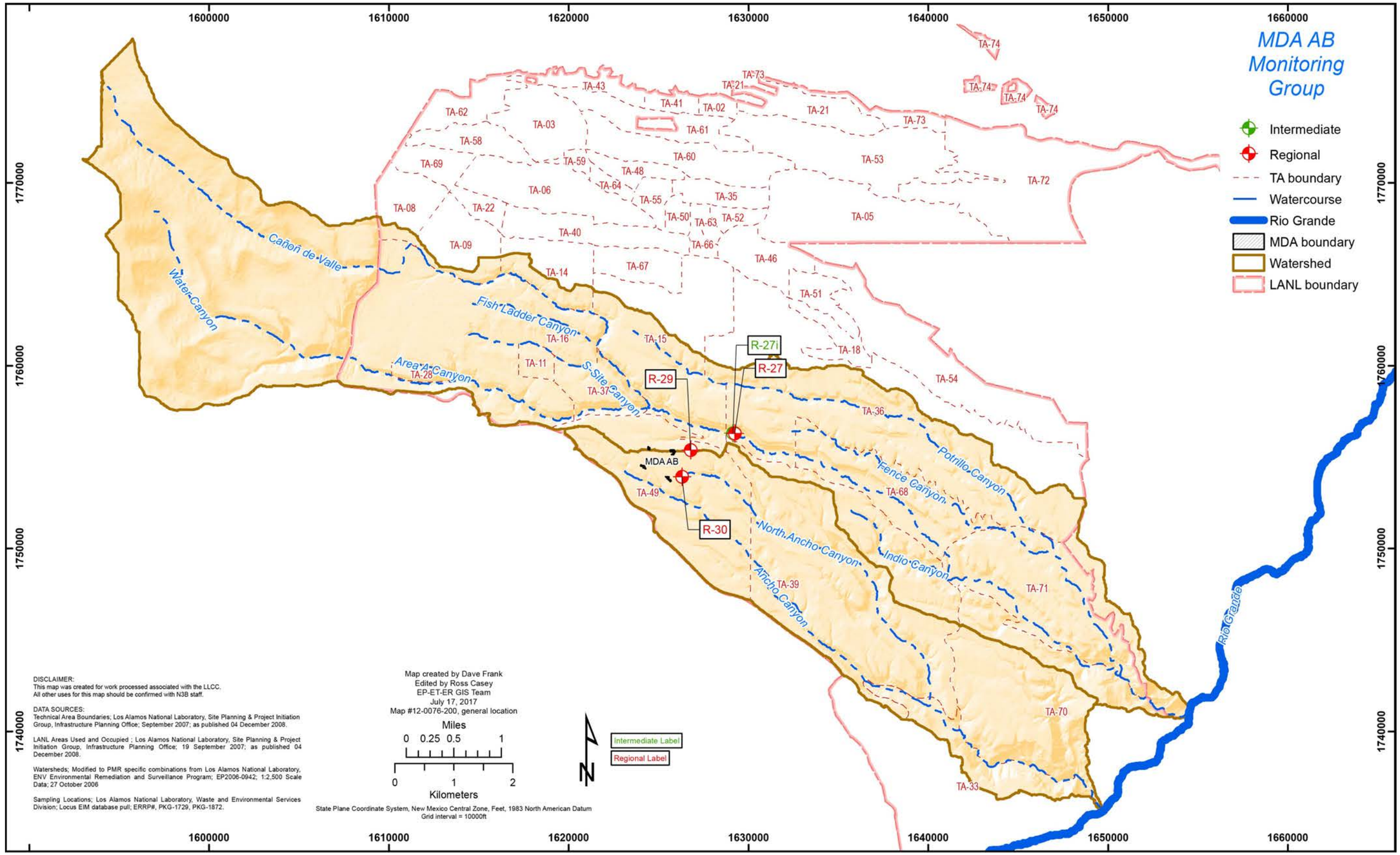


Figure 2.0-1 MDA AB monitoring group locations (see Table 2.0-1)

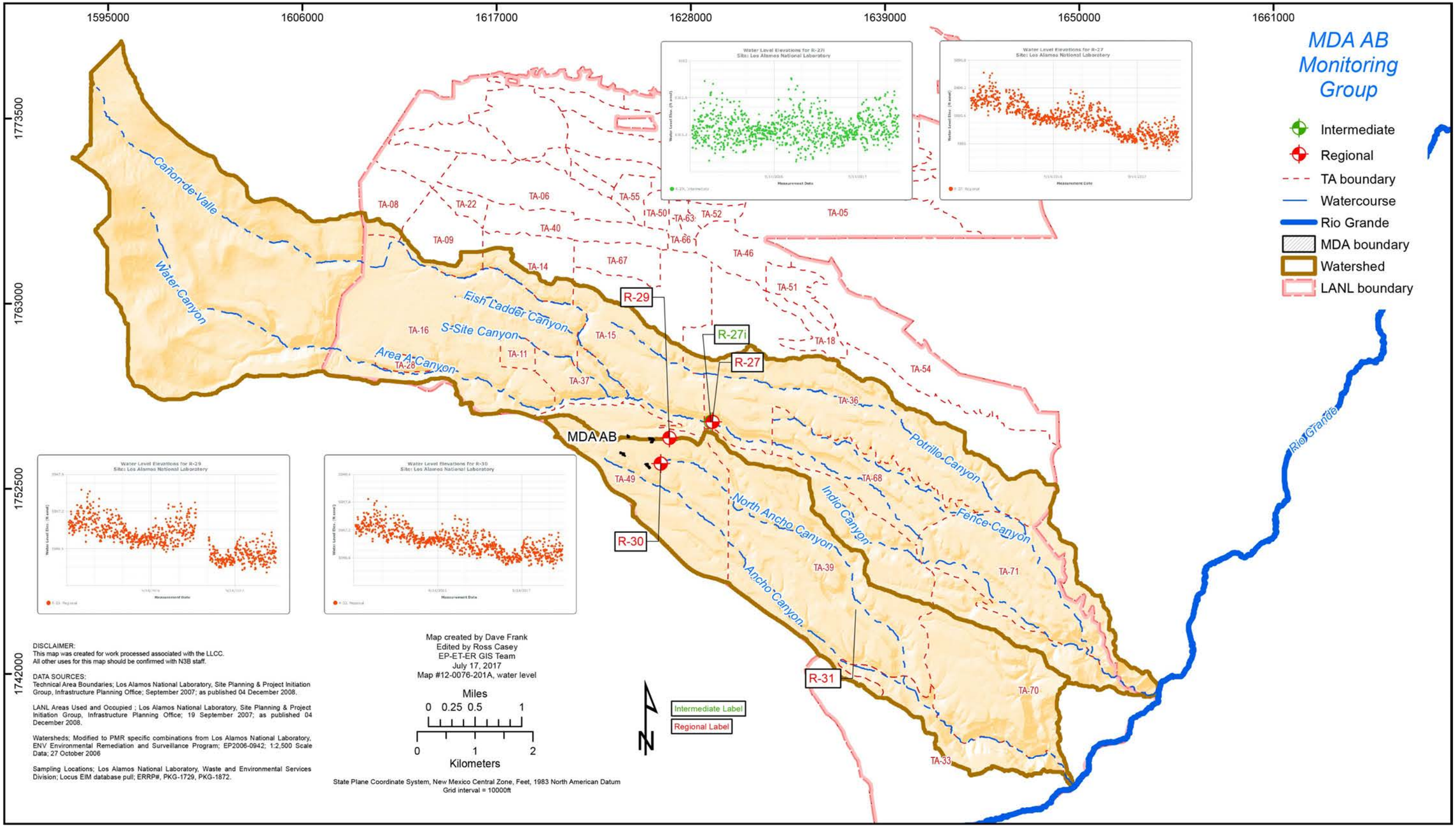


Figure 4.3-1 Groundwater elevations

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	2018	2	03/09/17	10	619	629	13.9	42.8	0.57
Regional										
R-29	Ancho	2017	4	09/22/17	10	1170	1180	39.1	185	7.69
R-30	Ancho			09/22/17	20.9	1140	1160.9	46.6	142	5.7
R-27	Water	2018	2	03/09/18	23	852	875	49.8	162	4.05
R-29	Ancho			03/06/18	10	1170	1180	38.8	202	7.5
R-30	Ancho			03/07/18	20.9	1140	1160.9	47.5	147	5.45

* gpm = Gallons per minute.

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

Standard Source	Standard Type	Groundwater	Surface Water
DOE Order 458.1	DOE BCG	n/a[a]	X[b]
DOE Order 458.1	DOE 100-mrem Public Dose DCS	X	n/a
DOE Order 458.1	DOE 4-mrem Drinking Water DCS	X	n/a
40 CFR[c] 141	EPA MCL	X	n/a
NMED Screening Levels[d]	Screening Levels for Tap Water	X	n/a
EPA Regional Screening Levels[e]	Screening Levels for Tap Water	X	n/a
20 NMAC 6.2.3103	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4.900.C	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4.900.F	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4.900.G	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Standards Acute	n/a	X[f, g]
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Standards Chronic	n/a	X[f, g]
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Human Health Standard	n/a	X

[a] n/a = Not applicable.

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

[c] CFR = Code of Federal Regulations.

[d] Reference: "Risk Assessment Guidance for Site Investigations and Remediation," New Mexico Environment Department, March 2017 (NMED 2017, 602273).

[e] Available at https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables.

[f] Hardness-based standards for total recoverable aluminum and dissolved chromium(III) conservatively compared with results for total aluminum and dissolved chromium, respectively.

[g] Standard for dissolved chromium(VI) conservatively compared with results for dissolved chromium.

Table 4.4-1
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 4.4-2
Target Analytes with MDLs above Screening Values

Analyte Name	MDL	Analytical Method	Screening Value	Unit	Screening-Value Type	Lab ID
Semivolatile Organic Compounds						
Atrazine	3–3.16	SW-846:8270D	3	µg/L	EPA MCL	GELC[a]
Azobenzene	3–3.16	SW-846:8270D	1.2	µg/L	EPA TAP SCRN LVL[b]	GELC
Benzidine	3.9–4.11	SW-846:8270D	0.00109	µg/L	NMED A1 TAP SCRN LVL[c]	GELC
Benzo(a)anthracene	0.3–0.316	SW-846:8270D	0.12	µg/L	NMED A1 TAP SCRN LVL	GELC
Benzo(a)pyrene	0.3–0.316	SW-846:8270D	0.2	µg/L	EPA MCL	GELC
Bis(2-chloroethyl)ether	3–3.16	SW-846:8270D	0.137	µg/L	NMED A1 TAP SCRN LVL	GELC
Dibenz(a,h)anthracene	0.3–0.316	SW-846:8270D	0.0343	µg/L	NMED A1 TAP SCRN LVL	GELC
Dichlorobenzidine[3,3'-]	3–3.16	SW-846:8270D	1.25	µg/L	NMED A1 TAP SCRN LVL	GELC
Dinitro-2-methylphenol[4,6-]	3–3.16	SW-846:8270D	1.52	µg/L	NMED A1 TAP SCRN LVL	GELC
Dinitrotoluene[2,4-]	3–3.16	SW-846:8270D	2.37	µg/L	NMED A1 TAP SCRN LVL	GELC
Dinitrotoluene[2,6-]	3–3.16	SW-846:8270D	0.485	µg/L	NMED A1 TAP SCRN LVL	GELC
Hexachlorobenzene	3–3.16	SW-846:8270D	1	µg/L	EPA MCL	GELC
Hexachlorobutadiene	3–3.16	SW-846:8270D	1.39	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitrobenzene	3–3.16	SW-846:8270D	1.4	µg/L	NMED A1 TAP SCRN LVL	GELC

Table 4.4-2 (continued)

Analyte Name	MDL	Analytical Method	Screening Value	Unit	Screening-Value Type	Lab ID
Nitroso-di-n-butylamine[N-]	3–3.16	SW-846:8270D	0.0273	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitroso-di-n-propylamine[N-]	3–3.16	SW-846:8270D	0.11	µg/L	EPA TAP SCRN LVL	GELC
Nitrosodiethylamine[N-]	3–3.16	SW-846:8270D	0.00167	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitrosodimethylamine[N-]	3–3.16	SW-846:8270D	0.00491	µg/L	NMED A1 TAP SCRN LVL	GELC
Nitrosopyrrolidine[N-]	3–3.16	SW-846:8270D	0.37	µg/L	NMED A1 TAP SCRN LVL	GELC
Pentachlorobenzene	3–3.16	SW-846:8270D	3.07	µg/L	NMED A1 TAP SCRN LVL	GELC
Pentachlorophenol	3–3.16	SW-846:8270D	1	µg/L	EPA MCL	GELC
Tetrachlorobenzene[1,2,4,5]	3–3.16	SW-846:8270D	1.66	µg/L	NMED A1 TAP SCRN LVL	GELC
Volatile Organic Compounds						
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] GELC = GEL Laboratories, LLC, Division of the GEL Group, Charleston, SC.

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

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

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	Depth(ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-27	852.0	3/9/18	WG[a]	Dissolved Oxygen	6.93	mg/L[b]	CAWA-18-151436
R-27	852.0	3/24/17	WG	Dissolved Oxygen	7.04	mg/L	CAWA-17-130485
R-27	852.0	3/18/16	WG	Dissolved Oxygen	7.19	mg/L	CAWA-16-110752
R-27	852.0	2/6/15	WG	Dissolved Oxygen	7.02	mg/L	CAWA-15-91341
R-27	852.0	3/7/14	WG	Dissolved Oxygen	7.03	mg/L	CAWA-14-54782
R-27	852.0	3/9/18	WG	Flow (in gpm[c])	4.05	gpm	CAWA-18-151436
R-27	852.0	03/24/17	WG	Flow (in gpm)	3.84	gpm	CAWA-17-130485
R-27	852.0	03/18/16	WG	Flow (in gpm)	3.41	gpm	CAWA-16-110752
R-27	852.0	02/06/15	WG	Flow (in gpm)	3.33	gpm	CAWA-15-91341
R-27	852.0	03/07/14	WG	Flow (in gpm)	3.75	gpm	CAWA-14-54782
R-27	852.0	3/9/18	WG	Oxidation-Reduction Potential	85.2	mV[d]	CAWA-18-151436
R-27	852.0	3/24/17	WG	Oxidation-Reduction Potential	58.2	mV	CAWA-17-130485
R-27	852.0	3/18/16	WG	Oxidation-Reduction Potential	186.3	mV	CAWA-16-110752
R-27	852.0	2/6/15	WG	Oxidation-Reduction Potential	64.6	mV	CAWA-15-91341
R-27	852.0	3/7/14	WG	Oxidation-Reduction Potential	102.1	mV	CAWA-14-54782
R-27	852.0	3/9/18	WG	pH	7.89	SU[e]	CAWA-18-151436
R-27	852.0	3/24/17	WG	pH	7.94	SU	CAWA-17-130485
R-27	852.0	3/18/16	WG	pH	7.77	SU	CAWA-16-110752
R-27	852.0	2/6/15	WG	pH	7.88	SU	CAWA-15-91341
R-27	852.0	3/7/14	WG	pH	7.87	SU	CAWA-14-54782
R-27	852.0	3/9/18	WG	Specific Conductance	118.7	µS/cm[f]	CAWA-18-151436
R-27	852.0	3/24/17	WG	Specific Conductance	119.2	µS/cm	CAWA-17-130485
R-27	852.0	3/18/16	WG	Specific Conductance	124	µS/cm	CAWA-16-110752
R-27	852.0	2/6/15	WG	Specific Conductance	120	µS/cm	CAWA-15-91341
R-27	852.0	3/7/14	WG	Specific Conductance	122	µS/cm	CAWA-14-54782

Location	Depth(ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-27	852.0	3/9/18	WG	Temperature	18.4	deg C[g]	CAWA-18-151436
R-27	852.0	3/24/17	WG	Temperature	18.3	deg C	CAWA-17-130485
R-27	852.0	3/18/16	WG	Temperature	17.69	deg C	CAWA-16-110752
R-27	852.0	2/6/15	WG	Temperature	18.39	deg C	CAWA-15-91341
R-27	852.0	3/7/14	WG	Temperature	18.44	deg C	CAWA-14-54782
R-27	852.0	3/9/18	WG	Turbidity	0.21	NTU[h]	CAWA-18-151436
R-27	852.0	3/24/17	WG	Turbidity	0.34	NTU	CAWA-17-130485
R-27	852.0	3/18/16	WG	Turbidity	0.39	NTU	CAWA-16-110752
R-27	852.0	2/6/15	WG	Turbidity	0.7	NTU	CAWA-15-91341
R-27	852.0	3/7/14	WG	Turbidity	0	NTU	CAWA-14-54782
R-27i	619.0	3/9/18	WG	Dissolved Oxygen	8.1	mg/L	CAWA-18-151438
R-27i	619.0	3/24/17	WG	Dissolved Oxygen	8.12	mg/L	CAWA-17-130486
R-27i	619.0	3/18/16	WG	Dissolved Oxygen	8.16	mg/L	CAWA-16-110753
R-27i	619.0	2/6/15	WG	Dissolved Oxygen	8.14	mg/L	CAWA-15-91342
R-27i	619.0	3/7/14	WG	Dissolved Oxygen	7.86	mg/L	CAWA-14-54783
R-27i	619.0	3/9/18	WG	Flow (in gpm)	0.57	gpm	CAWA-18-151438
R-27i	619.0	03/24/17	WG	Flow (in gpm)	0.52	gpm	CAWA-17-130486
R-27i	619.0	03/18/16	WG	Flow (in gpm)	0.57	gpm	CAWA-16-110753
R-27i	619.0	02/06/15	WG	Flow (in gpm)	0.65	gpm	CAWA-15-91342
R-27i	619.0	03/07/14	WG	Flow (in gpm)	0.6	gpm	CAWA-14-54783
R-27i	619.0	3/9/18	WG	Oxidation-Reduction Potential	166.9	mV	CAWA-18-151438
R-27i	619.0	3/24/17	WG	Oxidation-Reduction Potential	253.8	mV	CAWA-17-130486
R-27i	619.0	3/18/16	WG	Oxidation-Reduction Potential	293.9	mV	CAWA-16-110753
R-27i	619.0	2/6/15	WG	Oxidation-Reduction Potential	118.6	mV	CAWA-15-91342
R-27i	619.0	3/7/14	WG	Oxidation-Reduction Potential	170.6	mV	CAWA-14-54783

Location	Depth(ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-27i	619.0	3/9/18	WG	pH	7.01	SU	CAWA-18-151438
R-27i	619.0	3/24/17	WG	pH	6.96	SU	CAWA-17-130486
R-27i	619.0	3/18/16	WG	pH	6.68	SU	CAWA-16-110753
R-27i	619.0	2/6/15	WG	pH	6.88	SU	CAWA-15-91342
R-27i	619.0	3/7/14	WG	pH	6.99	SU	CAWA-14-54783
R-27i	619.0	3/9/18	WG	Specific Conductance	102	µS/cm	CAWA-18-151438
R-27i	619.0	3/24/17	WG	Specific Conductance	102.4	µS/cm	CAWA-17-130486
R-27i	619.0	3/18/16	WG	Specific Conductance	107	µS/cm	CAWA-16-110753
R-27i	619.0	2/6/15	WG	Specific Conductance	0.6	µS/cm	CAWA-15-91342
R-27i	619.0	3/7/14	WG	Specific Conductance	106	µS/cm	CAWA-14-54783
R-27i	619.0	3/9/18	WG	Temperature	13.8	deg C	CAWA-18-151438
R-27i	619.0	3/24/17	WG	Temperature	13.4	deg C	CAWA-17-130486
R-27i	619.0	3/18/16	WG	Temperature	13.97	deg C	CAWA-16-110753
R-27i	619.0	2/6/15	WG	Temperature	13.48	deg C	CAWA-15-91342
R-27i	619.0	3/7/14	WG	Temperature	13.19	deg C	CAWA-14-54783
R-27i	619.0	3/9/18	WG	Turbidity	0.29	NTU	CAWA-18-151438
R-27i	619.0	3/24/17	WG	Turbidity	0.6	NTU	CAWA-17-130486
R-27i	619.0	3/18/16	WG	Turbidity	0.56	NTU	CAWA-16-110753
R-27i	619.0	2/6/15	WG	Turbidity	1.2	NTU	CAWA-15-91342
R-27i	619.0	3/7/14	WG	Turbidity	0.3	NTU	CAWA-14-54783
R-29	1170.0	3/6/18	WG	Dissolved Oxygen	5.53	mg/L	CAAN-18-151443
R-29	1170.0	9/22/17	WG	Dissolved Oxygen	5.28	mg/L	CAAN-17-144828
R-29	1170.0	3/27/17	WG	Dissolved Oxygen	6.31	mg/L	CAAN-17-130479
R-29	1170.0	8/26/16	WG	Dissolved Oxygen	6.07	mg/L	CAAN-16-124887
R-29	1170.0	3/3/16	WG	Dissolved Oxygen	5.87	mg/L	CAAN-16-110571

Location	Depth(ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-29	1170.0	9/21/15	WG	Dissolved Oxygen	6.46	mg/L	CAAN-15-104031
R-29	1170.0	3/6/18	WG	Flow (in gpm)	7.5	gpm	CAAN-18-151443
R-29	1170.0	9/22/17	WG	Flow (in gpm)	7.69	gpm	CAAN-17-144828
R-29	1170.0	03/27/17	WG	Flow (in gpm)	7.32	gpm	CAAN-17-130479
R-29	1170.0	08/26/16	WG	Flow (in gpm)	6.81	gpm	CAAN-16-124887
R-29	1170.0	03/03/16	WG	Flow (in gpm)	7.69	gpm	CAAN-16-110571
R-29	1170.0	09/21/15	WG	Flow (in gpm)	7.14	gpm	CAAN-15-104031
R-29	1170.0	3/6/18	WG	Oxidation-Reduction Potential	160.8	mV	CAAN-18-151443
R-29	1170.0	9/22/17	WG	Oxidation-Reduction Potential	240.9	mV	CAAN-17-144828
R-29	1170.0	3/27/17	WG	Oxidation-Reduction Potential	67.1	mV	CAAN-17-130479
R-29	1170.0	8/26/16	WG	Oxidation-Reduction Potential	78.3	mV	CAAN-16-124887
R-29	1170.0	3/3/16	WG	Oxidation-Reduction Potential	135	mV	CAAN-16-110571
R-29	1170.0	9/21/15	WG	Oxidation-Reduction Potential	116.1	mV	CAAN-15-104031
R-29	1170.0	3/6/18	WG	pH	8	SU	CAAN-18-151443
R-29	1170.0	9/22/17	WG	pH	8.14	SU	CAAN-17-144828
R-29	1170.0	3/27/17	WG	pH	7.86	SU	CAAN-17-130479
R-29	1170.0	8/26/16	WG	pH	8.12	SU	CAAN-16-124887
R-29	1170.0	3/3/16	WG	pH	8.36	SU	CAAN-16-110571
R-29	1170.0	9/21/15	WG	pH	8	SU	CAAN-15-104031
R-29	1170.0	3/6/18	WG	Specific Conductance	120.5	µS/cm	CAAN-18-151443
R-29	1170.0	9/22/17	WG	Specific Conductance	120.4	µS/cm	CAAN-17-144828
R-29	1170.0	3/27/17	WG	Specific Conductance	121.4	µS/cm	CAAN-17-130479
R-29	1170.0	8/26/16	WG	Specific Conductance	122.7	µS/cm	CAAN-16-124887
R-29	1170.0	3/3/16	WG	Specific Conductance	125	µS/cm	CAAN-16-110571
R-29	1170.0	9/21/15	WG	Specific Conductance	126	µS/cm	CAAN-15-104031

Location	Depth(ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-29	1170.0	3/6/18	WG	Temperature	18.2	deg C	CAAN-18-151443
R-29	1170.0	9/22/17	WG	Temperature	19.5	deg C	CAAN-17-144828
R-29	1170.0	3/27/17	WG	Temperature	18.8	deg C	CAAN-17-130479
R-29	1170.0	8/26/16	WG	Temperature	19.4	deg C	CAAN-16-124887
R-29	1170.0	3/3/16	WG	Temperature	18.42	deg C	CAAN-16-110571
R-29	1170.0	9/21/15	WG	Temperature	20	deg C	CAAN-15-104031
R-29	1170.0	3/6/18	WG	Turbidity	8.71	NTU	CAAN-18-151443
R-29	1170.0	9/22/17	WG	Turbidity	6.31	NTU	CAAN-17-144828
R-29	1170.0	3/27/17	WG	Turbidity	7.74	NTU	CAAN-17-130479
R-29	1170.0	8/26/16	WG	Turbidity	7.74	NTU	CAAN-16-124887
R-29	1170.0	3/3/16	WG	Turbidity	7.31	NTU	CAAN-16-110571
R-29	1170.0	9/21/15	WG	Turbidity	6.9	NTU	CAAN-15-104031
R-30	1140.0	3/7/18	WG	Dissolved Oxygen	6.97	mg/L	CAAN-18-151446
R-30	1140.0	9/22/17	WG	Dissolved Oxygen	7.00	mg/L	CAAN-17-144829
R-30	1140.0	3/27/17	WG	Dissolved Oxygen	6.92	mg/L	CAAN-17-130480
R-30	1140.0	8/26/16	WG	Dissolved Oxygen	6.82	mg/L	CAAN-16-124883
R-30	1140.0	3/4/16	WG	Dissolved Oxygen	6.88	mg/L	CAAN-16-110572
R-30	1140.0	9/22/15	WG	Dissolved Oxygen	7.21	mg/L	CAAN-15-104032
R-30	1140.0	3/7/18	WG	Flow (in gpm)	5.45	gpm	CAAN-18-151446
R-30	1140.0	9/22/17	WG	Flow (in gpm)	5.7	gpm	CAAN-17-144829
R-30	1140.0	03/27/17	WG	Flow (in gpm)	5.38	gpm	CAAN-17-130480
R-30	1140.0	08/26/16	WG	Flow (in gpm)	5.45	gpm	CAAN-16-124883
R-30	1140.0	03/04/16	WG	Flow (in gpm)	5.77	gpm	CAAN-16-110572
R-30	1140.0	09/22/15	WG	Flow (in gpm)	5.6	gpm	CAAN-15-104032
R-30	1140.0	3/7/18	WG	Oxidation-Reduction Potential	171.3	mV	CAAN-18-151446

Location	Depth(ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-30	1140.0	9/22/17	WG	Oxidation-Reduction Potential	292.3	mV	CAAN-17-144829
R-30	1140.0	3/27/17	WG	Oxidation-Reduction Potential	205.3	mV	CAAN-17-130480
R-30	1140.0	8/26/16	WG	Oxidation-Reduction Potential	168.37	mV	CAAN-16-124883
R-30	1140.0	3/4/16	WG	Oxidation-Reduction Potential	197.5	mV	CAAN-16-110572
R-30	1140.0	9/22/15	WG	Oxidation-Reduction Potential	162.7	mV	CAAN-15-104032
R-30	1140.0	3/7/18	WG	pH	8.08	SU	CAAN-18-151446
R-30	1140.0	9/22/17	WG	pH	8.11	SU	CAAN-17-144829
R-30	1140.0	3/27/17	WG	pH	7.89	SU	CAAN-17-130480
R-30	1140.0	8/26/16	WG	pH	8.18	SU	CAAN-16-124883
R-30	1140.0	3/4/16	WG	pH	7.9	SU	CAAN-16-110572
R-30	1140.0	9/22/15	WG	pH	7.93	SU	CAAN-15-104032
R-30	1140.0	3/7/18	WG	Specific Conductance	118	µS/cm	CAAN-18-151446
R-30	1140.0	9/22/17	WG	Specific Conductance	118.8	µS/cm	CAAN-17-144829
R-30	1140.0	3/27/17	WG	Specific Conductance	119.1	µS/cm	CAAN-17-130480
R-30	1140.0	8/26/16	WG	Specific Conductance	119.8	µS/cm	CAAN-16-124883
R-30	1140.0	3/4/16	WG	Specific Conductance	124	µS/cm	CAAN-16-110572
R-30	1140.0	9/22/15	WG	Specific Conductance	122	µS/cm	CAAN-15-104032
R-30	1140.0	3/7/18	WG	Temperature	19.6	deg C	CAAN-18-151446
R-30	1140.0	9/22/17	WG	Temperature	20.2	deg C	CAAN-17-144829
R-30	1140.0	3/27/17	WG	Temperature	19.7	deg C	CAAN-17-130480
R-30	1140.0	8/26/16	WG	Temperature	20	deg C	CAAN-16-124883
R-30	1140.0	3/4/16	WG	Temperature	19.72	deg C	CAAN-16-110572
R-30	1140.0	9/22/15	WG	Temperature	20.19	deg C	CAAN-15-104032
R-30	1140.0	3/7/18	WG	Turbidity	0.32	NTU	CAAN-18-151446
R-30	1140.0	9/22/17	WG	Turbidity	0.28	NTU	CAAN-17-144829

Location	Depth(ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-30	1140.0	3/27/17	WG	Turbidity	0.65	NTU	CAAN-17-130480
R-30	1140.0	8/26/16	WG	Turbidity	0.5	NTU	CAAN-16-124883
R-30	1140.0	3/4/16	WG	Turbidity	1	NTU	CAAN-16-110572
R-30	1140.0	9/22/15	WG	Turbidity	3	NTU	CAAN-15-104032

[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 that may be used in Appendix C. Please note that these are comprehensive lists, and this periodic monitoring report may not include all of the terms in the lists.

Acronyms and Abbreviations

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

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

Analytical Laboratory Qualifier Codes

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

Analytical Laboratory Qualifier Codes (continued)

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

Analytical Laboratory Qualifier Codes (continued)

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

Secondary Validation Flag Codes

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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
13234886	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
12774799	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
12321314	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
11886111	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
11421215	R-27	852.0	03/07/2014	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	2014-2960	CAWA-14-54784	GELC
13234906	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
12774797	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
12321312	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
11886109	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
11421213	R-27	852.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	47.6			0.725	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234935	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
12774824	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
12321489	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
11886257	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
11421313	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00643	0.0526		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234825	R-27	852.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	27.8			1	ug/L	Y		NQ	2018-2134	CAWA-18-151436	GELC
12774732	R-27	852.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.1			1	ug/L	Y		NQ	2017-1265	CAWA-17-130483	GELC
12321064	R-27	852.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.9			1	ug/L	Y		NQ	2016-929	CAWA-16-110783	GELC
11885827	R-27	852.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.7			1	ug/L	Y		NQ	2015-772	CAWA-15-91368	GELC
11421146	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.1			1	ug/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234998	R-27	852.0	03/09/2018	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	Y	16.4			6.25	ug/L	Y	J	J	2018-2134	CAWA-18-151437	GELC
12774573	R-27	852.0	03/24/2017	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	20.6			6.19	ug/L	Y	U	U	2017-1265	CAWA-17-130485	GELC
12322052	R-27	852.0	03/18/2016	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	10.3			3.09	ug/L	Y	U	UJ	2016-929	CAWA-16-110752	GELC
11886378	R-27	852.0	02/06/2015	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	20.6			6.19	ug/L	Y	U	U	2015-772	CAWA-15-91341	GELC
11421372	R-27	852.0	03/07/2014	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	20			6	ug/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234828	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
12774736	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
12321068	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
11885831	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
11421150	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.71			0.05	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234924	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
12774826	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
12321491	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
11886259	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
11421315	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.266	1.66	5.08		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234898	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
12774798	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
12321313	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
11886110	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
11421214	R-27	852.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.62			0.067	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234923	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
12774827	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
12321492	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
11886260	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
11421316	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.699	1.26	5.04		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234899	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
12774792	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
12321307	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
11886104	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
11421208	R-27	852.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.185			0.033	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234919	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
12774823	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
12321488	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
11886256	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
11421312	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.949	0.521	2.51		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234920	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12774825	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
12321490	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
11886258	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
11421314	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-1.04	0.553	1.9		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234837	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
12774758	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
12321090	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
11885853	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
11421172	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.9			0.453	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234832	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
12774742	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
12321074	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
11885837	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
11421156	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.83			0.11	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234847	R-27	852.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02			0.2	ug/L	Y		NQ	2018-2134	CAWA-18-151436	GELC
12774745	R-27	852.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13			0.2	ug/L	Y		NQ	2017-1265	CAWA-17-130483	GELC
12321077	R-27	852.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02			0.165	ug/L	Y		NQ	2016-929	CAWA-16-110783	GELC
11885840	R-27	852.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.03			0.165	ug/L	Y		NQ	2015-772	CAWA-15-91368	GELC
11421159	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.922			0.165	ug/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234927	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
12774828	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
12321493	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
11886261	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
11421317	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.66	2.84	9.51		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234915	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
12774794	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
12321309	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
11886106	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
11421210	R-27	852.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.392			0.017	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234944	R-27	852.0	03/09/2018	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.214			0.05	ug/L	Y		NQ	2018-2134	CAWA-18-151436	GELC
12774821	R-27	852.0	03/24/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.211			0.05	ug/L	Y		NQ	2017-1265	CAWA-17-130483	GELC
12321470	R-27	852.0	03/18/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.208			0.05	ug/L	Y		NQ	2016-929	CAWA-16-110783	GELC
11885705	R-27	852.0	02/06/2015	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.197			0.05	ug/L	Y	J	J	2015-772	CAWA-15-91368	GELC
11421274	R-27	852.0	03/07/2014	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.203			0.05	ug/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234937	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
12774829	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
12321494	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
11886262	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
11421318	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00601	0.00601	0.0387		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234938	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
12774830	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
12321495	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
11886263	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
11421319	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00601	0.0085	0.0882		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234838	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
12774747	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
12321079	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
11885842	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
11421161	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.38			0.05	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234925	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
12774831	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
12321496	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
11886264	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
11421320	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-26.8	14.5	53.7		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234841	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
12774749	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12321081	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
11885844	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
11421163	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	64.1			0.053	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234840	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
12774751	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
12321083	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
11885846	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
11421165	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1			0.1	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234926	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
12774832	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
12321497	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
11886265	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
11421321	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.295	1.41	5.22		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234884	R-27	852.0	03/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120			1	uS/cm	Y		NQ	2018-2134	CAWA-18-151436	GELC
12774801	R-27	852.0	03/24/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123			1	uS/cm	Y		NQ	2017-1265	CAWA-17-130483	GELC
12321316	R-27	852.0	03/18/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126			3.63	uS/cm	Y		NQ	2016-929	CAWA-16-110783	GELC
11886113	R-27	852.0	02/06/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	111			3.63	uS/cm	Y		NQ	2015-772	CAWA-15-91368	GELC
11421217	R-27	852.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117			1	uS/cm	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234843	R-27	852.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48.2			1	ug/L	Y		NQ	2018-2134	CAWA-18-151436	GELC
12774752	R-27	852.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48.2			1	ug/L	Y		NQ	2017-1265	CAWA-17-130483	GELC
12321084	R-27	852.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.3			1	ug/L	Y		NQ	2016-929	CAWA-16-110783	GELC
11885847	R-27	852.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.7			1	ug/L	Y		NQ	2015-772	CAWA-15-91368	GELC
11421166	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.6			1	ug/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234933	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
12774833	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
12321498	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
11886266	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
11421322	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.175	0.126	0.485		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234900	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
12774800	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
12321315	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
11886112	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
11421216	R-27	852.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.41			0.133	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234890	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
13234891	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
13234888	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
12774802	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
12321317	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
11886114	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
11421218	R-27	852.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136			3.4	mg/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234946	R-27	852.0	03/09/2018	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.967			0.33	mg/L	Y	J	J	2018-2134	CAWA-18-151437	GELC
12774805	R-27	852.0	03/24/2017	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.524			0.33	mg/L	Y	J	J	2017-1265	CAWA-17-130485	GELC
12321305	R-27	852.0	03/18/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.446			0.33	mg/L	Y	J	J	2016-929	CAWA-16-110752	GELC
11886102	R-27	852.0	02/06/2015	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.87			0.33	mg/L	Y	J	J	2015-772	CAWA-15-91341	GELC
11421206	R-27	852.0	03/07/2014	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.557			0.33	mg/L	Y	J	J	2014-2960	CAWA-14-54782	GELC
13267778	R-27	852.0	03/09/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.263	0.729	2.49		pCi/L	Y	U	U	2018-2173	CAWA-18-151437	ARSL
12838149	R-27	852.0	03/24/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	0.707	0.69	2.267		pCi/L	Y	U	U	2017-1286	CAWA-17-130485	ARSL
12340454	R-27	852.0	03/18/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.143	0.658	2.247		pCi/L	Y	U	U	2016-946	CAWA-16-110752	ARSL
11890336	R-27	852.0	02/06/2015	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	2.087	0.746	2.157		pCi/L	Y	U	U	2015-789	CAWA-15-91341	ARSL
11423939	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	1.038	0.646	2.061		pCi/L	Y	U	U	2014-2979	CAWA-14-54782	ARSL
13234851	R-27	852.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.514			0.067	ug/L	Y		NQ	2018-2134	CAWA-18-151436	GELC
12774755	R-27	852.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.553			0.067	ug/L	Y		NQ	2017-1265	CAWA-17-130483	GELC
12321087	R-27	852.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.623			0.067	ug/L	Y		NQ	2016-929	CAWA-16-110783	GELC
11885850	R-27	852.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.511			0.067	ug/L	Y		NQ	2015-772	CAWA-15-91368	GELC
11421169	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.501			0.067	ug/L	Y		NQ	2014-2960	CAWA-14-54784	GELC
13234941	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12774834	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
12321499	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
11886267	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
11421323	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.301	0.0302	0.0438		pCi/L	Y		NQ	2014-2960	CAWA-14-54782	GELC
13234942	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
12774835	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
12321500	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
11886268	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
11421324	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00654	0.0103	0.0418		pCi/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
13234943	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
12774836	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
12321501	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
11886269	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
11421325	R-27	852.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.182	0.0244	0.0409		pCi/L	Y		NQ	2014-2960	CAWA-14-54782	GELC
13234844	R-27	852.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.55			1	ug/L	Y		NQ	2018-2134	CAWA-18-151436	GELC
12774756	R-27	852.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.55			1	ug/L	Y	J	J	2017-1265	CAWA-17-130483	GELC
12321088	R-27	852.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.88			1	ug/L	Y		NQ	2016-929	CAWA-16-110783	GELC
11885851	R-27	852.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.39			1	ug/L	Y		NQ	2015-772	CAWA-15-91368	GELC
11421170	R-27	852.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.83			1	ug/L	Y	J	J	2014-2960	CAWA-14-54784	GELC
13234887	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
12774814	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
12321344	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
11886126	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
11421230	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.56			0.01	SU	Y	H	NQ	2014-2960	CAWA-14-54785	GELC
13234908	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
12774812	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
12321342	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
11886124	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
11421228	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	125			0.725	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234936	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
12774838	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
12321517	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
11886271	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
11421327	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00248	0.00656	0.0496		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234858	R-27i	619.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	9.52			1	ug/L	Y		NQ	2018-2134	CAWA-18-151438	GELC
12774763	R-27i	619.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	8.97			1	ug/L	Y		NQ	2017-1265	CAWA-17-130484	GELC
12321126	R-27i	619.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	9.43			1	ug/L	Y		NQ	2016-929	CAWA-16-110784	GELC
11885858	R-27i	619.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	9.35			1	ug/L	Y		NQ	2015-772	CAWA-15-91369	GELC
11421177	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.27			1	ug/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234860	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
12774767	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
12321130	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
11885862	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
11421181	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.11			0.05	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234929	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
12774840	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
12321519	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
11886273	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
11421329	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.87	1.77	5.42		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234902	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
12774813	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
12321343	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
11886125	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
11421229	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.34			0.067	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234928	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
12774841	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12321520	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
11886274	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
11421330	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.36	1.42	5.08		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234903	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
12774807	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
12321337	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
11886119	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
11421223	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.149			0.033	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234921	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
12774837	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
12321516	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
11886270	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
11421326	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.658	0.643	2.9		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234922	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
12774839	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
12321518	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
11886272	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
11421328	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.633	0.36	1.16		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234855	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
12774789	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
12321152	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
11885884	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
11421203	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	29.7			0.453	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234865	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
12774773	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
12321136	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
11885868	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
11421187	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.29			0.11	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234877	R-27i	619.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.52			0.2	ug/L	Y		NQ	2018-2134	CAWA-18-151438	GELC
12774776	R-27i	619.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.63			0.2	ug/L	Y		NQ	2017-1265	CAWA-17-130484	GELC
12321139	R-27i	619.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.49			0.165	ug/L	Y		NQ	2016-929	CAWA-16-110784	GELC
11885871	R-27i	619.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54			0.165	ug/L	Y		NQ	2015-772	CAWA-15-91369	GELC
11421190	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.59			0.165	ug/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234932	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
12774842	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
12321521	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
11886275	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
11421331	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.1	3.04	10.1		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234916	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
12774809	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
12321339	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
11886121	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
11421225	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.11			0.017	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234945	R-27i	619.0	03/09/2018	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.117			0.05	ug/L	Y	J	J	2018-2134	CAWA-18-151438	GELC
12774822	R-27i	619.0	03/24/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.12			0.05	ug/L	Y	J	J	2017-1265	CAWA-17-130484	GELC
12321472	R-27i	619.0	03/18/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.124			0.05	ug/L	Y	J	J	2016-929	CAWA-16-110784	GELC
11885706	R-27i	619.0	02/06/2015	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.112			0.05	ug/L	Y	J	J	2015-772	CAWA-15-91369	GELC
11421275	R-27i	619.0	03/07/2014	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.117			0.05	ug/L	Y	J	J	2014-2960	CAWA-14-54785	GELC
13234939	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
12774843	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
12321522	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
11886276	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
11421332	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00565	0.00692	0.0364		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234940	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
12774844	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
12321523	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
11886277	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
11421333	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00848	0.0185	0.083		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234864	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
12774778	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
12321141	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
11885873	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
11421192	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.784			0.05	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234930	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
12774845	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
12321524	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
11886278	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
11421334	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	50	23.2	55.6		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234868	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
12774780	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
12321143	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
11885875	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
11421194	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63.9			0.053	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234867	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
12774782	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
12321145	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
11885877	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
11421196	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.89			0.1	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234931	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
12774846	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
12321525	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
11886279	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
11421335	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.297	1.62	6.05		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234885	R-27i	619.0	03/09/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	104			1	uS/cm	Y		NQ	2018-2134	CAWA-18-151438	GELC
12774816	R-27i	619.0	03/24/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	108			1	uS/cm	Y		NQ	2017-1265	CAWA-17-130484	GELC
12321346	R-27i	619.0	03/18/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	111			3.63	uS/cm	Y		NQ	2016-929	CAWA-16-110784	GELC
11886128	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	uS/cm	Y		NQ	2015-772	CAWA-15-91369	GELC
11421232	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	103			1	uS/cm	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234870	R-27i	619.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	44.9			1	ug/L	Y		NQ	2018-2134	CAWA-18-151438	GELC
12774783	R-27i	619.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.5			1	ug/L	Y		NQ	2017-1265	CAWA-17-130484	GELC
12321146	R-27i	619.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46.6			1	ug/L	Y		NQ	2016-929	CAWA-16-110784	GELC
11885878	R-27i	619.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46.8			1	ug/L	Y		NQ	2015-772	CAWA-15-91369	GELC
11421197	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.7			1	ug/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234934	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
12774847	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
12321526	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
11886280	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
11421336	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.252	0.0884	0.438		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234904	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
12774815	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
12321345	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
11886127	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
11421231	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.96			0.133	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13234892	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
13234893	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
13234889	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
12774817	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
12321347	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
11886129	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
11421233	R-27i	619.0	03/07/2014	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	103			3.4	mg/L	Y		NQ	2014-2960	CAWA-14-54785	GELC
13267779	R-27i	619.0	03/09/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.587	0.711	2.435		pCi/L	Y	U	U	2018-2173	CAWA-18-151439	ARSL
12838150	R-27i	619.0	03/24/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.444	0.796	2.717		pCi/L	Y	U	U	2017-1286	CAWA-17-130486	ARSL

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12340456	R-27i	619.0	03/18/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.16	0.646	2.207		pCi/L	Y	U	U	2016-946	CAWA-16-110753	ARSL
11890337	R-27i	619.0	02/06/2015	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	0.833	0.666	2.17		pCi/L	Y	U	U	2015-789	CAWA-15-91342	ARSL
11423940	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.594	0.66	2.262		pCi/L	Y	U	U	2014-2979	CAWA-14-54783	ARSL
13234883	R-27i	619.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.248			0.067	ug/L	Y		NQ	2018-2134	CAWA-18-151438	GELC
12774786	R-27i	619.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.259			0.067	ug/L	Y		NQ	2017-1265	CAWA-17-130484	GELC
12321149	R-27i	619.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.294			0.067	ug/L	Y		NQ	2016-929	CAWA-16-110784	GELC
11885881	R-27i	619.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.249			0.067	ug/L	Y		NQ	2015-772	CAWA-15-91369	GELC
11421200	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.25			0.067	ug/L	Y		U	2014-2960	CAWA-14-54785	GELC
13234948	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
12774848	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
12321527	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
11886281	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
11421337	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.214	0.0262	0.048		pCi/L	Y		NQ	2014-2960	CAWA-14-54783	GELC
13234949	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
12774849	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
12321528	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
11886282	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
11421338	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0179	0.0107	0.0458		pCi/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
13234950	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
12774850	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
12321529	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
11886283	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
11421339	R-27i	619.0	03/07/2014	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.104	0.0183	0.0449		pCi/L	Y		NQ	2014-2960	CAWA-14-54783	GELC
13234871	R-27i	619.0	03/09/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.5			1	ug/L	Y	J	J	2018-2134	CAWA-18-151438	GELC
12774787	R-27i	619.0	03/24/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5			1	ug/L	Y	U	U	2017-1265	CAWA-17-130484	GELC
12321150	R-27i	619.0	03/18/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.9			1	ug/L	Y	J	J	2016-929	CAWA-16-110784	GELC
11885882	R-27i	619.0	02/06/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.62			1	ug/L	Y	J	J	2015-772	CAWA-15-91369	GELC
11421201	R-27i	619.0	03/07/2014	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5			1	ug/L	Y	U	U	2014-2960	CAWA-14-54785	GELC
13230977	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
13005020	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
12777099	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
12544569	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
12315410	R-29	1170.0	03/03/2016	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	2016-856	CAAN-16-110575	GELC
12122357	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.84			0.01	SU	Y	H	NQ	2015-2362	CAAN-15-104033	GELC
13230995	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
13005028	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
12777118	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
12544589	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
12315408	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.8			0.725	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122355	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.3			0.725	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231055	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
13004977	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
12777149	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
12544632	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
12315623	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00765	0.00605	0.0343		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122419	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00000000102	0.00575	0.0327		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13231000	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
13005030	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
12777126	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
12544596	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
12315404	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0981			0.017	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122351	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.449			0.017	mg/L	Y		J	2015-2362	CAAN-15-104033	GELC
13230916	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	15.2			1	ug/L	Y		NQ	2018-2089	CAAN-18-151443	GELC
13004995	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	15.1			1	ug/L	Y		NQ	2017-2889	CAAN-17-144826	GELC
12776849	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	15.5			1	ug/L	Y		NQ	2017-1277	CAAN-17-130477	GELC
12544313	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16			1	ug/L	Y		NQ	2016-2218	CAAN-16-124889	GELC

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12315280	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	17			1	ug/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122288	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	17.3			1	ug/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13230919	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
13004997	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
12776858	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
12544318	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
12315284	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.2			0.05	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122292	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.6			0.05	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231044	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
13004974	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
12777143	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
12544619	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
12315607	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.34	1.32	5.44		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122421	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.24	1.45	4.83		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230987	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
13005024	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
12777106	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
12544579	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
12315409	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.68			0.067	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122356	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.81			0.067	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13230920	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.81			1	ug/L	Y	J	J	2018-2089	CAAN-18-151443	GELC
13004998	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.16			1	ug/L	Y	J	J	2017-2889	CAAN-17-144826	GELC
12776859	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5			1	ug/L	Y	U	U	2017-1277	CAAN-17-130477	GELC
12544319	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.47			1	ug/L	Y	J	J	2016-2218	CAAN-16-124889	GELC
12315286	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.98			1	ug/L	Y	J	J	2016-856	CAAN-16-110575	GELC
12122294	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5			1	ug/L	Y	U	U	2015-2362	CAAN-15-104033	GELC
13231043	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
13004973	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
12777142	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
12544618	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
12315606	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.376	1.12	4.62		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122422	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.51	1.27	5.17		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230988	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
13005025	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
12777107	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
12544580	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
12315403	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.129			0.033	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122350	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.189			0.033	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231039	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
13004971	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
12777138	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
12544609	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
12315592	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0535	0.653	2.81		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122418	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.911	0.616	2.96		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13231040	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
13004972	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
12777139	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
12544610	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
12315593	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.132	0.532	1.78		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122420	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.671	0.874	2.95		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230928	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
13005034	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
12776875	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
12544343	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
12315306	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41			0.453	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122314	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.8			0.453	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
13230923	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
13005002	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
12776863	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
12544327	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
12315290	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.16			0.11	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122298	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3			0.11	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13230930	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	4			2	ug/L	Y	J	J	2018-2089	CAAN-18-151443	GELC
13005003	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	4.38			2	ug/L	Y	J	J	2017-2889	CAAN-17-144826	GELC
12776864	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	5.84			2	ug/L	Y	J	J	2017-1277	CAAN-17-130477	GELC
12544328	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	5.78			2	ug/L	Y	J	J	2016-2218	CAAN-16-124889	GELC
12315291	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	6.94			2	ug/L	Y	J	J	2016-856	CAAN-16-110575	GELC
12122299	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	8.11			2	ug/L	Y	J	J	2015-2362	CAAN-15-104033	GELC
13230938	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.35			0.2	ug/L	Y		NQ	2018-2089	CAAN-18-151443	GELC
13005012	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.15			0.2	ug/L	Y		NQ	2017-2889	CAAN-17-144826	GELC
12776868	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42			0.3	ug/L	Y		NQ	2017-1277	CAAN-17-130477	GELC
12544336	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.3			0.3	ug/L	Y		NQ	2016-2218	CAAN-16-124889	GELC
12315293	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46			0.165	ug/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122301	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.44			0.165	ug/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231047	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
13004976	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
12777146	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
12544622	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
12315610	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.85	2.59	8.47		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122423	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.22	2.55	9.06		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230939	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.697			0.6	ug/L	Y	J	J	2018-2089	CAAN-18-151443	GELC
13005013	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	0.6			0.6	ug/L	Y	U	U	2017-2889	CAAN-17-144826	GELC
12776869	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	0.902			0.5	ug/L	Y	J	U	2017-1277	CAAN-17-130477	GELC
12544337	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2			0.5	ug/L	Y	U	U	2016-2218	CAAN-16-124889	GELC
12315294	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2			0.5	ug/L	Y	U	U	2016-856	CAAN-16-110575	GELC
13231004	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
13005032	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
12777132	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
12544602	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
12315405	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.317			0.017	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122352	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.287			0.017	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231067	R-29	1170.0	03/06/2018	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.23			0.05	ug/L	Y		NQ	2018-2089	CAAN-18-151443	GELC
13004980	R-29	1170.0	09/22/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.245			0.05	ug/L	Y		NQ	2017-2889	CAAN-17-144826	GELC
12777156	R-29	1170.0	03/27/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.243			0.05	ug/L	Y		NQ	2017-1277	CAAN-17-130477	GELC
12544650	R-29	1170.0	08/26/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.234			0.05	ug/L	Y		NQ	2016-2218	CAAN-16-124889	GELC
12315647	R-29	1170.0	03/03/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.227			0.05	ug/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122416	R-29	1170.0	09/21/2015	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.225			0.05	ug/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231057	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
13004978	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
12777151	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
12544636	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
12315629	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00607	0.00729	0.032		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122424	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00113	0.00528	0.0269		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13231058	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
13004979	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
12777152	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
12544637	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
12315630	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00572	0.0294		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122425	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00675	0.00606	0.024		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230929	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
13005001	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
12776862	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12544326	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
12315295	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.34			0.05	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122303	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.16			0.05	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231045	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
13004975	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
12777144	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
12544620	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
12315608	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-3.41	17.6	68.8		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122426	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.48	16.7	56.8		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230932	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
13005005	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
12776865	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
12544330	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
12315297	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68			0.053	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122305	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.4			0.053	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13230931	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
13005004	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
12776876	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
12544329	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
12315299	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.6			0.1	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122307	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.4			0.1	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231046	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
13004988	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
12777145	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
12544621	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
12315609	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.26	1.05	4.72		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122427	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.252	1.3	4.82		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230975	R-29	1170.0	03/06/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122			1	uS/cm	Y		NQ	2018-2089	CAAN-18-151443	GELC
13005019	R-29	1170.0	09/22/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	131			1	uS/cm	Y		NQ	2017-2889	CAAN-17-144826	GELC
12777096	R-29	1170.0	03/27/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123			1	uS/cm	Y		NQ	2017-1277	CAAN-17-130477	GELC
12544566	R-29	1170.0	08/26/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	108			3.63	uS/cm	Y		NQ	2016-2218	CAAN-16-124889	GELC
12315412	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129			3.63	uS/cm	Y		NQ	2016-856	CAAN-16-110575	GELC
12122359	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	104			1	uS/cm	Y		NQ	2015-2362	CAAN-15-104033	GELC
13230934	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57.4			1	ug/L	Y		NQ	2018-2089	CAAN-18-151443	GELC
13005007	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	58.4			1	ug/L	Y		NQ	2017-2889	CAAN-17-144826	GELC
12776878	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	58.7			1	ug/L	Y		NQ	2017-1277	CAAN-17-130477	GELC
12544332	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57.6			1	ug/L	Y		NQ	2016-2218	CAAN-16-124889	GELC
12315300	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	63.7			1	ug/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122308	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.4			1	ug/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231053	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
13004989	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
12777148	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
12544629	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
12315618	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.324	0.149	0.477		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122428	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0734	0.097	0.403		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13230989	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
13005026	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
12777108	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
12544581	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
12315411	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.44			0.133	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122358	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.61			0.133	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13230981	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
13230982	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
13005212	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
13005211	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
13230979	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
13005021	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
12777102	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
12544572	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
12315413	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124			3.4	mg/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122360	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129			3.4	mg/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231006	R-29	1170.0	03/06/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0486			0.02	mg/L	Y	J	J	2018-2089	CAAN-18-151443	GELC
13005033	R-29	1170.0	09/22/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.513			0.02	mg/L	Y		J+	2017-2889	CAAN-17-144826	GELC
12777135	R-29	1170.0	03/27/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0432			0.02	mg/L	Y	J	J	2017-1277	CAAN-17-130477	GELC
12544605	R-29	1170.0	08/26/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05			0.02	mg/L	Y	U	U	2016-2218	CAAN-16-124889	GELC
12315406	R-29	1170.0	03/03/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05			0.017	mg/L	Y	U	U	2016-856	CAAN-16-110575	GELC
12122353	R-29	1170.0	09/21/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0448			0.017	mg/L	Y	J	J	2015-2362	CAAN-15-104033	GELC
13264849	R-29	1170.0	03/06/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.827	0.794	2.717		pCi/L	Y	U	U	2018-2112	CAAN-18-151444	ARSL
13048103	R-29	1170.0	09/22/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	0.213	0.812	2.739		pCi/L	Y	U	U	2017-2937	CAAN-17-144828	ARSL
12838151	R-29	1170.0	03/27/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-1.839	0.982	3.313		pCi/L	Y	U	U	2017-1286	CAAN-17-130479	ARSL
12573346	R-29	1170.0	08/26/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-1.433	0.764	2.602		pCi/L	Y	U	U	2016-2325	CAAN-16-124887	ARSL
12310833	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	0.275	0.584	1.964		pCi/L	Y	U	U	2016-846	CAAN-16-110571	ARSL
12131258	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-1.568	0.743	2.499		pCi/L	Y	U	U	2015-2371	CAAN-15-104031	ARSL
13230942	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.387			0.067	ug/L	Y		NQ	2018-2089	CAAN-18-151443	GELC
13005018	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.404			0.067	ug/L	Y		NQ	2017-2889	CAAN-17-144826	GELC
12776895	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.401			0.067	ug/L	Y		NQ	2017-1277	CAAN-17-130477	GELC
12544340	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.422			0.067	ug/L	Y		NQ	2016-2218	CAAN-16-124889	GELC
12315303	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.421			0.067	ug/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122311	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.467			0.067	ug/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13231061	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
13004990	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
12777153	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
12544643	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
12315639	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.297	0.029	0.0952		pCi/L	Y		NQ	2016-856	CAAN-16-110571	GELC
12122429	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.345	0.037	0.135		pCi/L	Y		NQ	2015-2362	CAAN-15-104031	GELC
13231062	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
13004991	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
12777154	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
12544644	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
12315640	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0345	0.0121	0.0608		pCi/L	Y	U	U	2016-856	CAAN-16-110571	GELC
12122430	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.087	0.0202	0.0952		pCi/L	Y	U	U	2015-2362	CAAN-15-104031	GELC
13231063	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
13004992	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
12777155	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
12544645	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
12315641	R-29	1170.0	03/03/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.145	0.0204	0.0608		pCi/L	Y		NQ	2016-856	CAAN-16-110571	GELC
12122431	R-29	1170.0	09/21/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.237	0.03	0.125		pCi/L	Y		NQ	2015-2362	CAAN-15-104031	GELC
13230935	R-29	1170.0	03/06/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.18			1	ug/L	Y		NQ	2018-2089	CAAN-18-151443	GELC
13005035	R-29	1170.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.56			1	ug/L	Y	J	J	2017-2889	CAAN-17-144826	GELC
12776879	R-29	1170.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.98			1	ug/L	Y	J	J	2017-1277	CAAN-17-130477	GELC
12544333	R-29	1170.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.18			1	ug/L	Y		NQ	2016-2218	CAAN-16-124889	GELC
12315304	R-29	1170.0	03/03/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.71			1	ug/L	Y		NQ	2016-856	CAAN-16-110575	GELC
12122312	R-29	1170.0	09/21/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.42			1	ug/L	Y		NQ	2015-2362	CAAN-15-104033	GELC
13233881	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
13003083	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
12777100	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
12544570	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
12315455	R-30	1140.0	03/04/2016	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	2016-856	CAAN-16-110576	GELC
12123368	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98			0.01	SU	Y	H	NQ	2015-2366	CAAN-15-104034	GELC
13233893	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
13003081	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
12777120	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12544591	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
12315453	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.8			0.725	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123375	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.8			0.725	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233960	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
13003112	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
12777365	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
12544633	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
12315624	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00382	0.00467	0.0342		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123407	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00000000102	0.00578	0.0328		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233898	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
13003077	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
12777127	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
12544597	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
12315449	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0274			0.017	mg/L	Y	J	J	2016-856	CAAN-16-110576	GELC
12123377	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.105			0.017	mg/L	Y		U	2015-2366	CAAN-15-104034	GELC
13233820	R-30	1140.0	03/07/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	14.6			1	ug/L	Y		NQ	2018-2098	CAAN-18-151446	GELC
13003047	R-30	1140.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13			1	ug/L	Y		NQ	2017-2890	CAAN-17-144827	GELC
12776910	R-30	1140.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.5			1	ug/L	Y		NQ	2017-1277	CAAN-17-130478	GELC
12544347	R-30	1140.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.3			1	ug/L	Y		NQ	2016-2218	CAAN-16-124890	GELC
12315372	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.9			1	ug/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123339	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.5			1	ug/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233823	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
13003051	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
12776912	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
12544349	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
12315376	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.5			0.05	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123344	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.69			0.05	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233953	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
13003114	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
12777355	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
12544624	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
12315612	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.04	1.67	5.31		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123402	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.45	1.54	6.21		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233885	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
13003082	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
12777110	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
12544583	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
12315454	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.56			0.067	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123371	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.7			0.067	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233952	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
13003115	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
12777354	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
12544623	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
12315611	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.504	1.36	5.33		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123401	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.21	1.23	3.35		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233886	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
13003076	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
12777111	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
12544584	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
12315448	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.15			0.033	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123372	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.219			0.033	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233945	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
13003111	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
12777352	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
12544611	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
12315594	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0275	0.679	2.69		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
12123399	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.133	0.655	2.42		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233946	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
13003113	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
12777353	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
12544612	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
12315595	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.814	0.277	0.876		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123400	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.633	0.613	2.06		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233832	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
13003073	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
12776906	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
12544344	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
12315398	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.5			0.453	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123381	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.1			0.453	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233827	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
13003057	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
12776917	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
12544354	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
12315382	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.23			0.11	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123353	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.9			0.11	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233842	R-30	1140.0	03/07/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26			0.2	ug/L	Y		NQ	2018-2098	CAAN-18-151446	GELC
13003060	R-30	1140.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13			0.2	ug/L	Y		NQ	2017-2890	CAAN-17-144827	GELC
12776934	R-30	1140.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.38			0.3	ug/L	Y		NQ	2017-1277	CAAN-17-130478	GELC
12544366	R-30	1140.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2			0.3	ug/L	Y		NQ	2016-2218	CAAN-16-124890	GELC
12315385	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17			0.165	ug/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123362	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.35			0.165	ug/L	Y		J	2015-2366	CAAN-15-104034	GELC
13233956	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
13003116	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
12777358	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
12544627	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
12315615	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.2	3.32	11.2		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123405	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.189	3.06	11		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233902	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
13003078	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
12777133	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
12544603	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
12315450	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.336			0.017	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123379	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.3			0.017	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233971	R-30	1140.0	03/07/2018	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.247			0.05	ug/L	Y		NQ	2018-2098	CAAN-18-151446	GELC
13003110	R-30	1140.0	09/22/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.262			0.05	ug/L	Y		NQ	2017-2890	CAAN-17-144827	GELC
12777157	R-30	1140.0	03/27/2017	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.259			0.05	ug/L	Y		NQ	2017-1277	CAAN-17-130478	GELC
12544651	R-30	1140.0	08/26/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.225			0.05	ug/L	Y		NQ	2016-2218	CAAN-16-124890	GELC
12315648	R-30	1140.0	03/04/2016	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.244			0.05	ug/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123413	R-30	1140.0	09/22/2015	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.239			0.05	ug/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233963	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
13003117	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
12777366	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
12544638	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
12315631	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00227	0.00393	0.0359		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123408	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00339	0.00739	0.0406		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233964	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
13003118	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
12777367	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
12544639	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
12315632	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00907	0.00641	0.033		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123409	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00169	0.00795	0.0361		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233833	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
13003062	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
12776916	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
12544353	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
12315387	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.31			0.05	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123352	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.16			0.05	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233954	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
13003119	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
12777356	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
12544625	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
12315613	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.4	24	95.2		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123403	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29.6	17.2	58.9		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233836	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
13003064	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
12776920	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
12544357	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
12315389	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.7			0.053	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123356	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67.1			0.053	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233835	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
13003066	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
12776919	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
12544356	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
12315391	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1			0.1	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123355	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5			0.1	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233955	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
13003120	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
12777357	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
12544626	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
12315614	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.205	1.15	4.73		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123404	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.665	1.45	5.3		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233879	R-30	1140.0	03/07/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119			1	uS/cm	Y		NQ	2018-2098	CAAN-18-151446	GELC
13003085	R-30	1140.0	09/22/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129			1	uS/cm	Y		NQ	2017-2890	CAAN-17-144827	GELC
12777097	R-30	1140.0	03/27/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121			1	uS/cm	Y		NQ	2017-1277	CAAN-17-130478	GELC
12544567	R-30	1140.0	08/26/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105			3.63	uS/cm	Y		NQ	2016-2218	CAAN-16-124890	GELC
12315457	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127			3.63	uS/cm	Y		NQ	2016-856	CAAN-16-110576	GELC
12123367	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	107			1	uS/cm	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233838	R-30	1140.0	03/07/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	52.2			1	ug/L	Y		NQ	2018-2098	CAAN-18-151446	GELC
13003067	R-30	1140.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.6			1	ug/L	Y		NQ	2017-2890	CAAN-17-144827	GELC
12776922	R-30	1140.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.4			1	ug/L	Y		NQ	2017-1277	CAAN-17-130478	GELC
12544359	R-30	1140.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48.2			1	ug/L	Y		NQ	2016-2218	CAAN-16-124890	GELC
12315392	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	51.2			1	ug/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123358	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.7			1	ug/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233958	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
13003121	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
12777363	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
12544630	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
12315619	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.148	0.131	0.493		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123406	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.115	0.0927	0.404		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233887	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
13003084	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
12777112	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
12544585	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
12315456	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.49			0.133	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123373	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.5			0.133	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13234327	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
13234330	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
13003507	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

MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Field Sample Result Record #	Location ID	Screen Depth	Sample Date	Sample Type	Field Preparation Code	Analysis Type Code	Sample Purpose	Method Category	Lab Method	Parameter Name	Parameter Code	Detected	Report Result	Lab Uncertainty	Report MDA	Report MDL	Report Units	Best Value Flag	Lab Qualifier	Validation Qualifier	COC #	Field Sample ID	Lab ID
13003506	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
13233883	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
13003086	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
12777103	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
12544573	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
12315458	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131			3.4	mg/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123369	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136			3.4	mg/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233901	R-30	1140.0	03/07/2018	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.893			0.033	mg/L	Y		J+	2018-2098	CAAN-18-151491	GELC
13003087	R-30	1140.0	09/22/2017	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.033			0.033	mg/L	Y	U	U	2017-2890	CAAN-17-144829	GELC
12777130	R-30	1140.0	03/27/2017	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1			0.033	mg/L	Y	U	U	2017-1277	CAAN-17-130480	GELC
12544600	R-30	1140.0	08/26/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.067			0.033	mg/L	Y	J	J	2016-2218	CAAN-16-124888	GELC
12315444	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.338			0.33	mg/L	Y	J	J	2016-856	CAAN-16-110572	GELC
13233904	R-30	1140.0	03/07/2018	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0465			0.02	mg/L	Y	J	J	2018-2098	CAAN-18-151446	GELC
13003079	R-30	1140.0	09/22/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.545			0.02	mg/L	Y		NQ	2017-2890	CAAN-17-144827	GELC
12777136	R-30	1140.0	03/27/2017	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0374			0.02	mg/L	Y	J	J	2017-1277	CAAN-17-130478	GELC
12544606	R-30	1140.0	08/26/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05			0.02	mg/L	Y	U	U	2016-2218	CAAN-16-124890	GELC
12315451	R-30	1140.0	03/04/2016	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05			0.017	mg/L	Y	U	U	2016-856	CAAN-16-110576	GELC
12123380	R-30	1140.0	09/22/2015	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0449			0.017	mg/L	Y	J	J	2015-2366	CAAN-15-104034	GELC
13264852	R-30	1140.0	03/07/2018	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-1.479	0.635	2.118		pCi/L	Y	U	U	2018-2112	CAAN-18-151491	ARSL
13048104	R-30	1140.0	09/22/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	1.679	0.792	2.441		pCi/L	Y	U	U	2017-2937	CAAN-17-144829	ARSL
12838152	R-30	1140.0	03/27/2017	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	0.138	0.864	2.92		pCi/L	Y	U	U	2017-1286	CAAN-17-130480	ARSL
12573347	R-30	1140.0	08/26/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-0.828	0.576	1.974		pCi/L	Y	U	U	2016-2325	CAAN-16-124888	ARSL
12320154	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	0.286	0.58	1.95		pCi/L	Y	U	U	2016-871	CAAN-16-110572	ARSL
12131260	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tri	Tritium	H-3	N	-2.063	0.752	2.469		pCi/L	Y	U	U	2015-2371	CAAN-15-104032	ARSL
13233846	R-30	1140.0	03/07/2018	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.434			0.067	ug/L	Y		NQ	2018-2098	CAAN-18-151446	GELC
13003070	R-30	1140.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.521			0.067	ug/L	Y		NQ	2017-2890	CAAN-17-144827	GELC
12776940	R-30	1140.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.46			0.067	ug/L	Y		NQ	2017-1277	CAAN-17-130478	GELC
12544372	R-30	1140.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.488			0.067	ug/L	Y		NQ	2016-2218	CAAN-16-124890	GELC
12315395	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.475			0.067	ug/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123366	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.491			0.067	ug/L	Y		NQ	2015-2366	CAAN-15-104034	GELC
13233968	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
13003122	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
12777370	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
12544646	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
12315642	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.279	0.0256	0.0817		pCi/L	Y		NQ	2016-856	CAAN-16-110572	GELC
12123410	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.342	0.0329	0.129		pCi/L	Y		NQ	2015-2366	CAAN-15-104032	GELC
13233969	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
13003123	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
12777371	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
12544647	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
12315643	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00807	0.0111	0.0522		pCi/L	Y	U	U	2016-856	CAAN-16-110572	GELC
12123411	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0302	0.0131	0.0908		pCi/L	Y	U	U	2015-2366	CAAN-15-104032	GELC
13233970	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
13003124	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
12777372	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
12544648	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
12315644	R-30	1140.0	03/04/2016	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.159	0.0191	0.0522		pCi/L	Y		NQ	2016-856	CAAN-16-110572	GELC
12123412	R-30	1140.0	09/22/2015	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.201	0.0255	0.119		pCi/L	Y		J	2015-2366	CAAN-15-104032	GELC
13233839	R-30	1140.0	03/07/2018	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.31			1	ug/L	Y		NQ	2018-2098	CAAN-18-151446	GELC
13003071	R-30	1140.0	09/22/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.03			1	ug/L	Y		NQ	2017-2890	CAAN-17-144827	GELC
12776923	R-30	1140.0	03/27/2017	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.25			1	ug/L	Y		NQ	2017-1277	CAAN-17-130478	GELC
12544360	R-30	1140.0	08/26/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.35			1	ug/L	Y		NQ	2016-2218	CAAN-16-124890	GELC
12315396	R-30	1140.0	03/04/2016	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.04			1	ug/L	Y		NQ	2016-856	CAAN-16-110576	GELC
12123359	R-30	1140.0	09/22/2015	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.76			1	ug/L	Y		NQ	2015-2366	CAAN-15-104034	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)
2017-2889	Inorganic	GELC[a]	CAAN-17-144826	09/22/17	R-29	1170.0	1180.0
2017-2889	Inorganic	GELC	CAAN-17-144828	09/22/17	R-29	1170.0	1180.0
2017-2889	Organic	GELC	CAAN-17-144828	09/22/17	R-29	1170.0	1180.0
2017-2889	Rad[b]	GELC	CAAN-17-144828	09/22/17	R-29	1170.0	1180.0
2017-2890	Inorganic	GELC	CAAN-17-144827	09/22/17	R-30	1140.0	1160.9
2017-2890	Inorganic	GELC	CAAN-17-144829	09/22/17	R-30	1140.0	1160.9
2017-2890	Organic	GELC	CAAN-17-144829	09/22/17	R-30	1140.0	1160.9
2017-2890	Rad	GELC	CAAN-17-144829	09/22/17	R-30	1140.0	1160.9
2017-2937	Rad	ARSL[c]	CAAN-17-144828	09/22/17	R-29	1170.0	1180.0
2017-2937	Rad	ARSL	CAAN-17-144829	09/22/17	R-30	1140.0	1160.9
2018-2089	Inorganic	GELC	CAAN-18-151443	03/06/18	R-29	1170.0	1180.0
2018-2089	Inorganic	GELC	CAAN-18-151444	03/06/18	R-29	1170.0	1180.0
2018-2089	Organic	GELC	CAAN-18-151444	03/06/18	R-29	1170.0	1180.0
2018-2089	Rad	GELC	CAAN-18-151444	03/06/18	R-29	1170.0	1180.0
2018-2098	Inorganic	GELC	CAAN-18-151446	03/07/18	R-30	1140.0	1160.9
2018-2098	Inorganic	GELC	CAAN-18-151491	03/07/18	R-30	1140.0	1160.9
2018-2098	Organic	GELC	CAAN-18-151491	03/07/18	R-30	1140.0	1160.9
2018-2098	Rad	GELC	CAAN-18-151491	03/07/18	R-30	1140.0	1160.9
2018-2112	Rad	ARSL	CAAN-18-151444	03/06/18	R-29	1170.0	1180.0
2018-2112	Rad	ARSL	CAAN-18-151491	03/07/18	R-30	1140.0	1160.9
2018-2134	Inorganic	GELC	CAWA-18-151436	03/09/18	R-27	852.0	875.0
2018-2134	Inorganic	GELC	CAWA-18-151437	03/09/18	R-27	852.0	875.0
2018-2134	Inorganic	GELC	CAWA-18-151438	03/09/18	R-27i	619.0	629.0
2018-2134	Inorganic	GELC	CAWA-18-151439	03/09/18	R-27i	619.0	629.0
2018-2134	Organic	GELC	CAWA-18-151437	03/09/18	R-27	852.0	875.0
2018-2134	Organic	GELC	CAWA-18-151439	03/09/18	R-27i	619.0	629.0
2018-2134	Rad	GELC	CAWA-18-151437	03/09/18	R-27	852.0	875.0
2018-2134	Rad	GELC	CAWA-18-151439	03/09/18	R-27i	619.0	629.0
2018-2173	Rad	ARSL	CAWA-18-151437	03/09/18	R-27	852.0	875.0
2018-2173	Rad	ARSL	CAWA-18-151439	03/09/18	R-27i	619.0	629.0

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

[b] Rad = Radiochemistry (not gamma).

[c] ARSL = American Radiation Services, Inc.