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# **Periodic Monitoring Report for Material Disposal Area AB Monitoring Group, Second Quarter, Monitoring Year 2015**



Prepared by the Environmental Programs Directorate

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# Periodic Monitoring Report for Material Disposal Area AB Monitoring Group, Second Quarter, Monitoring Year 2015

August 2015


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## **EXECUTIVE SUMMARY**

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

The PME documented in this report occurred from February 6 to March 18, 2015, and included the monitoring of groundwater wells and well screens. The PME was completed outside the 21-day time frame stipulated in the Consent Order because samples were collected from two separate watersheds. This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of a PME are also included in this report. Two locations from the Ancho Canyon watershed portion of the General Surveillance monitoring group are also included in this report.

Water samples collected from various locations during this PME were analyzed for metals; volatile organic compounds; semivolatile organic compounds; high explosives; radionuclides, including low-level tritium; general inorganic chemicals, including perchlorate; stable isotopes; and field parameters (alkalinity, dissolved oxygen, pH, specific conductance, temperature, and turbidity).

No surface-water locations are sampled for this monitoring group.

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



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**Plate**

- Plate 1 Groundwater elevations



## Acronyms and Abbreviations

AQA	Analytical Quality Associates, Inc.
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
HE	high explosives
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
N	no (best value flag code)
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
RPF	Records Processing Facility
SOP	standard operating procedure
TA	technical area
TNT	2,4,6-trinitrotoluene
Y	yes (best value flag code)



## 1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of monitoring year 2015, second quarter, annual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Material Disposal Area (MDA) AB monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2015 Monitoring Year, October 2014–September 2015 (2015 IFGMP) (LANL 2014, 256728), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from February 6 to March 18, 2015, and included sampling of groundwater wells and well screens. The MDA AB monitoring group PME was completed outside of the 21-day time frame stipulated in the Consent Order because samples were collected from two separate watersheds, the Water Canyon watershed and Ancho Canyon watershed. Two locations from the Ancho Canyon watershed portion of the General Surveillance monitoring group are included in this report.

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

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

This report presents the following information:

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

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

### 1.1 Background

Most of the monitoring wells discussed in the 2015 IFGMP (LANL 2014, 256728) are assigned to area-specific monitoring groups related to project areas that may be located in more than one watershed. Locations that are not included within one of these six area-specific monitoring groups are assigned to the General Surveillance monitoring group. This PMR presents results from two well screens, R-31 screen 4 (S4) and screen 5 (S5), in the Ancho Canyon watershed portion of the General Surveillance 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 (HE) 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; HE 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 2010, 109318; LANL 2010, 109319).

## **2.0 SCOPE OF ACTIVITIES**

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

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

## **3.0 MONITORING RESULTS**

### **3.1 Methods and Procedures**

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

### **3.2 Field Parameter Results**

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

### **3.3 Groundwater Elevations**

The periodic monitoring water-level data for the previous 2 yr are presented in Appendix B (on CD included with this document). For wells equipped with transducers, the reported water level is the water-level measurement taken earliest on the day of sampling. All manual measurements were recorded immediately before sampling. The groundwater-elevation measurements are shown graphically on Plate 1. No surface-water locations are sampled for this monitoring group.

### **3.4 Deviations from Planned Scope**

Table 3.4-1 describes the fieldwork deviations from the planned scope of the PME. Table 3.4-2 presents a list of analytes for which the method detection limits (MDLs) are greater than screening levels. Some of the analytes were measured using more than one analytical method or analytical laboratory, leading to a range of MDLs. For some of these analytes, the MDL is much lower than for earlier analyses. Table 3.4-3 presents a list of analytes for which the MDLs are now below screening levels. The tables apply to the results with the lowest MDL, so the analytical method and analytical laboratory are included in the tables for reference.

## 4.0 ANALYTICAL DATA RESULTS

### 4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of the PME are documented in the 2015 IFGMP (LANL 2014, 256728). Purge water is managed and characterized in accordance with the waste characterization strategy form associated with the well and ENV-RCRA-QP-010.3, Land Application of Groundwater. ENV-RCRA-QP-010.3 implements the NMED-approved Notice of Intent Decision Tree for land application of drilling, development, rehabilitation, and sampling of purge water.

All sampling, data reviews, and data package validations were conducted using standard operating procedures (SOPs) that are part of a comprehensive quality assurance program. The procedures are listed at <http://www.lanl.gov/community-environment/environmental-stewardship/plans-procedures.php> and are available at [epr.lanl.gov](http://epr.lanl.gov). Completed chain-of-custody forms serve as analytical request forms and include the requester or owner, sample number, program code, date and time of sample collection, total number of bottles, list of analytes to be measured, bottle sizes, and preservatives for each required analysis.

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

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

After the Laboratory receives the analytical laboratory data packages, the packages receive secondary validation. For data collected before March 2012, validation was done by an independent contractor, Analytical Quality Associates, Inc. (AQA). After that date, validation is done by an automated process after data are loaded.

Data validation determines the quality of an analytical data set. Data validation focuses on specific quality assurance samples, such as matrix spikes, duplicates, surrogates, method blanks, 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.

AQA's reviews follow the guidelines set in the DOE model SOP for data validation, which includes reviewing the data quality and the documentation's correctness and completeness, verifying that holding times were met, and ensuring that analytical laboratory QC measures were applied, documented, and kept within contract requirements. As a result of secondary validation, a second set of qualifiers was assigned to the analytical results.

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

The Laboratory assigns detection status to the analytical result based on the analytical laboratory and secondary validation qualifiers. A detect flag of “N” indicates that, based on the qualifiers, the result was not detected.

## 4.2 Analytical Data

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

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

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

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

Data for PMRs are evaluated using the following screening process. The sources of screening levels with which the results are compared are listed in Table 4.2-1.

- The base-flow monitoring locations are assigned to one of two screening categories—perennial or ephemeral. Along with a hardness value, this category determines the screening levels used for data at each monitoring location. Hardness-dependent screening levels used to screen data at each base-flow monitoring location are determined using the geometric mean of hardness data (mg/L as calcium carbonate) collected from 2006 to 2010 at each location. Hardness-dependent acute and chronic criteria were used for total aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.900.

- Surface-water and groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order.
- Other groundwater data are screened to groundwater cleanup levels described in Section VIII.A.1 of the Consent Order; for an individual substance, the lesser of the EPA MCL or the NMWQCC groundwater standard is used.
- If an NMWQCC standard or an MCL has not been established for a specific substance for which toxicological information is published, the EPA regional screening levels for tap water (formerly Region 6 screening levels for tap water) are used as the groundwater cleanup level. These screening levels are for either a cancer- or noncancer-risk type. The Consent Order specifies screening at a  $10^{-5}$  excess cancer risk. The EPA screening levels are for  $10^{-6}$  excess cancer risk, so 10 times the EPA  $10^{-6}$  screening levels are used for screening. This report was prepared using the November 2014 EPA regional screening levels.
- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. EPA MCLs are applied to both filtered and unfiltered sample results.
- The analytical results for radioactivity are compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Technical Standards (DCSs) for groundwater.

The results of data screening for this PMR are presented in Appendix D. This appendix shows all analytical results greater than half the lowest applicable screening levels. Results with a best value flag of N are included in Appendix D but not discussed in the text. No results were greater than half the lowest applicable screening levels for the current PME, so no results are included in Appendix D.

Table 4.2-2 provides groundwater analytical results (by hydrogeologic zone for a specific analytical suite) that are above screening levels. Multiple detections are included in the table except for field duplicate exceedances. For example, if aluminum was detected above a screening level in both a primary sample and a field duplicate, only the primary sample result is shown. If aluminum was detected above a screening level in two primary samples, both results are shown. No results were greater than screening levels for the current PME, so no results are included in Table 4.2-2.

Graphs in Appendix E display concentration histories of analytes for locations where the analyte was above its screening level at least once during the three most recent PMEs. Concentrations of the analyte are plotted for a 3-yr period. If 3 yr of data are not available, then all available results for the analyte are plotted. When shown, the solid red lines depict applicable screening levels. Results with a best value flag of N are not included in Appendix E. No results were above their screening levels during the three most recent PMEs, so no results are included in Appendix E.

No analytes from the current PME exceeded their screening level at more than one sampling location, so no maps showing concentrations are included.

#### **4.2.1 Surface Water (Base Flow)**

No surface-water locations are included in this monitoring group.

#### **4.2.2 Groundwater**

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

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

#### **4.3 Sampling Program Modifications**

No modifications to the periodic monitoring sampling for the MDA AB monitoring group are proposed at this time.

### **5.0 SUMMARY AND INTERPRETATIONS**

#### **5.1 Monitoring Results**

The field parameter monitoring results are presented in Appendix A.

#### **5.2 Analytical Results**

##### **5.2.1 Surface Water (Base Flow)**

No surface-water locations are included in this monitoring group.

##### **5.2.2 Groundwater**

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

#### **5.3 Data Gaps**

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

#### **5.4 Remediation System Monitoring**

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

### **6.0 REFERENCES**

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



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

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

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

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

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

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)



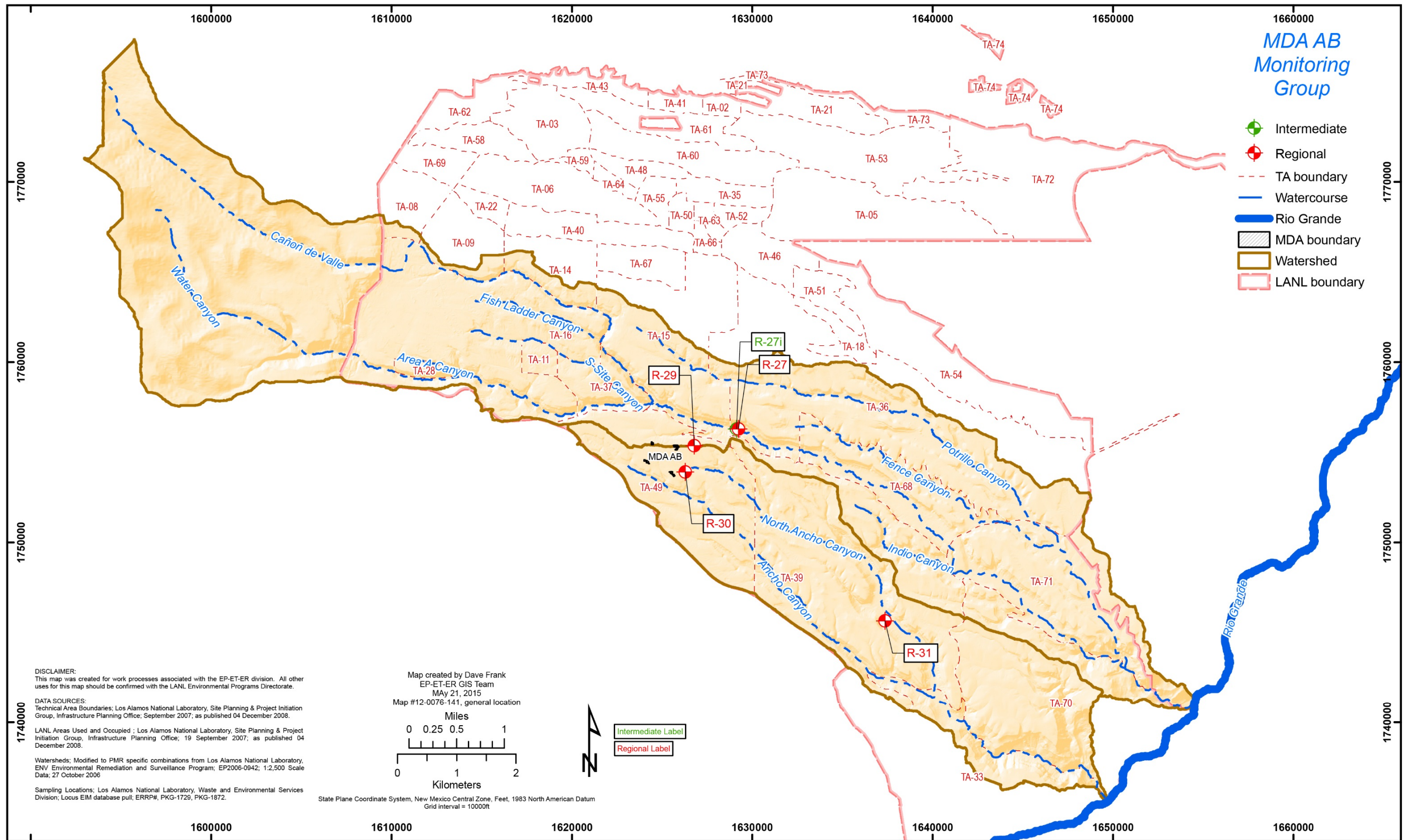


Figure 2.0-1 Locations scheduled to be monitored for this PME (see Table 3.4-1)



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

Updated Location Name	Sample Collection Date	Screened Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge or Flow Rate (gpm <sup>a</sup> )
<b>Intermediate</b>							
R-27i	02/06/15	10	619	629	13.53	40.95	0.65
<b>Regional</b>							
R-27	02/06/15	23	852	875	50.43	153.18	3.33
R-29	03/09/15	10	1170	1180	39.8	247.5	7.5
R-30	03/10/15	21	1140	1161	47.14	142.24	5.08
R-31 S4 <sup>b</sup>	03/17/15	10	826.60	836.6	n/a <sup>c</sup>	n/a	n/a
R-31 S5 <sup>b</sup>	03/18/15	10	1007.10	1017.1	n/a	n/a	n/a

<sup>a</sup> gpm = Gallons per minute.

<sup>b</sup> Ancho portion of the General Surveillance monitoring group.

<sup>c</sup> n/a = Not applicable. Westbay wells are not subject to purge requirements.

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

Location	Deviation	Cause	Comment
MDA AB monitoring locations	Exceedance of 21-day Consent Order time frame to complete sampling	Locations are in two separate watersheds	Watersheds will be sampled concurrently in the next scheduled PME.

**Table 3.4-2  
Target Analytes with MDLs above Screening Levels for Current PME**

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
<b>Semivolatile Organic Compounds</b>						
Atrazine	3.06–3.19	SW-846:8270D	3	µg/L	NMWQCC GW STD <sup>a</sup>	GELC <sup>b</sup>
Azobenzene	3–3.19	SW-846:8270D	1.2	µg/L	NMWQCC GW STD	GELC
Benzidine	0.25–4.15	SW-846:8270D	0.0011	µg/L	NMWQCC GW STD	SHEALY <sup>c</sup> , GELC
Benzo(a)pyrene	0.3–0.319	SW-846:8270D	0.2	µg/L	NMWQCC GW STD	GELC
Bis(2-chloroethyl)ether	3–3.19	SW-846:8270D	0.14	µg/L	NMWQCC GW STD	GELC
Dibenz(a,h)anthracene	0.3–0.319	SW-846:8270D	0.034	µg/L	NMWQCC GW STD	GELC
Dichlorobenzidine[3,3'-]	3–3.19	SW-846:8270D	1.2	µg/L	NMWQCC GW STD	GELC
Dinitro-2-methylphenol[4,6-]	1.6–3.19	SW-846:8270D	1.5	µg/L	NMWQCC GW STD	SHEALY, GELC
Hexachlorobenzene	3–3.19	SW-846:8270D	1	µg/L	NMWQCC GW STD	GELC
Nitrosodiethylamine[N-]	0.53–3.19	SW-846:8270D	0.0017	µg/L	NMWQCC GW STD	SHEALY, GELC
Nitrosodimethylamine[N-]	0.1–3.19	SW-846:8270D	0.0049	µg/L	NMWQCC GW STD	SHEALY, GELC
Nitroso-di-n-butylamine[N-]	0.21–3.19	SW-846:8270D	0.027	µg/L	NMWQCC GW STD	SHEALY, GELC
Nitroso-di-n-propylamine[N-]	3–3.19	SW-846:8270D	0.11	µg/L	NMWQCC GW STD	GELC
Nitrosopyrrolidine[N-]	3–3.19	SW-846:8270D	0.37	µg/L	NMWQCC GW STD	GELC
Pentachlorophenol	3–3.19	SW-846:8270D	1	µg/L	NMWQCC GW STD	GELC
<b>Volatile Organic Compounds</b>						
Acrolein	0.96–1.5	SW-846:8260B	0.042	µg/L	NMWQCC GW STD	SHEALY, GELC
Acrylonitrile	1–1.5	SW-846:8260B	0.52	µg/L	NMWQCC GW STD	GELC, SHEALY
Chloro-1,3-butadiene[2-]	0.2–0.3	SW-846:8260B	0.19	µg/L	NMWQCC GW STD	GELC
Dibromo-3-Chloropropane[1,2-]	0.5	SW-846:8260B	0.2	µg/L	NMWQCC GW STD	GELC
Dibromoethane[1,2-]	0.3	SW-846:8260B	0.05	µg/L	NMWQCC GW STD	GELC
Trichloropropane[1,2,3-]	0.3–0.33	SW-846:8260B	0.0075	µg/L	NMWQCC GW STD	GELC, SHEALY

<sup>a</sup> NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

<sup>b</sup> GELC = General Engineering Laboratories, Inc., Charleston, SC.

<sup>c</sup> SHEALY = Shealy Environmental Services, Inc.

**Table 3.4-3  
Target Analytes with MDLs below Screening Levels for Current PME**

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
<b>Herbicides</b>						
Pentachlorophenol	0.0842–0.0916	SW-846:8270D	1	µg/L	NMWQCC GW STD <sup>a</sup>	GELC <sup>b</sup>
<b>Semivolatile Organic Compounds</b>						
Atrazine	0.2–3	SW-846:8270D	3	µg/L	NMWQCC GW STD	GELC, SHEALY <sup>c</sup>
Azobenzene	0.16–0.17	SW-846:8270D	1.2	µg/L	NMWQCC GW STD	SHEALY
Benzo(a)anthracene	0.0162–0.319	SW-846:8270D	0.34	µg/L	NMWQCC GW STD	GELC
Benzo(a)pyrene	0.0162–0.018	SW-846:8270D	0.2	µg/L	NMWQCC GW STD	GELC
Benzo(b)fluoranthene	0.0162–0.319	SW-846:8270D	0.34	µg/L	NMWQCC GW STD	GELC
Bis(2-chloroethyl)ether	0.13–0.14	SW-846:8270D	0.14	µg/L	NMWQCC GW STD	SHEALY
Dibenz(a,h)anthracene	0.0162–0.018	SW-846:8270D	0.034	µg/L	NMWQCC GW STD	GELC
Dichlorobenzidine[3,3'-]	0.81–0.85	SW-846:8270D	1.2	µg/L	NMWQCC GW STD	SHEALY
Dinitro-2-methylphenol[4,6-]	1.5	SW-846:8270D	1.5	µg/L	NMWQCC GW STD	SHEALY
Hexachlorobenzene	0.21–0.22	SW-846:8270D	1	µg/L	NMWQCC GW STD	SHEALY
Indeno(1,2,3-cd)pyrene	0.0162–0.319	SW-846:8270D	0.34	µg/L	NMWQCC GW STD	GELC
Nitroso-di-n-propylamine[N-]	0.08–0.084	SW-846:8270D	0.11	µg/L	NMWQCC GW STD	SHEALY
Nitrosopyrrolidine[N-]	0.26–0.27	SW-846:8270D	0.37	µg/L	NMWQCC GW STD	SHEALY
Oxybis(1-chloropropane)[2,2'-]	0.08–3.19	SW-846:8270D	3.6	µg/L	NMWQCC GW STD	GELC, SHEALY
<b>Volatile Organic Compounds</b>						
Chloro-1,3-butadiene[2-]	0.15	SW-846:8270D	0.19	µg/L	NMWQCC GW STD	SHEALY
Dibromo-3-Chloropropane[1,2-]	0.00599– 0.00606	SW-846:8270D	0.2	µg/L	NMWQCC GW STD	GELC
Dibromoethane[1,2-]	0.00599– 0.00606	SW-846:8270D	0.05	µg/L	NMWQCC GW STD	GELC
Methacrylonitrile	0.31–1.5	SW-846:8270D	1.9	µg/L	NMWQCC GW STD	GELC, SHEALY

<sup>a</sup> NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

<sup>b</sup> GELC = General Engineering Laboratories, Inc., Charleston, SC.

<sup>c</sup> SHEALY = Shealy Environmental Services, Inc.

**Table 4.2-1  
Sources of Screening Levels for Groundwater  
and Surface Water at Los Alamos National Laboratory**

Standard Source	Standard Type	Groundwater	Surface Water
DOE Order 458.1	DOE BCGs	n/a <sup>a</sup>	X <sup>b</sup>
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 <sup>c</sup> 141	EPA Primary Drinking Water Standard	X	n/a
EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites	EPA Regional Screening Levels for Tap Water	X	n/a
20 NMAC.3.4	New Mexico Environmental Improvement Board Radiation Protection Standards	X	X
20 NMAC 6.2.3103	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4.C	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4.F	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4.G	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4.H	NMWQCC Aquatic Life Standards Acute	n/a	X <sup>d, e</sup>
20 NMAC 6.4.H	NMWQCC Aquatic Life Standards Chronic	n/a	X <sup>d, e</sup>
20 NMAC 6.4.H	NMWQCC Aquatic Life Human Health Standard	n/a	X

<sup>a</sup> n/a = Not applicable.

<sup>b</sup> X = Applied to data screen for this report.

<sup>c</sup> CFR = Code of Federal Regulations.

<sup>d</sup> Hardness-based standards for total recoverable aluminum and dissolved chromium (III) conservatively compared to results for total aluminum and dissolved chromium, respectively.

<sup>e</sup> Standard for dissolved chromium (VI) conservatively compared to results for dissolved chromium.

**Table 4.2-2  
MDA AB Monitoring Group Groundwater Results above Screening Levels**

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

\* n/a = Not applicable.



## **Appendix A**

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*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	02/06/15	WG <sup>a</sup>	Dissolved Oxygen	7.02	mg/L	CAWA-15-91341
R-27	852	03/07/14	WG	Dissolved Oxygen	7.03	mg/L	CAWA-14-54782
R-27	852	03/11/13	WG	Dissolved Oxygen	7.23	mg/L	CAWA-13-28880
R-27	852	02/03/12	WG	Dissolved Oxygen	7.13	mg/L	CAWA-12-2022
R-27	852	04/04/11	WG	Dissolved Oxygen	6.9	mg/L	CAWA-11-5100
R-27	852	02/06/15	WG	Flow (in gpm <sup>b</sup> )	3.33	gpm	CAWA-15-91341
R-27	852	03/07/14	WG	Flow (in gpm)	3.75	gpm	CAWA-14-54782
R-27	852	02/03/12	WG	Flow (in gpm)	4	gpm	CAWA-12-2022
R-27	852	04/04/11	WG	Flow (in gpm)	4	gpm	CAWA-11-5100
R-27	852	09/14/10	WG	Flow (in gpm)	4	gpm	CAWA-10-25888
R-27	852	02/06/15	WG	Oxidation-Reduction Potential	64.6	mV	CAWA-15-91341
R-27	852	03/07/14	WG	Oxidation-Reduction Potential	102.1	mV	CAWA-14-54782
R-27	852	03/11/13	WG	Oxidation-Reduction Potential	45.4	mV	CAWA-13-28880
R-27	852	02/03/12	WG	Oxidation-Reduction Potential	17.1	mV	CAWA-12-2022
R-27	852	04/04/11	WG	Oxidation-Reduction Potential	8	mV	CAWA-11-5100
R-27	852	02/06/15	WG	pH	7.88	SU <sup>c</sup>	CAWA-15-91341
R-27	852	03/07/14	WG	pH	7.87	SU	CAWA-14-54782
R-27	852	03/11/13	WG	pH	7.95	SU	CAWA-13-28880
R-27	852	02/03/12	WG	pH	7.99	SU	CAWA-12-2022
R-27	852	04/04/11	WG	pH	7.96	SU	CAWA-11-5100
R-27	852	02/06/15	WG	Specific Conductance	120	μS/cm	CAWA-15-91341
R-27	852	03/07/14	WG	Specific Conductance	122	μS/cm	CAWA-14-54782
R-27	852	03/11/13	WG	Specific Conductance	119	μS/cm	CAWA-13-28880
R-27	852	02/03/12	WG	Specific Conductance	119	μS/cm	CAWA-12-2022
R-27	852	04/04/11	WG	Specific Conductance	119	μS/cm	CAWA-11-5100
R-27	852	02/06/15	WG	Temperature	18.39	deg C	CAWA-15-91341
R-27	852	03/07/14	WG	Temperature	18.44	deg C	CAWA-14-54782
R-27	852	03/11/13	WG	Temperature	17.88	deg C	CAWA-13-28880

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-27	852	02/03/12	WG	Temperature	17.29	deg C	CAWA-12-2022
R-27	852	04/04/11	WG	Temperature	17.1	deg C	CAWA-11-5100
R-27	852	02/06/15	WG	Turbidity	0.7	NTU <sup>d</sup>	CAWA-15-91341
R-27	852	03/07/14	WG	Turbidity	0	NTU	CAWA-14-54782
R-27	852	03/11/13	WG	Turbidity	0.1	NTU	CAWA-13-28880
R-27	852	02/03/12	WG	Turbidity	0.4	NTU	CAWA-12-2022
R-27	852	04/04/11	WG	Turbidity	0.33	NTU	CAWA-11-5100
R-27i	619	02/06/15	WG	Dissolved Oxygen	8.14	mg/L	CAWA-15-91342
R-27i	619	03/07/14	WG	Dissolved Oxygen	7.86	mg/L	CAWA-14-54783
R-27i	619	03/11/13	WG	Dissolved Oxygen	8.07	mg/L	CAWA-13-28881
R-27i	619	02/03/12	WG	Dissolved Oxygen	8.16	mg/L	CAWA-12-2018
R-27i	619	06/20/11	WG	Dissolved Oxygen	8.08	mg/L	CAWA-11-14631
R-27i	619	06/20/11	WG	Dissolved Oxygen	8.1	mg/L	CAWA-11-13980
R-27i	619	06/20/11	WG	Dissolved Oxygen	8.12	mg/L	CAWA-11-14633
R-27i	619	06/20/11	WG	Dissolved Oxygen	8.1	mg/L	CAWA-11-14635
R-27i	619	02/06/15	WG	Flow (in gpm)	0.65	gpm	CAWA-15-91342
R-27i	619	03/07/14	WG	Flow (in gpm)	0.6	gpm	CAWA-14-54783
R-27i	619	02/03/12	WG	Flow (in gpm)	0.55	gpm	CAWA-12-2018
R-27i	619	06/20/11	WG	Flow (in gpm)	0.31	gpm	CAWA-11-14631
R-27i	619	06/20/11	WG	Flow (in gpm)	0.38	gpm	CAWA-11-13980
R-27i	619	06/20/11	WG	Flow (in gpm)	0.36	gpm	CAWA-11-14633
R-27i	619	06/20/11	WG	Flow (in gpm)	0.38	gpm	CAWA-11-14635
R-27i	619	04/04/11	WG	Flow (in gpm)	0.5	gpm	CAWA-11-5320
R-27i	619	02/06/15	WG	Oxidation-Reduction Potential	118.6	mV	CAWA-15-91342
R-27i	619	03/07/14	WG	Oxidation-Reduction Potential	170.6	mV	CAWA-14-54783
R-27i	619	03/11/13	WG	Oxidation-Reduction Potential	240.1	mV	CAWA-13-28881
R-27i	619	02/03/12	WG	Oxidation-Reduction Potential	193.1	mV	CAWA-12-2018
R-27i	619	06/20/11	WG	Oxidation-Reduction Potential	-70.7	mV	CAWA-11-14631

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-27i	619	06/20/11	WG	Oxidation-Reduction Potential	-74.2	mV	CAWA-11-13980
R-27i	619	06/20/11	WG	Oxidation-Reduction Potential	-73	mV	CAWA-11-14633
R-27i	619	06/20/11	WG	Oxidation-Reduction Potential	-74.2	mV	CAWA-11-14635
R-27i	619	02/06/15	WG	pH	6.88	SU	CAWA-15-91342
R-27i	619	03/07/14	WG	pH	6.99	SU	CAWA-14-54783
R-27i	619	03/11/13	WG	pH	6.46	SU	CAWA-13-28881
R-27i	619	02/03/12	WG	pH	7.08	SU	CAWA-12-2018
R-27i	619	06/20/11	WG	pH	7.03	SU	CAWA-11-14631
R-27i	619	06/20/11	WG	pH	7.1	SU	CAWA-11-13980
R-27i	619	06/20/11	WG	pH	7.08	SU	CAWA-11-14633
R-27i	619	06/20/11	WG	pH	7.1	SU	CAWA-11-14635
R-27i	619	02/06/15	WG	Specific Conductance	0.6	µS/cm	CAWA-15-91342
R-27i	619	03/07/14	WG	Specific Conductance	106	µS/cm	CAWA-14-54783
R-27i	619	03/11/13	WG	Specific Conductance	103	µS/cm	CAWA-13-28881
R-27i	619	02/03/12	WG	Specific Conductance	102	µS/cm	CAWA-12-2018
R-27i	619	06/20/11	WG	Specific Conductance	104	µS/cm	CAWA-11-14631
R-27i	619	06/20/11	WG	Specific Conductance	105	µS/cm	CAWA-11-13980
R-27i	619	06/20/11	WG	Specific Conductance	105	µS/cm	CAWA-11-14633
R-27i	619	06/20/11	WG	Specific Conductance	105	µS/cm	CAWA-11-14635
R-27i	619	02/06/15	WG	Temperature	13.48	deg C	CAWA-15-91342
R-27i	619	03/07/14	WG	Temperature	13.19	deg C	CAWA-14-54783
R-27i	619	03/11/13	WG	Temperature	13.39	deg C	CAWA-13-28881
R-27i	619	02/03/12	WG	Temperature	12.93	deg C	CAWA-12-2018
R-27i	619	06/20/11	WG	Temperature	13.26	deg C	CAWA-11-14631
R-27i	619	06/20/11	WG	Temperature	13.98	deg C	CAWA-11-13980
R-27i	619	06/20/11	WG	Temperature	13.74	deg C	CAWA-11-14633
R-27i	619	06/20/11	WG	Temperature	13.98	deg C	CAWA-11-14635
R-27i	619	02/06/15	WG	Turbidity	1.2	NTU	CAWA-15-91342

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-27i	619	03/07/14	WG	Turbidity	0.3	NTU	CAWA-14-54783
R-27i	619	03/11/13	WG	Turbidity	1.6	NTU	CAWA-13-28881
R-27i	619	02/03/12	WG	Turbidity	0.45	NTU	CAWA-12-2018
R-27i	619	06/20/11	WG	Turbidity	0.5	NTU	CAWA-11-14631
R-27i	619	06/20/11	WG	Turbidity	0.48	NTU	CAWA-11-13980
R-27i	619	06/20/11	WG	Turbidity	0.4	NTU	CAWA-11-14633
R-27i	619	06/20/11	WG	Turbidity	0.48	NTU	CAWA-11-14635
R-29	1170	03/09/15	WG	Dissolved Oxygen	7.09	mg/L	CAAN-15-92883
R-29	1170	08/06/14	WG	Dissolved Oxygen	7.14	mg/L	CAAN-14-84628
R-29	1170	03/12/14	WG	Dissolved Oxygen	8.17	mg/L	CAAN-14-54788
R-29	1170	03/12/13	WG	Dissolved Oxygen	7.78	mg/L	CAAN-13-28901
R-29	1170	02/02/12	WG	Dissolved Oxygen	7.22	mg/L	CAAN-12-2024
R-29	1170	03/09/15	WG	Flow (in gpm)	7.5	gpm	CAAN-15-92883
R-29	1170	08/06/14	WG	Flow (in gpm)	7.3	gpm	CAAN-14-84628
R-29	1170	03/12/14	WG	Flow (in gpm)	7.3	gpm	CAAN-14-54788
R-29	1170	02/02/12	WG	Flow (in gpm)	6.8	gpm	CAAN-12-2024
R-29	1170	09/21/11	WG	Flow (in gpm)	6.8	gpm	CAAN-11-26932
R-29	1170	09/21/11	WG	Flow (in gpm)	6.8	gpm	CAAN-11-26934
R-29	1170	09/21/11	WG	Flow (in gpm)	6.8	gpm	CAAN-11-27010
R-29	1170	09/21/11	WG	Flow (in gpm)	6.8	gpm	CAAN-11-26930
R-29	1170	03/09/15	WG	Oxidation-Reduction Potential	203.5	mV	CAAN-15-92883
R-29	1170	08/06/14	WG	Oxidation-Reduction Potential	71	mV	CAAN-14-84628
R-29	1170	03/12/14	WG	Oxidation-Reduction Potential	133.5	mV	CAAN-14-54788
R-29	1170	03/12/13	WG	Oxidation-Reduction Potential	199.4	mV	CAAN-13-28901
R-29	1170	02/02/12	WG	Oxidation-Reduction Potential	36.2	mV	CAAN-12-2024
R-29	1170	03/09/15	WG	pH	8.12	SU	CAAN-15-92883
R-29	1170	08/06/14	WG	pH	7.66	SU	CAAN-14-84628
R-29	1170	03/12/14	WG	pH	8.1	SU	CAAN-14-54788

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-29	1170	03/12/13	WG	pH	7.96	SU	CAAN-13-28901
R-29	1170	02/02/12	WG	pH	8.13	SU	CAAN-12-2024
R-29	1170	03/09/15	WG	Specific Conductance	126	µS/cm	CAAN-15-92883
R-29	1170	08/06/14	WG	Specific Conductance	123	µS/cm	CAAN-14-84628
R-29	1170	03/12/14	WG	Specific Conductance	129	µS/cm	CAAN-14-54788
R-29	1170	03/12/13	WG	Specific Conductance	124	µS/cm	CAAN-13-28901
R-29	1170	02/02/12	WG	Specific Conductance	133	µS/cm	CAAN-12-2024
R-29	1170	03/09/15	WG	Temperature	18.76	deg C	CAAN-15-92883
R-29	1170	08/06/14	WG	Temperature	19.14	deg C	CAAN-14-84628
R-29	1170	03/12/14	WG	Temperature	18.21	deg C	CAAN-14-54788
R-29	1170	03/12/13	WG	Temperature	17.9	deg C	CAAN-13-28901
R-29	1170	02/02/12	WG	Temperature	18.15	deg C	CAAN-12-2024
R-29	1170	03/09/15	WG	Turbidity	6.4	NTU	CAAN-15-92883
R-29	1170	08/06/14	WG	Turbidity	6.3	NTU	CAAN-14-84628
R-29	1170	03/12/14	WG	Turbidity	7.2	NTU	CAAN-14-54788
R-29	1170	03/12/13	WG	Turbidity	11.1	NTU	CAAN-13-28901
R-29	1170	02/02/12	WG	Turbidity	8.94	NTU	CAAN-12-2024
R-30	1140	03/10/15	WG	Dissolved Oxygen	6.97	mg/L	CAAN-15-92884
R-30	1140	08/11/14	WG	Dissolved Oxygen	7.22	mg/L	CAAN-14-84629
R-30	1140	03/05/14	WG	Dissolved Oxygen	7.14	mg/L	CAAN-14-54789
R-30	1140	03/12/13	WG	Dissolved Oxygen	7.4	mg/L	CAAN-13-28902
R-30	1140	02/01/12	WG	Dissolved Oxygen	7.98	mg/L	CAAN-12-2031
R-30	1140	03/10/15	WG	Flow (in gpm)	5.08	gpm	CAAN-15-92884
R-30	1140	08/11/14	WG	Flow (in gpm)	5.26	gpm	CAAN-14-84629
R-30	1140	03/05/14	WG	Flow (in gpm)	5.17	gpm	CAAN-14-54789
R-30	1140	02/01/12	WG	Flow (in gpm)	1.5	gpm	CAAN-12-2031
R-30	1140	09/14/11	WG	Flow (in gpm)	4.5	gpm	CAAN-11-27018
R-30	1140	03/10/15	WG	Oxidation-Reduction Potential	204.2	mV	CAAN-15-92884

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-30	1140	08/11/14	WG	Oxidation-Reduction Potential	81.2	mV	CAAN-14-84629
R-30	1140	03/05/14	WG	Oxidation-Reduction Potential	157.7	mV	CAAN-14-54789
R-30	1140	03/12/13	WG	Oxidation-Reduction Potential	188.9	mV	CAAN-13-28902
R-30	1140	02/01/12	WG	Oxidation-Reduction Potential	176.6	mV	CAAN-12-2031
R-30	1140	03/10/15	WG	pH	8.17	SU	CAAN-15-92884
R-30	1140	08/11/14	WG	pH	7.75	SU	CAAN-14-84629
R-30	1140	03/05/14	WG	pH	8.11	SU	CAAN-14-54789
R-30	1140	03/12/13	WG	pH	8.01	SU	CAAN-13-28902
R-30	1140	02/01/12	WG	pH	7.97	SU	CAAN-12-2031
R-30	1140	03/10/15	WG	Specific Conductance	120	μS/cm	CAAN-15-92884
R-30	1140	08/11/14	WG	Specific Conductance	118	μS/cm	CAAN-14-84629
R-30	1140	03/05/14	WG	Specific Conductance	121	μS/cm	CAAN-14-54789
R-30	1140	03/12/13	WG	Specific Conductance	117	μS/cm	CAAN-13-28902
R-30	1140	02/01/12	WG	Specific Conductance	117	μS/cm	CAAN-12-2031
R-30	1140	03/10/15	WG	Temperature	19.43	deg C	CAAN-15-92884
R-30	1140	08/11/14	WG	Temperature	20.04	deg C	CAAN-14-84629
R-30	1140	03/05/14	WG	Temperature	19	deg C	CAAN-14-54789
R-30	1140	03/12/13	WG	Temperature	19.18	deg C	CAAN-13-28902
R-30	1140	02/01/12	WG	Temperature	20.25	deg C	CAAN-12-2031
R-30	1140	03/10/15	WG	Turbidity	0.78	NTU	CAAN-15-92884
R-30	1140	08/11/14	WG	Turbidity	0.45	NTU	CAAN-14-84629
R-30	1140	03/05/14	WG	Turbidity	0.6	NTU	CAAN-14-54789
R-30	1140	03/12/13	WG	Turbidity	0.9	NTU	CAAN-13-28902
R-30	1140	02/01/12	WG	Turbidity	1.25	NTU	CAAN-12-2031
R-31 S4	826.6	03/17/15	WG	Dissolved Oxygen	6.97	mg/L	CAAN-15-92885
R-31 S4	826.6	03/26/13	WG	Dissolved Oxygen	7.11	mg/L	CAAN-13-28914
R-31 S4	826.6	02/01/12	WG	Dissolved Oxygen	6.88	mg/L	CAAN-12-2027
R-31 S4	826.6	09/20/10	WG	Dissolved Oxygen	3.71	mg/L	CAAN-10-25927



Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-31 S4	826.6	04/22/10	WG	Dissolved Oxygen	8.49	mg/L	CAAN-10-15245
R-31 S4	826.6	03/17/15	WG	pH	8.35	SU	CAAN-15-92885
R-31 S4	826.6	03/26/13	WG	pH	7.67	SU	CAAN-13-28914
R-31 S4	826.6	02/01/12	WG	pH	7.32	SU	CAAN-12-2027
R-31 S4	826.6	09/20/10	WG	pH	8.01	SU	CAAN-10-25927
R-31 S4	826.6	04/22/10	WG	pH	7.78	SU	CAAN-10-15245
R-31 S4	826.6	03/17/15	WG	Specific Conductance	123	µS/cm	CAAN-15-92885
R-31 S4	826.6	03/26/13	WG	Specific Conductance	114	µS/cm	CAAN-13-28914
R-31 S4	826.6	02/01/12	WG	Specific Conductance	119	µS/cm	CAAN-12-2027
R-31 S4	826.6	09/20/10	WG	Specific Conductance	123	µS/cm	CAAN-10-25927
R-31 S4	826.6	04/22/10	WG	Specific Conductance	99	µS/cm	CAAN-10-15245
R-31 S4	826.6	03/17/15	WG	Temperature	20.64	deg C	CAAN-15-92885
R-31 S4	826.6	03/26/13	WG	Temperature	18.83	deg C	CAAN-13-28914
R-31 S4	826.6	02/01/12	WG	Temperature	19.03	deg C	CAAN-12-2027
R-31 S4	826.6	09/20/10	WG	Temperature	24.76	deg C	CAAN-10-25927
R-31 S4	826.6	04/22/10	WG	Temperature	20.83	deg C	CAAN-10-15245
R-31 S4	826.6	03/17/15	WG	Turbidity	5	NTU	CAAN-15-92885
R-31 S4	826.6	03/26/13	WG	Turbidity	4.1	NTU	CAAN-13-28914
R-31 S4	826.6	02/01/12	WG	Turbidity	0.97	NTU	CAAN-12-2027
R-31 S4	826.6	09/20/10	WG	Turbidity	0.49	NTU	CAAN-10-25927
R-31 S4	826.6	04/22/10	WG	Turbidity	1.48	NTU	CAAN-10-15245
R-31 S5	1007.1	03/18/15	WG	Dissolved Oxygen	6.45	mg/L	CAAN-15-92886
R-31 S5	1007.1	03/22/13	WG	Dissolved Oxygen	6.92	mg/L	CAAN-13-28915
R-31 S5	1007.1	02/01/12	WG	Dissolved Oxygen	7.09	mg/L	CAAN-12-2035
R-31 S5	1007.1	09/09/10	WG	Dissolved Oxygen	8.12	mg/L	CAAN-10-25931
R-31 S5	1007.1	04/22/10	WG	Dissolved Oxygen	3.96	mg/L	CAAN-10-15247
R-31 S5	1007.1	03/18/15	WG	pH	8.51	SU	CAAN-15-92886
R-31 S5	1007.1	03/22/13	WG	pH	8.25	SU	CAAN-13-28915

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-31 S5	1007.1	02/01/12	WG	pH	8.28	SU	CAAN-12-2035
R-31 S5	1007.1	09/09/10	WG	pH	8.09	SU	CAAN-10-25931
R-31 S5	1007.1	04/22/10	WG	pH	8.15	SU	CAAN-10-15247
R-31 S5	1007.1	03/18/15	WG	Specific Conductance	120	µS/cm	CAAN-15-92886
R-31 S5	1007.1	03/22/13	WG	Specific Conductance	111	µS/cm	CAAN-13-28915
R-31 S5	1007.1	02/01/12	WG	Specific Conductance	115	µS/cm	CAAN-12-2035
R-31 S5	1007.1	09/09/10	WG	Specific Conductance	121	µS/cm	CAAN-10-25931
R-31 S5	1007.1	04/22/10	WG	Specific Conductance	96	µS/cm	CAAN-10-15247
R-31 S5	1007.1	03/18/15	WG	Turbidity	9.3	NTU	CAAN-15-92886
R-31 S5	1007.1	03/22/13	WG	Turbidity	2.4	NTU	CAAN-13-28915
R-31 S5	1007.1	02/01/12	WG	Turbidity	1.2	NTU	CAAN-12-2035
R-31 S5	1007.1	09/09/10	WG	Turbidity	1.01	NTU	CAAN-10-25931
R-31 S5	1007.1	04/22/10	WG	Turbidity	1.55	NTU	CAAN-10-15247

<sup>a</sup> WG = Groundwater.

<sup>b</sup> gpm = Gallons per minute.

<sup>c</sup> SU = Standard unit.

<sup>d</sup> NTU = Nephelometric turbidity unit.

## **Appendix B**

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



## **Appendix C**

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

**Acronyms and Abbreviations (continued)**

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



**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Miscellaneous (continued)</b>	
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
<b>Field Matrix Codes</b>	
W	water
WG	groundwater
WM	snowmelt
WP	persistent flow
WS	base flow
WT	storm runoff
<b>Field Prep Codes</b>	
F	filtered
UF	unfiltered
<b>Lab Sample Type Codes</b>	
CS	client sample
DL	dilution
DUP	duplicate
INIT	initial
RE	reanalysis
REDL	reanalysis dilution
REDP	reanalysis duplicate
RI	reissue
TRP	triplicate
<b>Field QC Type Codes</b>	
EQB	equipment rinsate blank
FB	field blank
FD	field duplicate
FR	field rinsate
FS	field split
FTB	field trip blank
FTR	field triplicate
INB	equipment blank taken during installation and not associated with a sampling event
ITB	trip blank taken during installation and not associated with a sampling event
NA	not applicable
PEB	performance evaluation blank

**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Field QC Type Codes (continued)</b>	
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
<b>Analytical Suite Codes</b>	
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
<b>Detect Flag and Best Value Flag Codes</b>	
N	no
Y	yes
<b>Lab Codes</b>	
ALTC	Alta Analytical Laboratory, Inc., San Diego, CA
ARSL	American Radiation Services, Inc.
CFA	Cape Fear Analytical, LLC, Wilmington, NC
C-INC	Isotope and Nuclear Chemistry Division (LANL)
COAST	Coastal Science Laboratories, Austin, TX
CST	Chemical Sciences and Technology Division (LANL)
EES6	Hydrology, Geochemistry, and Geology Group (LANL)
ESE	Environmental Sciences & Engineering, Inc., Gainesville, FL
FLD	measurement taken in field
GEL	General Engineering Laboratories, Inc.

**Acronyms and Abbreviations (continued)**

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

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

### Analytical Laboratory Qualifier Codes

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

### Analytical Laboratory Qualifier Codes (continued)

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

**Analytical Laboratory Qualifier Codes (continued)**

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

**Secondary Validation Flag Codes**

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

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.67	—	—	0.01	SU	Y	H	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.8	—	—	0.01	SU	Y	H	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.1	—	—	0.01	SU	Y	H	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.78	—	—	0.01	SU	Y	H	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	J-	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.76	—	—	0.01	SU	Y	H	J-	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	49.6	—	—	0.725	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.1	—	—	0.725	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.9	—	—	0.725	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.6	—	—	0.725	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.4	—	—	0.73	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.9	—	—	0.73	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00395	0.0153	0.0462	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00804	0.00804	0.0471	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00312	0.0054	0.0625	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00475	0.00475	0.0311	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00184	0.013	0.044	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0043	0.036	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0535	—	—	0.017	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0694	—	—	0.017	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0582	—	—	0.017	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0494	—	—	0.017	mg/L	Y	J	U	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0387	—	—	0.016	mg/L	Y	J	J	12-711	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	15.9	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	16	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	17.4	—	—	1	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.5	—	—	1	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.2	—	—	1	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.6	—	—	1	µg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.78	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.83	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.1	—	—	0.05	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.11	1.3	5.16	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.165	1.33	4.76	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.25	1.95	6.39	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.946	1.4	5.16	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.66	1.4	4.6	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.56	1.5	4.3	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.68	—	—	0.067	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.71	—	—	0.067	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.79	—	—	0.066	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.76	—	—	0.066	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.44	1.32	4.53	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.65	1.25	3.74	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.47	2.01	5.03	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0356	1.38	4.48	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.00898	1.1	4.3	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.713	1.5	5	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.149	—	—	0.033	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.155	—	—	0.033	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.179	—	—	0.033	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.248	—	—	0.033	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.248	—	—	0.033	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.254	—	—	0.033	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.71	0.774	2.23	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.211	0.655	2.3	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.49	0.53	2.43	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.09	0.881	2.36	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0212	0.28	1.7	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.912	0.61	2	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2	0.6	1.76	—	pCi/L	Y	—	NQ	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.984	0.854	2.88	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10	0.506	1.15	—	pCi/L	Y	—	NQ	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.92	0.688	2.32	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.152	0.53	2.1	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.779	0.73	2.5	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.8	—	—	0.453	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36	—	—	0.453	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.3	—	—	0.453	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.2	—	—	0.453	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.3	—	—	0.45	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.2	—	—	0.45	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.75	—	—	0.11	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.29	—	—	0.11	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.82	—	—	0.11	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.03	—	—	0.11	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.95	—	—	0.11	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	9.62	—	—	2	µg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Manganese	Mn	Y	9.69	—	—	2	µg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	16.1	—	—	2	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	11.9	—	—	2	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	16.9	—	—	2	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	23.6	—	—	2	µg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.44	—	—	0.165	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.39	—	—	0.165	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.57	—	—	0.165	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.99	—	—	0.165	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.34	—	—	0.17	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.96	—	—	0.17	µg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.45	2.49	8.98	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.665	2.66	9.44	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.53	3.01	11.8	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.398	3.27	9.68	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.29	2.5	8.8	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.93	2.9	9.8	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC



Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.737	—	—	0.5	µg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.708	—	—	0.5	µg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.942	—	—	0.5	µg/L	Y	J	J	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.39	—	—	0.5	µg/L	Y	J	U	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.04	—	—	0.5	µg/L	Y	J	J	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.24	—	—	0.5	µg/L	Y	J	J	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.291	—	—	0.017	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.296	—	—	0.017	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.77	—	—	0.017	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.284	—	—	0.017	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.299	—	—	0.05	mg/L	Y	—	NQ	12-711	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.278	—	—	0.05	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.209	—	—	0.05	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.208	—	—	0.05	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.227	—	—	0.05	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.233	—	—	0.05	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.24	—	—	0.05	µg/L	Y	—	J+	11-3681	CAAN-11-27011	GELC
R-29	1170	06/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.236	—	—	0.05	µg/L	Y	—	NQ	11-2645	CAAN-11-13956	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0132	0.00937	0.04	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00658	0.0397	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00999	0.0455	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0051	0.0328	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0044	0.028	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00177	0.0064	0.018	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00662	0.00662	0.0696	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00329	0.0087	0.0691	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00706	0.00999	0.104	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00721	0.0364	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0022	0.0038	0.032	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00177	0.0031	0.034	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.14	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.12	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.29	—	—	0.05	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.21	—	—	0.05	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.37	—	—	0.05	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.33	—	—	0.05	mg/L	Y	—	J	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.9	15.6	56.3	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	0.8	15	59.6	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	22.7	21.2	89.8	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-2.12	15.6	54.6	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.6	15	53	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.17	17	58	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	60.2	—	—	0.053	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	60.6	—	—	0.053	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63	—	—	0.053	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63.8	—	—	0.053	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.8	—	—	0.053	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	64.4	—	—	0.053	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.3	—	—	0.1	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14	—	—	0.1	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.7	—	—	0.1	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.05	1.16	3.74	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.07	1.06	4.42	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.91	1.48	4.8	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.83	1.49	4.03	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.43	1.4	4.7	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.31	1.5	4.7	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	µS/cm	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	1	µS/cm	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	µS/cm	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	µS/cm	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	µS/cm	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.1	—	—	1	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	64.4	—	—	1	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	71.2	—	—	1	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	69.2	—	—	1	µg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.301	0.113	0.484	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.141	0.137	0.475	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.000552	0.126	0.475	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0829	0.14	0.484	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.129	0.15	0.49	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00329	0.14	0.48	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.85	—	—	0.133	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.84	—	—	0.133	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.28	—	—	0.133	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.84	—	—	0.133	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.76	—	—	0.1	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.45	—	—	0.1	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	113	—	—	3.4	mg/L	Y	H	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	RE	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	94.3	—	—	3.4	mg/L	Y	H	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	413	—	—	3.4	mg/L	N	—	R	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	223	—	—	3.4	mg/L	N	—	R	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	J	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0263	—	—	0.017	mg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0394	—	—	0.017	mg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0574	—	—	0.017	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	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	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0477	—	—	0.015	mg/L	Y	J	J	12-711	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0434	—	—	0.015	mg/L	Y	J	U	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.879	0.653	2.116	—	pCi/L	Y	U	U	2014-4232	CAAN-14-84628	ARSL
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.682	0.657	2.161	—	pCi/L	Y	U	U	2014-4232	CAAN-14-84625	ARSL
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.656	0.495	1.603	—	pCi/L	Y	U	U	2014-2980	CAAN-14-54788	ARSL
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.947	0.742	2.186	—	pCi/L	Y	U	U	2013-615	CAAN-13-28901	ARSL

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.06	0.61	1.92	—	pCi/L	Y	U	U	12-714	CAAN-12-2024	ARSL
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.24	0.66	2.27	—	pCi/L	Y	U	U	11-3673	CAAN-11-27010	ARSL
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.381	—	—	0.067	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.434	—	—	0.067	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.543	—	—	0.067	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.451	—	—	0.067	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.484	—	—	0.067	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.545	—	—	0.067	µg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.255	0.027	0.0631	—	pCi/L	Y	—	J	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.339	0.0354	0.0865	—	pCi/L	Y	—	NQ	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.271	0.0345	0.0652	—	pCi/L	Y	—	NQ	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.28	0.0283	0.0613	—	pCi/L	Y	—	J	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.279	0.032	0.049	—	pCi/L	Y	—	NQ	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.348	0.04	0.05	—	pCi/L	Y	—	NQ	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0284	0.0105	0.038	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00863	0.00863	0.052	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00486	0.00842	0.0622	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0131	0.00805	0.0356	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0212	0.0076	0.026	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0168	0.0076	0.036	—	pCi/L	Y	U	U	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.112	0.018	0.0563	—	pCi/L	Y	—	J	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.161	0.0247	0.0772	—	pCi/L	Y	—	NQ	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.173	0.0267	0.0609	—	pCi/L	Y	—	NQ	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.176	0.0223	0.0332	—	pCi/L	Y	—	J	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.187	0.024	0.037	—	pCi/L	Y	—	NQ	12-712	CAAN-12-2024	GELC
R-29	1170	09/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.193	0.027	0.043	—	pCi/L	Y	—	NQ	11-3681	CAAN-11-27010	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.91	—	—	1	µg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.8	—	—	1	µg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.58	—	—	1	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.6	—	—	1	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.87	—	—	1	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.3	—	—	1	µg/L	Y	—	NQ	11-3681	CAAN-11-27011	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.75	—	—	0.01	SU	Y	H	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	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	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	J-	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	J-	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.66	—	—	0.01	SU	Y	H	J-	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	48.7	—	—	0.725	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.3	—	—	0.725	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.5	—	—	0.725	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.8	—	—	0.725	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.9	—	—	0.73	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.9	—	—	0.73	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.3	—	—	0.73	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00365	0.0121	0.0428	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00853	0.00603	0.0427	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00724	0.00639	0.0317	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00248	0.00657	0.0325	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0021	0.0056	0.043	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00361	0.0036	0.073	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00872	0.0046	0.029	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0249	—	—	0.017	mg/L	Y	J	J	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0874	—	—	0.017	mg/L	Y	—	U	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0328	—	—	0.017	mg/L	Y	J	U	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-700	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-700	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.9	—	—	1.7	µg/L	Y	J	J	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.12	—	—	1.7	µg/L	Y	J	J	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.5	—	—	1	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.6	—	—	1	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.2	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.7	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.7	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.5	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.5	—	—	1	µg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.52	—	—	0.05	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.34	—	—	0.05	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.72	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.36	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10	—	—	0.05	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10	—	—	0.05	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.3	—	—	0.05	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.61	1.48	4.26	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.31	1.48	5.84	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.727	1.44	4.19	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.7	1.34	4.56	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.623	1.3	4.6	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.9	1.3	5	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.91	1.9	5.5	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.59	—	—	0.067	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.63	—	—	0.067	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.63	—	—	0.067	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.62	—	—	0.067	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.61	—	—	0.066	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.6	—	—	0.066	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.56	—	—	0.066	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.07	—	—	2	µg/L	Y	J	J	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.22	—	—	2	µg/L	Y	J	J	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.76	—	—	2	µg/L	Y	J	J	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.64	—	—	2	µg/L	Y	J	J	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.98	—	—	2	µg/L	Y	J	J	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.51	—	—	2	µg/L	Y	J	J	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-3588	CAAN-11-27017	GELC

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.5	1.33	5.42	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.65	1.28	6.07	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.158	1.22	4.45	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.737	1.44	4.74	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.529	1.2	4.5	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.747	1.3	4.6	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.756	1.5	4.6	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.179	—	—	0.033	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.19	—	—	0.033	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.253	—	—	0.033	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.246	—	—	0.033	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.245	—	—	0.033	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.246	—	—	0.033	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.259	—	—	0.033	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.1	0.75	2.94	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.29	0.418	1.99	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.29	0.62	1.63	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.35	0.678	1.86	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.63	0.69	1.6	—	pCi/L	Y	—	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.191	0.41	1.9	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0739	0.38	2.1	—	pCi/L	Y	U	UJ	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.27	0.951	2.82	—	pCi/L	Y	—	NQ	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.862	0.601	1.99	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.13	0.71	2.34	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.85	0.659	2.24	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.426	0.63	2.3	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.251	0.63	2.3	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.69	1	3.4	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.9	—	—	0.453	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.4	—	—	0.453	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.8	—	—	0.453	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.4	—	—	0.453	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.7	—	—	0.45	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.5	—	—	0.45	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.3	—	—	0.45	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.95	—	—	0.11	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.93	—	—	0.11	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.93	—	—	0.11	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.06	—	—	0.11	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.06	—	—	0.11	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04	—	—	0.165	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.16	—	—	0.165	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.37	—	—	0.165	µg/L	Y	—	U	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.27	—	—	0.165	µg/L	Y	—	U	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.17	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.17	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.33	—	—	0.17	µg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.87	2.83	9.66	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0315	2.7	9.71	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.554	2.58	9.24	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	2	2.64	9.46	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.37	2.9	9.9	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.04	2.9	9.1	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.74	2.8	9	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	—	—	0.017	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.31	—	—	0.017	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.307	—	—	0.017	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.304	—	—	0.017	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.304	—	—	0.05	mg/L	Y	—	NQ	12-700	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.304	—	—	0.05	mg/L	Y	—	NQ	12-700	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.29	—	—	0.05	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.216	—	—	0.05	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.23	—	—	0.05	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.24	—	—	0.05	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.238	—	—	0.05	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.243	—	—	0.05	µg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	06/15/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.234	—	—	0.05	µg/L	Y	—	NQ	11-2670	CAAN-11-13958	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00598	0.0511	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00299	0.00518	0.0385	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00545	0.00545	0.0351	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00262	0.00454	0.0338	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00847	0.01	0.036	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00913	0.012	0.038	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00571	0.0057	0.029	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00422	0.014	0.0888	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00598	0.00598	0.0878	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00545	0.00545	0.039	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0083	0.0375	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00304	0.0053	0.045	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00565	0.0057	0.042	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00285	0.0076	0.055	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.2	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.18	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.22	—	—	0.05	mg/L	Y	—	J	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.23	—	—	0.05	mg/L	Y	—	J	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.11	—	—	0.05	mg/L	Y	—	J	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	9.89	18.8	49.6	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	35.7	19.2	64	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.36	14.3	53.5	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	13.5	17.4	42.7	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-0.0833	18	69	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.52	18	71	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-41.1	17	49	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.4	—	—	0.053	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.2	—	—	0.053	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.2	—	—	0.053	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67	—	—	0.053	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.8	—	—	0.053	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC

Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.8	—	—	0.053	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.4	—	—	0.053	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.68	1.45	4.97	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.565	1.33	5.5	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.32	1.84	4.55	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.81	1.61	4.38	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.55	1.6	5.3	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.793	1.2	5	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.26	1.7	6	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	1	µS/cm	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	118	—	—	1	µS/cm	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	µS/cm	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46.8	—	—	1	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.1	—	—	1	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.4	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.9	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.3	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.5	—	—	1	µg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.228	0.11	0.455	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.357	0.146	0.452	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0106	0.138	0.482	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0328	0.0661	0.224	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.362	0.15	0.49	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.167	0.098	0.42	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00357	0.13	0.48	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.55	—	—	0.133	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.51	—	—	0.133	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.76	—	—	0.133	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.58	—	—	0.133	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.87	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.9	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.02	—	—	0.1	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	3.4	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	82.9	—	—	3.4	mg/L	Y	—	J	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	J	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	116	—	—	3.4	mg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC



Table C-1 MDA AB Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	08/11/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.395	—	—	0.33	mg/L	Y	J	J	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.701	—	—	0.33	mg/L	Y	J	J	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.78	—	—	0.33	mg/L	Y	J	J	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.706	—	—	0.33	mg/L	Y	J	J	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.359	—	—	0.33	mg/L	Y	J	J	12-700	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.349	—	—	0.33	mg/L	Y	J	J	12-700	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.689	—	—	0.33	mg/L	Y	J	J	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.912	0.779	2.328	—	pCi/L	Y	U	U	2014-4343	CAAN-14-84629	ARSL
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.39	0.64	2.142	—	pCi/L	Y	U	U	2014-2942	CAAN-14-54789	ARSL
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.09	0.672	2.141	—	pCi/L	Y	U	U	2013-615	CAAN-13-28897	ARSL
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.006	0.785	2.688	—	pCi/L	Y	U	U	2013-615	CAAN-13-28902	ARSL
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.97	0.65	2.1	—	pCi/L	Y	U	U	12-697	CAAN-12-2031	ARSL
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.37	0.64	2.15	—	pCi/L	Y	U	U	12-697	CAAN-12-2199	ARSL
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0644	0.7084	2.3506	—	pCi/L	Y	U	U	11-3585	CAAN-11-27018	ARSL
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.41	—	—	0.067	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.501	—	—	0.067	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.506	—	—	0.067	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.506	—	—	0.067	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.526	—	—	0.067	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.527	—	—	0.067	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.515	—	—	0.067	µg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.264	0.0289	0.0695	—	pCi/L	Y	—	NQ	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.318	0.0301	0.0435	—	pCi/L	Y	—	NQ	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.326	0.0315	0.064	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.308	0.0298	0.0625	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.263	0.035	0.072	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.249	0.038	0.09	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2031	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.287	0.035	0.05	—	pCi/L	Y	—	NQ	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.011	0.0418	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0162	0.00859	0.0415	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00343	0.00767	0.0371	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00335	0.00581	0.0363	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00483	0.0048	0.048	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0193	0.0087	0.038	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00342	0.0034	0.036	—	pCi/L	Y	U	U	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.146	0.0224	0.062	—	pCi/L	Y	—	NQ	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.152	0.021	0.0407	—	pCi/L	Y	—	NQ	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.205	0.0248	0.0346	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.16	0.0212	0.0339	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.211	0.032	0.068	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.147	0.025	0.054	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2199	GELC
R-30	1140	09/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.133	0.023	0.043	—	pCi/L	Y	—	NQ	11-3588	CAAN-11-27018	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.4	—	—	1	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.84	—	—	1	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.13	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.76	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.51	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.74	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.97	—	—	1	µg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC



Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Acenaphthene	83-32-9	N	0.515	—	—	0.155	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Acenaphthene	83-32-9	Y	0.585	—	—	0.158	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Acenaphthene	83-32-9	N	0.526	—	—	0.158	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Acenaphthene	83-32-9	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Acenaphthene	83-32-9	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Acenaphthene	83-32-9	N	1.11	—	—	0.34	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Acenaphthylene	208-96-8	N	0.515	—	—	0.155	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Acenaphthylene	208-96-8	Y	0.55	—	—	0.158	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Acenaphthylene	208-96-8	N	0.526	—	—	0.158	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Acenaphthylene	208-96-8	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Acenaphthylene	208-96-8	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Acenaphthylene	208-96-8	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.9	—	—	0.01	SU	Y	H	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	J-	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	J-	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.5	—	—	0.725	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.1	—	—	0.725	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.9	—	—	0.73	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.1	—	—	0.73	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0058	0.00916	0.0412	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00707	0.00782	0.0309	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0021	0.0047	0.043	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00548	0.0038	0.045	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Anthracene	120-12-7	N	0.515	—	—	0.155	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Anthracene	120-12-7	Y	0.756	—	—	0.158	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Anthracene	120-12-7	N	0.526	—	—	0.158	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Anthracene	120-12-7	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Anthracene	120-12-7	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Anthracene	120-12-7	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	26.7	—	—	1	µg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.1	—	—	1	µg/L	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.2	—	—	1	µg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	27.5	—	—	1	µg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.9	—	—	1	µg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Benzo(a)anthracene	56-55-3	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(a)anthracene	56-55-3	Y	0.0594	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(a)anthracene	56-55-3	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)anthracene	56-55-3	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)anthracene	56-55-3	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)anthracene	56-55-3	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Benzo(a)pyrene	50-32-8	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(a)pyrene	50-32-8	Y	0.0578	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(a)pyrene	50-32-8	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)pyrene	50-32-8	N	1	—	—	0.44	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)pyrene	50-32-8	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(a)pyrene	50-32-8	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Benzo(b)fluoranthene	205-99-2	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(b)fluoranthene	205-99-2	Y	0.0545	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(b)fluoranthene	205-99-2	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(b)fluoranthene	205-99-2	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(b)fluoranthene	205-99-2	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(b)fluoranthene	205-99-2	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Benzo(g,h,i)perylene	191-24-2	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(g,h,i)perylene	191-24-2	Y	0.0531	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(g,h,i)perylene	191-24-2	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(g,h,i)perylene	191-24-2	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(g,h,i)perylene	191-24-2	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(g,h,i)perylene	191-24-2	N	1.11	—	—	0.22	µg/L	Y	U	UJ	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	N	0.0258	—	—	0.008	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	Y	0.0321	—	—	0.008	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	N	0.0263	—	—	0.008	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.3	—	—	0.05	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.9	—	—	0.05	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.4	—	—	0.05	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.12	1.25	4.72	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.12	1.24	3.54	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.8	1.4	4.8	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.428	1.3	4.4	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.52	—	—	0.067	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.62	—	—	0.067	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.56	—	—	0.066	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.64	—	—	0.066	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Chrysene	218-01-9	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Chrysene	218-01-9	Y	0.0607	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Chrysene	218-01-9	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Chrysene	218-01-9	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Chrysene	218-01-9	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Chrysene	218-01-9	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.39	1.26	5.64	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.297	1.07	4.2	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.998	1.3	5	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0674	1.4	4.5	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Dibenz(a,h)anthracene	53-70-3	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Dibenz(a,h)anthracene	53-70-3	Y	0.0644	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Dibenz(a,h)anthracene	53-70-3	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dibenz(a,h)anthracene	53-70-3	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dibenz(a,h)anthracene	53-70-3	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dibenz(a,h)anthracene	53-70-3	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Fluoranthene	206-44-0	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Fluoranthene	206-44-0	Y	0.0526	—	—	0.017	µg/L	N	U	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Fluoranthene	206-44-0	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Fluorene	86-73-7	N	0.515	—	—	0.155	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Fluorene	86-73-7	Y	0.587	—	—	0.158	µg/L	Y	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Fluorene	86-73-7	N	0.526	—	—	0.158	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluorene	86-73-7	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluorene	86-73-7	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluorene	86-73-7	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.192	—	—	0.033	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.235	—	—	0.033	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.217	—	—	0.033	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.235	—	—	0.033	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.42	0.821	2.68	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.54	0.743	2.07	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.508	0.52	2.7	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.935	0.68	2.2	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.161	0.753	2.64	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.48	0.878	2.35	—	pCi/L	Y	—	NQ	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.715	0.54	2.3	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.0283	0.67	2.5	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.4	—	—	0.453	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.9	—	—	0.453	mg/L	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.5	—	—	0.453	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.3	—	—	0.45	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.5	—	—	0.45	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Indeno(1,2,3-cd)pyrene	193-39-5	Y	0.0555	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	Y	0.4	—	—	0.22	µg/L	Y	J	J	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.05	—	—	0.11	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.97	—	—	0.11	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.18	—	—	0.11	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.02	—	—	0.11	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Methylnaphthalene[1-]	90-12-0	N	0.515	—	—	0.225	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Methylnaphthalene[1-]	90-12-0	Y	0.585	—	—	0.229	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Methylnaphthalene[1-]	90-12-0	N	0.526	—	—	0.229	µg/L	Y	U	UJ	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Methylnaphthalene[1-]	90-12-0	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Methylnaphthalene[1-]	90-12-0	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Methylnaphthalene[1-]	90-12-0	N	1.11	—	—	0.33	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Methylnaphthalene[2-]	91-57-6	N	0.515	—	—	0.155	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Methylnaphthalene[2-]	91-57-6	Y	0.526	—	—	0.158	µg/L	N	U	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Methylnaphthalene[2-]	91-57-6	N	0.526	—	—	0.158	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Methylnaphthalene[2-]	91-57-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Methylnaphthalene[2-]	91-57-6	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Methylnaphthalene[2-]	91-57-6	N	1.11	—	—	0.33	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.03	—	—	0.165	µg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.922	—	—	0.165	µg/L	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.16	—	—	0.165	µg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.17	µg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.973	—	—	0.17	µg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Naphthalene	91-20-3	N	0.515	—	—	0.155	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Naphthalene	91-20-3	Y	0.538	—	—	0.158	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	Y	1	—	—	0.4	µg/L	N	U	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.4	µg/L	Y	UH	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Naphthalene	91-20-3	N	0.526	—	—	0.158	µg/L	Y	U	UJ	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.4	µg/L	Y	U	UJ	2013-605	CAWA-13-28880	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.25	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	04/04/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.25	µg/L	Y	U	U	11-1904	CAWA-11-5100	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.51	3.4	12.1	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.27	2.33	7.67	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.67	2.4	8.1	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.0686	2.6	8.4	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.285	—	—	0.017	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	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	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.295	—	—	0.05	mg/L	Y	—	NQ	12-726	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.0289	—	—	0.01	mg/L	Y	J	U	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.197	—	—	0.05	µg/L	Y	J	J	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.203	—	—	0.05	µg/L	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	02/03/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.211	—	—	0.05	µg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.235	—	—	0.05	µg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	09/14/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.228	—	—	0.05	µg/L	Y	—	NQ	10-4588	CAWA-10-25889	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Phenanthrene	85-01-8	N	0.515	—	—	0.188	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Phenanthrene	85-01-8	Y	0.621	—	—	0.192	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Phenanthrene	85-01-8	N	0.526	—	—	0.192	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Phenanthrene	85-01-8	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Phenanthrene	85-01-8	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Phenanthrene	85-01-8	N	1.11	—	—	0.22	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00706	0.00623	0.0414	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00687	0.00944	0.0295	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0155	0.0068	0.033	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0028	0.031	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0118	0.00706	0.0465	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00687	0.00606	0.0327	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00776	0.011	0.038	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0057	0.046	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.21	—	—	0.05	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.29	—	—	0.05	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.49	—	—	0.05	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.34	—	—	0.05	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	32.8	21.9	56.7	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.8	20.3	42.2	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.4	18	61	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.9	20	78	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	RE	REG	SVOC	SW-846:8310	Pyrene	129-00-0	N	0.0515	—	—	0.017	µg/L	Y	U	UJ	2015-772	CAWA-15-91341	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	SVOC	SW-846:8310	Pyrene	129-00-0	Y	0.0632	—	—	0.017	µg/L	N	—	R	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Pyrene	129-00-0	N	0.0526	—	—	0.017	µg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1	—	—	0.3	µg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1.08	—	—	0.32	µg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1.11	—	—	0.33	µg/L	Y	U	U	10-4587	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.5	—	—	0.053	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.2	—	—	0.053	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.8	—	—	0.053	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.6	—	—	0.053	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.76	—	—	0.1	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.67	—	—	0.1	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.03	1.47	5.27	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.313	1.28	4.56	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.324	1	3.9	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.1	1.3	5.3	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	111	—	—	3.63	µS/cm	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	1	µS/cm	Y	—	NQ	2013-605	CAWA-13-28882	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	1	µS/cm	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	µS/cm	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.7	—	—	1	µg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.6	—	—	1	µg/L	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.9	—	—	1	µg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52.3	—	—	1	µg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.4	—	—	1	µg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.206	0.089	0.364	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.167	0.0839	0.295	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0467	0.14	0.48	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.283	0.15	0.46	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.29	—	—	0.133	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.44	—	—	0.133	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.49	—	—	0.1	mg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.6	—	—	0.1	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	82.9	—	—	3.4	mg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	121	—	—	3.4	mg/L	Y	—	J	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	122	—	—	2.4	mg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.255	—	—	0.033	mg/L	Y	—	J	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2960	CAWA-14-54782	GELC
R-27	852	03/11/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	04/04/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.5	—	—	0.18	mg/L	Y	U	UJ	11-1904	CAWA-11-5100	GELC
R-27	852	02/06/15	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
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.859	—	—	0.33	mg/L	Y	J	J	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	12-726	CAWA-12-2023	GELC
R-27	852	04/04/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.423	—	—	0.33	mg/L	Y	J	J	11-1904	CAWA-11-5100	GELC
R-27	852	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0266	—	—	0.017	mg/L	Y	J	J	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.197	—	—	0.017	mg/L	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	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	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0564	—	—	0.015	mg/L	Y	—	NQ	12-726	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.087	0.746	2.157	—	pCi/L	Y	U	U	2015-789	CAWA-15-91341	ARSL
R-27	852	03/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.038	0.646	2.061	—	pCi/L	Y	U	U	2014-2979	CAWA-14-54782	ARSL
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.601	0.645	2.214	—	pCi/L	Y	U	U	2013-614	CAWA-13-28880	ARSL
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.7	0.6	1.97	—	pCi/L	Y	U	U	12-728	CAWA-12-2023	ARSL
R-27	852	09/14/10	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.127	0.7084	2.2218	—	pCi/L	Y	U	U	10-4590	CAWA-10-25888	ARSL
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	3.3488	0.8694	2.2218	—	pCi/L	N	—	R	10-4590	CAWA-10-25888	ARSL
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.511	—	—	0.067	µg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.501	—	—	0.067	µg/L	Y	—	NQ	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.524	—	—	0.067	µg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.477	—	—	0.067	µg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.521	—	—	0.067	µg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.331	0.0278	0.102	—	pCi/L	Y	—	NQ	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.283	0.0284	0.0577	—	pCi/L	Y	—	NQ	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.284	0.032	0.056	—	pCi/L	Y	—	NQ	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.275	0.03	0.053	—	pCi/L	Y	—	NQ	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0428	0.0114	0.0454	—	pCi/L	Y	U	U	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0155	0.00928	0.0335	—	pCi/L	Y	U	U	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.012	0.0074	0.029	—	pCi/L	Y	U	U	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0145	0.006	0.027	—	pCi/L	Y	U	U	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.171	0.0204	0.0427	—	pCi/L	Y	—	NQ	2015-772	CAWA-15-91341	GELC
R-27	852	03/07/14	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
R-27	852	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.163	0.0208	0.0312	—	pCi/L	Y	—	NQ	2013-605	CAWA-13-28880	GELC
R-27	852	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.172	0.023	0.042	—	pCi/L	Y	—	NQ	12-727	CAWA-12-2023	GELC
R-27	852	09/14/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.16	0.022	0.023	—	pCi/L	Y	—	NQ	10-4589	CAWA-10-25888	GELC
R-27	852	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.39	—	—	1	µg/L	Y	—	NQ	2015-772	CAWA-15-91368	GELC
R-27	852	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.83	—	—	1	µg/L	Y	J	J	2014-2960	CAWA-14-54784	GELC
R-27	852	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.12	—	—	1	µg/L	Y	—	NQ	2013-605	CAWA-13-28882	GELC
R-27	852	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.76	—	—	1	µg/L	Y	—	NQ	12-727	CAWA-12-2022	GELC
R-27	852	04/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.05	—	—	1	µg/L	Y	—	NQ	11-1904	CAWA-11-5101	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.81	—	—	0.01	SU	Y	H	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	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	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.31	—	—	0.01	SU	Y	H	J-	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.36	—	—	0.01	SU	Y	H	J-	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	47.5	—	—	0.725	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	47.9	—	—	0.725	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	49.1	—	—	0.73	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.8	—	—	0.73	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00606	0.0352	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00954	0.00826	0.0313	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00483	0.0034	0.049	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00245	0.0054	0.026	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	9.35	—	—	1	µg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.27	—	—	1	µg/L	Y	—	NQ	2014-2960	CAWA-14-54785	GELC
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.69	—	—	1	µg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.4	—	—	1	µg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	10.1	—	—	1	µg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.79	—	—	0.05	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.38	—	—	0.05	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.83	—	—	0.05	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.67	—	—	0.05	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	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



Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.826	2.2	6.52	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.82	1.6	5.4	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.53	1.6	4.3	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.28	—	—	0.067	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.36	—	—	0.067	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.79	—	—	0.066	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.33	—	—	0.066	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.778	1.16	4.98	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.45	2.43	7.75	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.861	1.4	5.6	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.986	1.8	6.2	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.171	—	—	0.033	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.206	—	—	0.033	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.219	—	—	0.033	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.167	—	—	0.033	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.474	0.791	2.92	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.961	0.623	2.01	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.02	0.68	2.2	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.2	0.76	2.3	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.716	0.806	2.74	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.713	0.68	2.36	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.426	0.63	2.3	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.237	0.76	2.8	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.2	—	—	0.453	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	29.7	—	—	0.453	mg/L	Y	—	NQ	2014-2960	CAWA-14-54785	GELC
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	30.9	—	—	0.453	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.3	—	—	0.45	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.9	—	—	0.45	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.5	—	—	0.11	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.42	—	—	0.11	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.5	—	—	0.11	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.5	—	—	0.11	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54	—	—	0.165	µg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.59	—	—	0.165	µg/L	Y	—	NQ	2014-2960	CAWA-14-54785	GELC
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.7	—	—	0.165	µg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.57	—	—	0.17	µg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.63	—	—	0.17	µg/L	Y	—	J	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.967	3.07	10.9	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.11	4.71	15	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC



Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.1	3.3	12	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	04/04/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.387	2.9	9.8	—	pCi/L	Y	U	U	11-1909	CAWA-11-5320	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.107	—	—	0.017	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0955	—	—	0.017	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.09	—	—	0.05	mg/L	Y	J	J	12-718	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.112	—	—	0.05	µg/L	Y	J	J	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.117	—	—	0.05	µg/L	Y	J	J	2014-2960	CAWA-14-54785	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.123	—	—	0.05	µg/L	Y	J	J	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.127	—	—	0.05	µg/L	Y	J	J	11-2716	CAWA-11-13981	GELC
R-27i	619	04/04/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.13	—	—	0.05	µg/L	Y	J	J	11-1909	CAWA-11-5321	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00593	0.0369	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00257	0.00446	0.0332	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00615	0.0044	0.039	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0046	0.0056	0.028	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00629	0.00629	0.0414	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00257	0.00575	0.0368	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0184	0.0087	0.045	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0069	0.0052	0.042	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.673	—	—	0.05	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.8	—	—	0.05	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.938	—	—	0.05	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.92	—	—	0.05	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	34.8	28.6	64.2	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.3	24.2	75.9	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.1	18	71	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-9.41	16	58	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	66.6	—	—	0.053	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.3	—	—	0.053	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.8	—	—	0.053	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.76	—	—	0.1	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.59	—	—	0.1	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.18	1.5	5.52	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	6.36	2.18	8.13	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.566	1.5	5.6	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.193	1.4	4.6	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	97.3	—	—	3.63	µS/cm	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	103	—	—	1	µS/cm	Y	—	NQ	2014-2960	CAWA-14-54785	GELC
R-27i	619	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	103	—	—	1	µS/cm	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	104	—	—	1	µS/cm	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	101	—	—	1	µS/cm	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46.8	—	—	1	µg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.7	—	—	1	µg/L	Y	—	NQ	2014-2960	CAWA-14-54785	GELC
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.9	—	—	1	µg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.7	—	—	1	µg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.8	—	—	1	µg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.135	0.139	0.477	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.373	0.134	0.476	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0556	0.14	0.48	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.234	0.15	0.49	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.74	—	—	0.133	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.85	—	—	0.133	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.95	—	—	0.1	mg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.1	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	82.9	—	—	3.4	mg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	J	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	2.4	mg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.527	—	—	0.033	mg/L	Y	—	J	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2960	CAWA-14-54783	GELC
R-27i	619	03/11/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.5	—	—	0.18	mg/L	Y	U	UJ	12-718	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.404	—	—	0.33	mg/L	Y	J	J	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.631	—	—	0.33	mg/L	Y	J	J	2014-2960	CAWA-14-54783	GELC
R-27i	619	03/11/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.78	—	—	0.33	mg/L	Y	J	J	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.473	—	—	0.33	mg/L	Y	J	J	12-718	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.833	0.666	2.17	—	pCi/L	Y	U	U	2015-789	CAWA-15-91342	ARSL
R-27i	619	03/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.594	0.66	2.262	—	pCi/L	Y	U	U	2014-2979	CAWA-14-54783	ARSL
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.128	0.714	2.282	—	pCi/L	Y	U	U	2013-614	CAWA-13-28881	ARSL
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.83	0.6	1.93	—	pCi/L	Y	U	U	12-721	CAWA-12-2018	ARSL
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.288	0.8372	2.8014	—	pCi/L	Y	U	U	11-2729	CAWA-11-13980	ARSL
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.249	—	—	0.067	µg/L	Y	—	NQ	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.25	—	—	0.067	µg/L	Y	—	U	2014-2960	CAWA-14-54785	GELC
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.269	—	—	0.067	µg/L	Y	—	NQ	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.24	—	—	0.067	µg/L	Y	—	NQ	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.263	—	—	0.067	µg/L	Y	—	NQ	11-2716	CAWA-11-13981	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.193	0.0205	0.0916	—	pCi/L	Y	—	NQ	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.152	0.0233	0.0717	—	pCi/L	Y	—	J	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.139	0.022	0.05	—	pCi/L	Y	—	NQ	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.165	0.029	0.096	—	pCi/L	Y	—	NQ	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00723	0.00799	0.0409	—	pCi/L	Y	U	U	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00769	0.0122	0.0416	—	pCi/L	Y	U	U	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00807	0.0047	0.027	—	pCi/L	Y	U	U	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00859	0.0061	0.055	—	pCi/L	Y	U	U	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0877	0.0139	0.0385	—	pCi/L	Y	—	J	2015-772	CAWA-15-91342	GELC
R-27i	619	03/07/14	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
R-27i	619	03/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.103	0.0194	0.0388	—	pCi/L	Y	—	J	2013-604	CAWA-13-28881	GELC
R-27i	619	02/03/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0827	0.015	0.038	—	pCi/L	Y	—	NQ	12-719	CAWA-12-2018	GELC
R-27i	619	06/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0904	0.021	0.043	—	pCi/L	Y	—	NQ	11-2716	CAWA-11-13980	GELC
R-27i	619	02/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.62	—	—	1	µg/L	Y	J	J	2015-772	CAWA-15-91369	GELC
R-27i	619	03/07/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2014-2960	CAWA-14-54785	GELC
R-27i	619	03/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2013-604	CAWA-13-28883	GELC
R-27i	619	02/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.91	—	—	1	µg/L	Y	J	J	12-719	CAWA-12-2019	GELC
R-27i	619	06/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.43	—	—	1	µg/L	Y	J	J	11-2716	CAWA-11-13981	GELC
R-29	1170	03/09/15	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	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.67	—	—	0.01	SU	Y	H	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.8	—	—	0.01	SU	Y	H	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.1	—	—	0.01	SU	Y	H	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.78	—	—	0.01	SU	Y	H	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	J-	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.3	—	—	0.725	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	49.6	—	—	0.725	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.1	—	—	0.725	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.9	—	—	0.725	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55.6	—	—	0.725	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.4	—	—	0.73	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.013	0.00934	0.0435	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00395	0.0153	0.0462	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00804	0.00804	0.0471	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00312	0.0054	0.0625	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00475	0.00475	0.0311	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00184	0.013	0.044	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	17.2	—	—	1	µg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	15.9	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	16	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	17.4	—	—	1	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.5	—	—	1	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.2	—	—	1	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.4	—	—	0.05	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.78	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.83	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.1	—	—	0.05	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.89	1.44	4.64	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.11	1.3	5.16	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.165	1.33	4.76	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.25	1.95	6.39	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.946	1.4	5.16	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.66	1.4	4.6	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.69	—	—	0.067	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.68	—	—	0.067	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.71	—	—	0.067	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.79	—	—	0.066	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.17	—	—	1	µg/L	Y	J	J	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.42	—	—	1	µg/L	Y	J	J	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.06	1.21	5.27	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.44	1.32	4.53	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.65	1.25	3.74	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.47	2.01	5.03	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0356	1.38	4.48	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.00898	1.1	4.3	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.215	—	—	0.033	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.149	—	—	0.033	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.155	—	—	0.033	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.179	—	—	0.033	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.248	—	—	0.033	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.248	—	—	0.033	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.272	0.327	1.2	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.71	0.774	2.23	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.211	0.655	2.3	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.49	0.53	2.43	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.09	0.881	2.36	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0212	0.28	1.7	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.853	0.33	1.06	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2	0.6	1.76	—	pCi/L	Y	—	NQ	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.984	0.854	2.88	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10	0.506	1.15	—	pCi/L	Y	—	NQ	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.92	0.688	2.32	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.152	0.53	2.1	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.7	—	—	0.453	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.8	—	—	0.453	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36	—	—	0.453	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.3	—	—	0.453	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.2	—	—	0.453	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.3	—	—	0.45	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.85	—	—	0.11	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.75	—	—	0.11	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.29	—	—	0.11	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.82	—	—	0.11	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.03	—	—	0.11	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	6.91	—	—	2	µg/L	Y	J	J	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	9.62	—	—	2	µg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Manganese	Mn	Y	9.69	—	—	2	µg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	16.1	—	—	2	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	11.9	—	—	2	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	16.9	—	—	2	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.49	—	—	0.165	µg/L	Y	—	J	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.44	—	—	0.165	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.39	—	—	0.165	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.57	—	—	0.165	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.99	—	—	0.165	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.34	—	—	0.17	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.26	2.22	7.67	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.45	2.49	8.98	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.665	2.66	9.44	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.53	3.01	11.8	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.398	3.27	9.68	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.29	2.5	8.8	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.707	—	—	0.5	µg/L	Y	J	J	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.737	—	—	0.5	µg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.708	—	—	0.5	µg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.942	—	—	0.5	µg/L	Y	J	J	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.39	—	—	0.5	µg/L	Y	J	U	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.04	—	—	0.5	µg/L	Y	J	J	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.306	—	—	0.017	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.291	—	—	0.017	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.296	—	—	0.017	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.77	—	—	0.017	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.284	—	—	0.017	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.299	—	—	0.05	mg/L	Y	—	NQ	12-711	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.22	—	—	0.05	µg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.209	—	—	0.05	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.208	—	—	0.05	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.227	—	—	0.05	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.233	—	—	0.05	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	09/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.24	—	—	0.05	µg/L	Y	—	J+	11-3681	CAAN-11-27011	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00207	0.00359	0.0391	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0132	0.00937	0.04	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00658	0.0397	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00999	0.0455	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0051	0.0328	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0044	0.028	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00415	0.00508	0.0506	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00662	0.00662	0.0696	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00329	0.0087	0.0691	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00706	0.00999	0.104	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00721	0.0364	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0022	0.0038	0.032	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.14	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.12	—	—	0.05	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.29	—	—	0.05	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.21	—	—	0.05	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.37	—	—	0.05	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.3	17.6	38.2	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.9	15.6	56.3	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	0.8	15	59.6	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	22.7	21.2	89.8	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-2.12	15.6	54.6	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.6	15	53	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	63.4	—	—	0.053	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	60.2	—	—	0.053	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	60.6	—	—	0.053	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63	—	—	0.053	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	63.8	—	—	0.053	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.8	—	—	0.053	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.3	—	—	0.1	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14	—	—	0.1	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.11	1.16	3.52	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.05	1.16	3.74	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.07	1.06	4.42	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.91	1.48	4.8	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.83	1.49	4.03	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.43	1.4	4.7	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	114	—	—	3.63	µS/cm	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	µS/cm	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	1	µS/cm	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	µS/cm	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	µS/cm	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	59.1	—	—	1	µg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57	—	—	1	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.1	—	—	1	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	64.4	—	—	1	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	71.2	—	—	1	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.212	0.11	0.49	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.301	0.113	0.484	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.141	0.137	0.475	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.000552	0.126	0.475	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0829	0.14	0.484	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.129	0.15	0.49	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.68	—	—	0.133	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.85	—	—	0.133	mg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.84	—	—	0.133	mg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.28	—	—	0.133	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.84	—	—	0.133	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.76	—	—	0.1	mg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	62.9	—	—	3.4	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	113	—	—	3.4	mg/L	Y	H	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	RE	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	94.3	—	—	3.4	mg/L	Y	H	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	413	—	—	3.4	mg/L	N	—	R	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	223	—	—	3.4	mg/L	N	—	R	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	J	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0765	—	—	0.017	mg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0263	—	—	0.017	mg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0394	—	—	0.017	mg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0574	—	—	0.017	mg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	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	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0477	—	—	0.015	mg/L	Y	J	J	12-711	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.3	1.01	3.43	—	pCi/L	Y	U	U	2015-885	CAAN-15-92883	ARSL
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.879	0.653	2.116	—	pCi/L	Y	U	U	2014-4232	CAAN-14-84628	ARSL
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.682	0.657	2.161	—	pCi/L	Y	U	U	2014-4232	CAAN-14-84625	ARSL
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.656	0.495	1.603	—	pCi/L	Y	U	U	2014-2980	CAAN-14-54788	ARSL
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.947	0.742	2.186	—	pCi/L	Y	U	U	2013-615	CAAN-13-28901	ARSL
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.06	0.61	1.92	—	pCi/L	Y	U	U	12-714	CAAN-12-2024	ARSL
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.453	—	—	0.067	µg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.381	—	—	0.067	µg/L	Y	—	NQ	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.434	—	—	0.067	µg/L	Y	—	NQ	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.543	—	—	0.067	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.451	—	—	0.067	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.484	—	—	0.067	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.242	0.0443	0.267	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.255	0.027	0.0631	—	pCi/L	Y	—	J	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.339	0.0354	0.0865	—	pCi/L	Y	—	NQ	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.271	0.0345	0.0652	—	pCi/L	Y	—	NQ	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.28	0.0283	0.0613	—	pCi/L	Y	—	J	2013-607	CAAN-13-28901	GELC



Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.279	0.032	0.049	—	pCi/L	Y	—	NQ	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0256	0.0283	0.167	—	pCi/L	Y	U	U	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0284	0.0105	0.038	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00863	0.00863	0.052	—	pCi/L	Y	U	U	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00486	0.00842	0.0622	—	pCi/L	Y	U	U	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0131	0.00805	0.0356	—	pCi/L	Y	U	U	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0212	0.0076	0.026	—	pCi/L	Y	U	U	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.159	0.0397	0.136	—	pCi/L	Y	—	NQ	2015-866	CAAN-15-92883	GELC
R-29	1170	08/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.112	0.018	0.0563	—	pCi/L	Y	—	J	2014-4255	CAAN-14-84628	GELC
R-29	1170	08/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.161	0.0247	0.0772	—	pCi/L	Y	—	NQ	2014-4255	CAAN-14-84625	GELC
R-29	1170	03/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.173	0.0267	0.0609	—	pCi/L	Y	—	NQ	2014-2989	CAAN-14-54788	GELC
R-29	1170	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.176	0.0223	0.0332	—	pCi/L	Y	—	J	2013-607	CAAN-13-28901	GELC
R-29	1170	02/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.187	0.024	0.037	—	pCi/L	Y	—	NQ	12-712	CAAN-12-2024	GELC
R-29	1170	03/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.65	—	—	1	µg/L	Y	—	NQ	2015-866	CAAN-15-92887	GELC
R-29	1170	08/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.91	—	—	1	µg/L	Y	J	J	2014-4255	CAAN-14-84630	GELC
R-29	1170	08/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.8	—	—	1	µg/L	Y	J	J	2014-4255	CAAN-14-84624	GELC
R-29	1170	03/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.58	—	—	1	µg/L	Y	—	NQ	2014-2989	CAAN-14-54790	GELC
R-29	1170	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.6	—	—	1	µg/L	Y	—	NQ	2013-607	CAAN-13-28903	GELC
R-29	1170	02/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.87	—	—	1	µg/L	Y	—	NQ	12-712	CAAN-12-2025	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.75	—	—	0.01	SU	Y	H	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	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	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	J-	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	J-	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.3	—	—	0.725	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.3	—	—	0.725	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	48.7	—	—	0.725	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.3	—	—	0.725	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.5	—	—	0.725	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.8	—	—	0.725	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.9	—	—	0.73	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.9	—	—	0.73	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00723	0.00723	0.0607	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00821	0.0689	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00365	0.0121	0.0428	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00853	0.00603	0.0427	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00724	0.00639	0.0317	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00248	0.00657	0.0325	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0021	0.0056	0.043	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00361	0.0036	0.073	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	14.1	—	—	1	µg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	14.4	—	—	1	µg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.5	—	—	1	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.6	—	—	1	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC



Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.2	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.7	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.7	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.5	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.4	—	—	0.05	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.52	—	—	0.05	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.34	—	—	0.05	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.72	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.36	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10	—	—	0.05	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10	—	—	0.05	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.56	2.04	7.57	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.194	1.95	5.96	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.61	1.48	4.26	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.31	1.48	5.84	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.727	1.44	4.19	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.7	1.34	4.56	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.623	1.3	4.6	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.9	1.3	5	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.52	—	—	0.067	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.53	—	—	0.067	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.59	—	—	0.067	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.63	—	—	0.067	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.63	—	—	0.067	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.62	—	—	0.067	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.61	—	—	0.066	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.6	—	—	0.066	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.27	—	—	2	µg/L	Y	J	J	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.06	—	—	2	µg/L	Y	J	J	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.07	—	—	2	µg/L	Y	J	J	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.22	—	—	2	µg/L	Y	J	J	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.76	—	—	2	µg/L	Y	J	J	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.64	—	—	2	µg/L	Y	J	J	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.98	—	—	2	µg/L	Y	J	J	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.51	—	—	2	µg/L	Y	J	J	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.61	1.97	6.79	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.49	1.66	5.89	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.5	1.33	5.42	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.65	1.28	6.07	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.158	1.22	4.45	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.737	1.44	4.74	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.529	1.2	4.5	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.747	1.3	4.6	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.187	—	—	0.033	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.188	—	—	0.033	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.179	—	—	0.033	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.19	—	—	0.033	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.253	—	—	0.033	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.246	—	—	0.033	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.245	—	—	0.033	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.246	—	—	0.033	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.53	0.559	2.76	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.901	0.343	1.08	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.1	0.75	2.94	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.29	0.418	1.99	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.29	0.62	1.63	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.35	0.678	1.86	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.63	0.69	1.6	—	pCi/L	Y	—	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.191	0.41	1.9	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.38	0.504	1.63	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.487	0.395	1.3	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.27	0.951	2.82	—	pCi/L	Y	—	NQ	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.862	0.601	1.99	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.13	0.71	2.34	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.85	0.659	2.24	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.426	0.63	2.3	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.251	0.63	2.3	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.7	—	—	0.453	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.9	—	—	0.453	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.9	—	—	0.453	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.4	—	—	0.453	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.8	—	—	0.453	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.4	—	—	0.453	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.7	—	—	0.45	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.5	—	—	0.45	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.05	—	—	0.11	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.14	—	—	0.11	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.95	—	—	0.11	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.93	—	—	0.11	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.93	—	—	0.11	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.06	—	—	0.11	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.16	—	—	0.165	µg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.22	—	—	0.165	µg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04	—	—	0.165	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.16	—	—	0.165	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.37	—	—	0.165	µg/L	Y	—	U	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.27	—	—	0.165	µg/L	Y	—	U	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.17	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.17	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.02	3.49	11.1	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0966	3.2	11.1	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.87	2.83	9.66	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0315	2.7	9.71	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.554	2.58	9.24	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	2	2.64	9.46	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.37	2.9	9.9	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.04	2.9	9.1	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.313	—	—	0.017	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.311	—	—	0.017	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	—	—	0.017	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.31	—	—	0.017	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.307	—	—	0.017	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.304	—	—	0.017	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.304	—	—	0.05	mg/L	Y	—	NQ	12-700	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.304	—	—	0.05	mg/L	Y	—	NQ	12-700	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.24	—	—	0.05	µg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.24	—	—	0.05	µg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.216	—	—	0.05	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.23	—	—	0.05	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.24	—	—	0.05	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.238	—	—	0.05	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	09/14/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.243	—	—	0.05	µg/L	Y	—	NQ	11-3588	CAAN-11-27017	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00501	0.00614	0.0472	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00933	0.0103	0.0586	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00598	0.0511	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00299	0.00518	0.0385	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00545	0.00545	0.0351	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00262	0.00454	0.0338	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00847	0.01	0.036	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00913	0.012	0.038	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0112	0.0611	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00311	0.012	0.0759	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00422	0.014	0.0888	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00598	0.00598	0.0878	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00545	0.00545	0.039	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0083	0.0375	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00304	0.0053	0.045	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00565	0.0057	0.042	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.16	—	—	0.05	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.2	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.18	—	—	0.05	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.22	—	—	0.05	mg/L	Y	—	J	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.23	—	—	0.05	mg/L	Y	—	J	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.19	20.2	80.1	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	31.1	19.2	39.3	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	9.89	18.8	49.6	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	35.7	19.2	64	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.36	14.3	53.5	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	13.5	17.4	42.7	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-0.0833	18	69	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.52	18	71	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.3	—	—	0.053	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.4	—	—	0.053	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.4	—	—	0.053	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.2	—	—	0.053	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.2	—	—	0.053	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67	—	—	0.053	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.8	—	—	0.053	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.8	—	—	0.053	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	12	—	—	0.1	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.74	1.78	7.69	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.04	1.42	5.18	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.68	1.45	4.97	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.565	1.33	5.5	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.32	1.84	4.55	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.81	1.61	4.38	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.55	1.6	5.3	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.793	1.2	5	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	110	—	—	3.63	µS/cm	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	110	—	—	3.63	µS/cm	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	1	µS/cm	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	118	—	—	1	µS/cm	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	1	µS/cm	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.7	—	—	1	µg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.1	—	—	1	µg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46.8	—	—	1	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.1	—	—	1	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.4	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.9	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.3	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.083	0.134	0.481	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.276	0.119	0.495	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.228	0.11	0.455	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.357	0.146	0.452	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0106	0.138	0.482	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0328	0.0661	0.224	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.362	0.15	0.49	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.167	0.098	0.42	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.47	—	—	0.133	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.47	—	—	0.133	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.55	—	—	0.133	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.51	—	—	0.133	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.76	—	—	0.133	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.58	—	—	0.133	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.87	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.9	—	—	0.1	mg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	109	—	—	3.4	mg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	3.4	mg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	82.9	—	—	3.4	mg/L	Y	—	J	12-699	CAAN-12-2030	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	J	12-699	CAAN-12-2200	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.339	—	—	0.33	mg/L	Y	J	J	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.395	—	—	0.33	mg/L	Y	J	J	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.701	—	—	0.33	mg/L	Y	J	J	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.78	—	—	0.33	mg/L	Y	J	J	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.706	—	—	0.33	mg/L	Y	J	J	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.359	—	—	0.33	mg/L	Y	J	J	12-700	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.349	—	—	0.33	mg/L	Y	J	J	12-700	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.61	1.07	3.59	—	pCi/L	Y	U	U	2015-885	CAAN-15-92884	ARSL
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.69	1.11	3.72	—	pCi/L	Y	U	U	2015-885	CAAN-15-92879	ARSL
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.912	0.779	2.328	—	pCi/L	Y	U	U	2014-4343	CAAN-14-84629	ARSL
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.39	0.64	2.142	—	pCi/L	Y	U	U	2014-2942	CAAN-14-54789	ARSL
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.09	0.672	2.141	—	pCi/L	Y	U	U	2013-615	CAAN-13-28897	ARSL
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.006	0.785	2.688	—	pCi/L	Y	U	U	2013-615	CAAN-13-28902	ARSL
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.97	0.65	2.1	—	pCi/L	Y	U	U	12-697	CAAN-12-2031	ARSL
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.37	0.64	2.15	—	pCi/L	Y	U	U	12-697	CAAN-12-2199	ARSL
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.506	—	—	0.067	µg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.592	—	—	0.067	µg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.41	—	—	0.067	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.501	—	—	0.067	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.506	—	—	0.067	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.506	—	—	0.067	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.526	—	—	0.067	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.527	—	—	0.067	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.303	0.0253	0.0755	—	pCi/L	Y	—	NQ	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.257	0.0247	0.0782	—	pCi/L	Y	—	NQ	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.264	0.0289	0.0695	—	pCi/L	Y	—	NQ	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.318	0.0301	0.0435	—	pCi/L	Y	—	NQ	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.326	0.0315	0.064	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.308	0.0298	0.0625	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.263	0.035	0.072	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2199	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.249	0.038	0.09	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2031	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0121	0.00871	0.0472	—	pCi/L	Y	U	U	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00501	0.00792	0.0489	—	pCi/L	Y	U	U	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.011	0.0418	—	pCi/L	Y	U	U	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0162	0.00859	0.0415	—	pCi/L	Y	U	U	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00343	0.00767	0.0371	—	pCi/L	Y	U	U	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00335	0.00581	0.0363	—	pCi/L	Y	U	U	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00483	0.0048	0.048	—	pCi/L	Y	U	U	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0193	0.0087	0.038	—	pCi/L	Y	U	U	12-699	CAAN-12-2199	GELC
R-30	1140	03/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.17	0.0195	0.0385	—	pCi/L	Y	—	NQ	2015-873	CAAN-15-92884	GELC
R-30	1140	03/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.186	0.0205	0.0399	—	pCi/L	Y	—	NQ	2015-873	CAAN-15-92879	GELC
R-30	1140	08/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.146	0.0224	0.062	—	pCi/L	Y	—	NQ	2014-4316	CAAN-14-84629	GELC
R-30	1140	03/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.152	0.021	0.0407	—	pCi/L	Y	—	NQ	2014-2944	CAAN-14-54789	GELC
R-30	1140	03/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.205	0.0248	0.0346	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28902	GELC
R-30	1140	03/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.16	0.0212	0.0339	—	pCi/L	Y	—	NQ	2013-608	CAAN-13-28897	GELC
R-30	1140	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.211	0.032	0.068	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2031	GELC
R-30	1140	02/01/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.147	0.025	0.054	—	pCi/L	Y	—	NQ	12-699	CAAN-12-2199	GELC
R-30	1140	03/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.65	—	—	1	µg/L	Y	—	NQ	2015-873	CAAN-15-92888	GELC
R-30	1140	03/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.87	—	—	1	µg/L	Y	—	NQ	2015-873	CAAN-15-92880	GELC
R-30	1140	08/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.4	—	—	1	µg/L	Y	—	NQ	2014-4316	CAAN-14-84631	GELC
R-30	1140	03/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.84	—	—	1	µg/L	Y	—	NQ	2014-2944	CAAN-14-54791	GELC
R-30	1140	03/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.13	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28904	GELC
R-30	1140	03/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.76	—	—	1	µg/L	Y	—	NQ	2013-608	CAAN-13-28898	GELC
R-30	1140	02/01/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.51	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2200	GELC
R-30	1140	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.74	—	—	1	µg/L	Y	—	NQ	12-699	CAAN-12-2030	GELC
R-31 S4	826.6	03/17/15	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	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	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	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.36	—	—	0.01	SU	Y	H	J-	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	J-	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.22	—	—	0.01	SU	Y	H	J-	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.7	—	—	0.725	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	34.2	—	—	0.725	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.8	—	—	0.73	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.6	—	—	0.73	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.6	—	—	0.73	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00975	0.00597	0.0409	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0139	0.00654	0.0404	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0124	0.0059	0.042	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00667	0.0034	0.034	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000802	0.0018	0.035	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.79	—	—	1.7	µg/L	Y	J	J	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.74	—	—	1.5	µg/L	Y	B	J	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	36.7	—	—	1	µg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.3	—	—	1	µg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.8	—	—	1	µg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.8	—	—	1	µg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.3	—	—	1	µg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.78	—	—	0.05	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.87	—	—	0.05	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.62	—	—	0.05	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.38	—	—	0.05	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.98	—	—	0.05	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.576	1.41	4.71	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.497	1.54	5.21	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.52	1.1	3.5	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.73	1.6	5.7	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.554	1.3	4.1	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.65	—	—	0.067	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.64	—	—	0.067	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.67	—	—	0.066	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.67	—	—	0.066	mg/L	Y	—	J+	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.51	—	—	0.066	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.91	—	—	2	µg/L	Y	J	J	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.92	—	—	2	µg/L	Y	J	J	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.8	—	—	2	µg/L	Y	J	J	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2.5	µg/L	Y	U	U	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.88	—	—	2.5	µg/L	Y	B	J	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0643	1.48	5.57	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.3	1.69	6.01	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.101	1.1	4.1	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.94	1.6	5.6	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.788	1.2	4.1	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.195	—	—	0.033	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.198	—	—	0.033	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.22	—	—	0.033	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.186	—	—	0.033	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.171	—	—	0.033	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.982	0.415	1.58	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.262	0.0864	1.59	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.131	0.56	2.6	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.85	0.88	2.4	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.478	0.42	1.5	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.15	0.511	1.62	—	pCi/L	Y	—	NQ	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.86	0.338	0.938	—	pCi/L	Y	—	J	2013-671	CAAN-13-28914	GELC



Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.39	0.67	2.1	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.26	0.86	2.1	—	pCi/L	Y	—	NQ	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.63	1.3	3.6	—	pCi/L	Y	—	NQ	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.2	—	—	0.453	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.2	—	—	0.453	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.7	—	—	0.45	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.3	—	—	0.35	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.2	—	—	0.35	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.37	—	—	0.11	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.57	—	—	0.11	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.36	—	—	0.11	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.4	—	—	0.085	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.5	—	—	0.085	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	µg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.28	—	—	0.165	µg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.22	—	—	0.17	µg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.1	µg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.14	—	—	0.1	µg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.57	2.94	8.96	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.3	2.52	8.35	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.58	2	7.2	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.2	3.1	11	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.47	13	38	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.413	—	—	0.017	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.327	—	—	0.017	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.347	—	—	0.05	mg/L	Y	—	NQ	12-704	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.295	—	—	0.05	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.38	—	—	0.05	mg/L	Y	—	U	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.23	—	—	0.05	µg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.249	—	—	0.05	µg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.244	—	—	0.05	µg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.236	—	—	0.05	µg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	10/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.219	—	—	0.05	µg/L	Y	—	NQ	10-238	CAAN-09-14344	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00297	0.00662	0.0347	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	1.68E-09	0.00797	0.0392	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0071	0.037	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00325	0.0028	0.019	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.013	0.0057	0.036	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.000946	0.00452	0.045	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00756	0.00836	0.0383	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00583	0.0041	0.043	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0023	0.032	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00433	0.0053	0.036	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.33	—	—	0.05	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.48	—	—	0.05	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.37	—	—	0.05	mg/L	Y	—	J	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.4	—	—	0.05	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC



Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.4	—	—	0.05	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.9	14.7	58.7	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.66	16.2	64.4	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.4	14	51	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.96	20	69	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.25	15	52	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.1	—	—	0.53	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.5	—	—	0.053	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.6	—	—	0.053	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	82.6	—	—	0.053	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	82	—	—	0.053	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.83	—	—	0.1	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.98	—	—	0.1	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.787	1.21	5.04	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.36	1.27	4.28	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.608	1.1	3.8	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.304	1.4	4.7	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.94	1.4	5.3	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	109	—	—	3.63	µS/cm	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	118	—	—	1	µS/cm	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	1	µS/cm	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	113	—	—	1	µS/cm	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120	—	—	1	µS/cm	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.4	—	—	1	µg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.6	—	—	1	µg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.1	—	—	1	µg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48	—	—	1	µg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.9	—	—	1	µg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0336	0.138	0.489	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.476	0.152	0.484	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.136	0.14	0.48	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.038	0.11	0.4	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0477	0.14	0.48	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.47	—	—	0.133	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.53	—	—	0.133	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.63	—	—	0.1	mg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.68	—	—	0.1	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.76	—	—	0.1	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	113	—	—	3.4	mg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	106	—	—	3.4	mg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	J	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	142	—	—	2.4	mg/L	Y	—	J	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	2.4	mg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.39	—	—	0.33	mg/L	Y	J	J	2015-899	CAAN-15-92885	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.746	—	—	0.33	mg/L	Y	J	J	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.502	—	—	0.33	mg/L	Y	J	J	12-704	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	04/22/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	10-2878	CAAN-10-15245	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0422	—	—	0.017	mg/L	Y	J	J	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	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	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0564	—	—	0.015	mg/L	Y	—	NQ	12-704	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.055	—	—	0.015	mg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.058	—	—	0.015	mg/L	Y	—	U	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.228	—	—	0.067	µg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.266	—	—	0.067	µg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.234	—	—	0.067	µg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.257	—	—	0.05	µg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.265	—	—	0.05	µg/L	Y	—	U	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.159	0.0193	0.0785	—	pCi/L	Y	—	NQ	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.145	0.0194	0.0563	—	pCi/L	Y	—	NQ	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.143	0.023	0.062	—	pCi/L	Y	—	NQ	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.136	0.023	0.073	—	pCi/L	Y	—	NQ	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0601	0.03	0.19	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00503	0.00795	0.0491	—	pCi/L	Y	U	U	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0199	0.00852	0.0346	—	pCi/L	Y	U	U	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.0095	0.033	—	pCi/L	Y	U	U	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00336	0.0058	0.037	—	pCi/L	Y	U	U	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.016	0.096	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0732	0.0141	0.04	—	pCi/L	Y	—	J	2015-899	CAAN-15-92885	GELC
R-31 S4	826.6	03/26/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0873	0.0149	0.0316	—	pCi/L	Y	—	NQ	2013-671	CAAN-13-28914	GELC
R-31 S4	826.6	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0867	0.016	0.047	—	pCi/L	Y	—	NQ	12-703	CAAN-12-2027	GELC
R-31 S4	826.6	09/20/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0679	0.015	0.032	—	pCi/L	Y	—	NQ	10-4668	CAAN-10-25927	GELC
R-31 S4	826.6	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0894	0.025	0.12	—	pCi/L	Y	U	U	10-237	CAAN-09-14345	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.61	—	—	1	µg/L	Y	—	NQ	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.45	—	—	1	µg/L	Y	—	NQ	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.78	—	—	1	µg/L	Y	—	NQ	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.43	—	—	1	µg/L	Y	—	NQ	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.02	—	—	1	µg/L	Y	—	NQ	10-2878	CAAN-10-15246	GELC
R-31 S4	826.6	03/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.75	—	—	3.3	µg/L	Y	J	J	2015-899	CAAN-15-92889	GELC
R-31 S4	826.6	03/26/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.54	—	—	3.3	µg/L	Y	J	J	2013-671	CAAN-13-28916	GELC
R-31 S4	826.6	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.53	—	—	3.3	µg/L	Y	J	J	12-703	CAAN-12-2028	GELC
R-31 S4	826.6	09/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.19	—	—	3.3	µg/L	Y	B	J	10-4668	CAAN-10-25928	GELC
R-31 S4	826.6	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-2878	CAAN-10-15246	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.24	—	—	0.01	SU	Y	H	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.57	—	—	0.01	SU	Y	H	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.57	—	—	0.01	SU	Y	H	J-	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	J-	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.42	—	—	0.01	SU	Y	H	J-	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.2	—	—	0.725	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54	—	—	0.725	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.4	—	—	0.73	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.6	—	—	0.73	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.1	—	—	0.73	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0285	0.0252	0.16	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00399	0.00893	0.0523	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0107	0.0048	0.043	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0033	0.0037	0.044	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00237	0.002	0.033	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	27.6	—	—	1	µg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.1	—	—	1	µg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.5	—	—	1	µg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.8	—	—	1	µg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.5	—	—	1	µg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.37	—	—	0.05	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.16	—	—	0.05	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.71	—	—	0.05	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.52	—	—	0.05	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.09	—	—	0.05	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.482	1.79	6.28	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.52	1.6	5.54	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.577	1.2	4.1	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.72	1.6	4.4	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.473	1.4	4.7	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.44	—	—	0.067	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.45	—	—	0.067	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.48	—	—	0.066	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.47	—	—	0.066	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.34	—	—	0.066	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.52	—	—	2	µg/L	Y	J	J	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.48	—	—	2	µg/L	Y	J	J	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.72	—	—	2	µg/L	Y	J	J	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.76	—	—	2.5	µg/L	Y	J	J	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.91	—	—	2.5	µg/L	Y	B	J	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.81	1.19	5.09	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.684	1.31	4.89	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.63	1.2	4.1	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.91	1.9	7.1	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.56	1.5	5.2	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.173	—	—	0.033	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.16	—	—	0.033	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.18	—	—	0.033	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.156	—	—	0.033	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.132	—	—	0.033	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.275	0.599	2.92	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.02	0.698	2.32	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.397	0.35	2.6	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.367	0.53	2.1	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.112	0.69	2.6	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.89	0.341	1.1	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.64	0.372	0.939	—	pCi/L	Y	—	NQ	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.26	0.65	2	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.07	0.84	2.8	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.84	0.96	2.9	—	pCi/L	Y	—	NQ	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	30.7	—	—	0.453	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34	—	—	0.453	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.2	—	—	0.45	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.4	—	—	0.35	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	29.8	—	—	0.35	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.37	—	—	0.11	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.71	—	—	0.11	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.53	—	—	0.11	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.46	—	—	0.085	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.32	—	—	0.085	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.799	—	—	0.165	µg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02	—	—	0.17	µg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.1	µg/L	Y	—	J	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.697	—	—	0.1	µg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.803	3.53	12.1	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.239	2.85	10.4	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.944	2.2	7.5	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.73	2.9	9.6	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	10.3	11	36	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.334	—	—	0.017	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	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	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.328	—	—	0.05	mg/L	Y	—	NQ	12-704	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.3	—	—	0.05	mg/L	Y	—	J	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.381	—	—	0.05	mg/L	Y	—	U	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.214	—	—	0.05	µg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.233	—	—	0.05	µg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.22	—	—	0.05	µg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.227	—	—	0.05	µg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	10/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.197	—	—	0.05	µg/L	Y	J	J	10-238	CAAN-09-14348	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00843	0.0189	0.159	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00683	0.00683	0.044	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00593	0.01	0.037	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-2.03E-09	0.0074	0.024	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00419	0.003	0.034	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00843	0.0189	0.206	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00483	0.0488	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00296	0.0066	0.044	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00213	0.0064	0.035	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00418	0.0042	0.034	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.9	—	—	0.05	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.85	—	—	0.05	mg/L	Y	—	J	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.79	—	—	0.05	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.61	—	—	0.05	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.88	24.9	54.4	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.787	20.2	58.6	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.26	15	61	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.5	25	89	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.3	14	47	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.6	—	—	0.53	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	84.7	—	—	0.053	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	83.7	—	—	0.053	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	84.2	—	—	0.053	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.7	—	—	0.053	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.751	1.86	6.82	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.00488	1.51	5.87	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.548	1.1	4.1	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.28	1.7	6	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.59	1.5	5.3	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105	—	—	3.63	µS/cm	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	1	µS/cm	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	1	µS/cm	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	1	µS/cm	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	1	µS/cm	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	43.7	—	—	1	µg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.2	—	—	1	µg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.2	—	—	1	µg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.2	—	—	1	µg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	42.5	—	—	1	µg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.126	0.104	0.453	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.064	0.14	0.481	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.163	0.14	0.48	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0754	0.13	0.49	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0189	0.091	0.31	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.25	—	—	0.133	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.37	—	—	0.133	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.41	—	—	0.1	mg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.4	—	—	0.1	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.41	—	—	0.1	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	101	—	—	3.4	mg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	J	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	2.4	mg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC

Table C-2 MDA AB Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	160	—	—	2.4	mg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0418	—	—	0.017	mg/L	Y	J	J	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	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	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0761	—	—	0.015	mg/L	Y	—	NQ	12-704	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.071	—	—	0.015	mg/L	Y	—	U	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.059	—	—	0.015	mg/L	Y	—	U	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.115	—	—	0.067	µg/L	Y	J	J	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.103	—	—	0.067	µg/L	Y	J	J	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.117	—	—	0.067	µg/L	Y	J	J	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.135	—	—	0.05	µg/L	Y	J	J	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.125	—	—	0.05	µg/L	Y	B	U	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.125	0.0459	0.284	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0537	0.0182	0.0731	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0686	0.018	0.071	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.0814	0.015	0.054	—	pCi/L	Y	—	NQ	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.086	0.027	0.25	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0182	0.0314	0.178	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00392	0.00877	0.0424	—	pCi/L	Y	U	U	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00382	0.0066	0.038	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0124	0.0056	0.027	—	pCi/L	Y	U	U	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.012	0.12	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.125	0.0352	0.145	—	pCi/L	Y	U	U	2015-903	CAAN-15-92886	GELC
R-31 S5	1007	03/22/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0635	0.0162	0.0396	—	pCi/L	Y	—	J	2013-659	CAAN-13-28915	GELC
R-31 S5	1007	02/01/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0433	0.014	0.054	—	pCi/L	Y	U	U	12-703	CAAN-12-2035	GELC
R-31 S5	1007	09/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0422	0.011	0.024	—	pCi/L	Y	—	NQ	10-4600	CAAN-10-25931	GELC
R-31 S5	1007	10/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0616	0.027	0.15	—	pCi/L	Y	U	U	10-237	CAAN-09-14349	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.64	—	—	1	µg/L	Y	—	NQ	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.9	—	—	1	µg/L	Y	—	NQ	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.87	—	—	1	µg/L	Y	—	NQ	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.32	—	—	1	µg/L	Y	—	NQ	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.11	—	—	1	µg/L	Y	—	NQ	10-2878	CAAN-10-15248	GELC
R-31 S5	1007	03/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.86	—	—	3.3	µg/L	Y	J	J	2015-903	CAAN-15-92890	GELC
R-31 S5	1007	03/22/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.76	—	—	3.3	µg/L	Y	J	J	2013-659	CAAN-13-28917	GELC
R-31 S5	1007	02/01/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.43	—	—	3.3	µg/L	Y	J	J	12-703	CAAN-12-2036	GELC
R-31 S5	1007	09/09/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.08	—	—	3.3	µg/L	Y	J	J	10-4600	CAAN-10-25932	GELC
R-31 S5	1007	04/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.43	—	—	3.3	µg/L	Y	B	J	10-2878	CAAN-10-15248	GELC

## **Appendix D**

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*Groundwater Results Greater Than Half of Screening Levels*





There are no results for this periodic monitoring event.



## **Appendix E**

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*Analytical Chemistry Graphs of Screening-Level Exceedances*



There are no results for this periodic monitoring event.



## **Appendix F**

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*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)
2014-4232	Rad <sup>a</sup>	ARSL <sup>b</sup>	CAAN-14-84628	08/06/14	R-29	1170	1180
2014-4232	Rad	ARSL	CAAN-14-84625	08/06/14	R-29	1170	1180
2014-4255	Inorganic	GELC <sup>c</sup>	CAAN-14-84624	08/06/14	R-29	1170	1180
2014-4255	Inorganic	GELC	CAAN-14-84628	08/06/14	R-29	1170	1180
2014-4255	Inorganic	GELC	CAAN-14-84630	08/06/14	R-29	1170	1180
2014-4255	Inorganic	GELC	CAAN-14-84625	08/06/14	R-29	1170	1180
2014-4255	Organic	GELC	CAAN-14-84628	08/06/14	R-29	1170	1180
2014-4255	Organic	GELC	CAAN-14-84625	08/06/14	R-29	1170	1180
2014-4255	Rad	GELC	CAAN-14-84628	08/06/14	R-29	1170	1180
2014-4255	Rad	GELC	CAAN-14-84625	08/06/14	R-29	1170	1180
2014-4316	Inorganic	GELC	CAAN-14-84629	08/11/14	R-30	1140	1160.9
2014-4316	Inorganic	GELC	CAAN-14-84631	08/11/14	R-30	1140	1160.9
2014-4316	Organic	GELC	CAAN-14-84629	08/11/14	R-30	1140	1160.9
2014-4316	Rad	GELC	CAAN-14-84629	08/11/14	R-30	1140	1160.9
2014-4343	Rad	ARSL	CAAN-14-84629	08/11/14	R-30	1140	1160.9
2015-772	Inorganic	GELC	CAWA-15-91342	02/06/15	R-27i	619	629
2015-772	Inorganic	GELC	CAWA-15-91368	02/06/15	R-27	852	875
2015-772	Inorganic	GELC	CAWA-15-91369	02/06/15	R-27i	619	629
2015-772	Inorganic	GELC	CAWA-15-91341	02/06/15	R-27	852	875
2015-772	Organic	GELC	CAWA-15-91342	02/06/15	R-27i	619	629
2015-772	Organic	GELC	CAWA-15-91341	02/06/15	R-27	852	875
2015-772	Rad	GELC	CAWA-15-91342	02/06/15	R-27i	619	629
2015-772	Rad	GELC	CAWA-15-91341	02/06/15	R-27	852	875
2015-773	Organic	SHEALY <sup>d</sup>	CAWA-15-91342	02/06/15	R-27i	619	629
2015-773	Organic	SHEALY	CAWA-15-91341	02/06/15	R-27	852	875
2015-789	Rad	ARSL	CAWA-15-91342	02/06/15	R-27i	619	629
2015-789	Rad	ARSL	CAWA-15-91341	02/06/15	R-27	852	875
2015-866	Inorganic	GELC	CAAN-15-92887	03/09/15	R-29	1170	1180
2015-866	Inorganic	GELC	CAAN-15-92883	03/09/15	R-29	1170	1180
2015-866	Organic	GELC	CAAN-15-92883	03/09/15	R-29	1170	1180
2015-866	Rad	GELC	CAAN-15-92883	03/09/15	R-29	1170	1180
2015-868	Organic	SHEALY	CAAN-15-92883	03/09/15	R-29	1170	1180
2015-873	Inorganic	GELC	CAAN-15-92884	03/10/15	R-30	1140	1160.9
2015-873	Inorganic	GELC	CAAN-15-92880	03/10/15	R-30	1140	1160.9
2015-873	Inorganic	GELC	CAAN-15-92888	03/10/15	R-30	1140	1160.9
2015-873	Inorganic	GELC	CAAN-15-92879	03/10/15	R-30	1140	1160.9
2015-873	Organic	GELC	CAAN-15-92884	03/10/15	R-30	1140	1160.9
2015-873	Organic	GELC	CAAN-15-92879	03/10/15	R-30	1140	1160.9

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-873	Rad	GELC	CAAN-15-92884	03/10/15	R-30	1140	1160.9
2015-873	Rad	GELC	CAAN-15-92879	03/10/15	R-30	1140	1160.9
2015-874	Organic	SHEALY	CAAN-15-92879	03/10/15	R-30	1140	1160.9
2015-874	Organic	SHEALY	CAAN-15-92884	03/10/15	R-30	1140	1160.9
2015-885	Rad	ARSL	CAAN-15-92884	03/10/15	R-30	1140	1160.9
2015-885	Rad	ARSL	CAAN-15-92883	03/09/15	R-29	1170	1180
2015-885	Rad	ARSL	CAAN-15-92879	03/10/15	R-30	1140	1160.9
2015-899	Inorganic	GELC	CAAN-15-92885	03/17/15	R-31 S4	826.6	836.6
2015-899	Inorganic	GELC	CAAN-15-92889	03/17/15	R-31 S4	826.6	836.6
2015-899	Organic	GELC	CAAN-15-92885	03/17/15	R-31 S4	826.6	836.6
2015-899	Rad	GELC	CAAN-15-92885	03/17/15	R-31 S4	826.6	836.6
2015-900	Organic	SHEALY	CAAN-15-92885	03/17/15	R-31 S4	826.6	836.6
2015-903	Inorganic	GELC	CAAN-15-92886	03/18/15	R-31 S5	1007.1	1017.1
2015-903	Inorganic	GELC	CAAN-15-92890	03/18/15	R-31 S5	1007.1	1017.1
2015-903	Organic	GELC	CAAN-15-92886	03/18/15	R-31 S5	1007.1	1017.1
2015-903	Rad	GELC	CAAN-15-92886	03/18/15	R-31 S5	1007.1	1017.1
2015-904	Organic	SHEALY	CAAN-15-92886	03/18/15	R-31 S5	1007.1	1017.1

<sup>a</sup> Rad = Radiochemistry (not gamma).

<sup>b</sup> ARSL = American Radiation Services, Inc.

<sup>c</sup> GELC = General Engineering Laboratories, Inc., Charleston, SC.

<sup>d</sup> SHEALY = Shealy Environmental Services, Inc.