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Periodic Monitoring Report for Technical Area 54 Monitoring Group, Third Quarter, Monitoring Year 2016

Los Alamos
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Prepared by the Associate Directorate for Environmental Management

EP2016-0102

Periodic Monitoring Report for Technical Area 54 Monitoring Group, Third Quarter, Monitoring Year 2016

August 2016

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the monitoring year 2016, third quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Technical Area 54 monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from April 4 to April 19, 2016, and included the monitoring of groundwater wells and well screens. 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.

Water samples collected from various locations during this PME were analyzed for volatile organic compounds; semivolatile organic compounds; radionuclides, including low-level tritium; and field parameters (dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity).

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

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

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Acronyms and Abbreviations

amsl	above mean sea level
AOC	area of concern
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.)
EIM	Environmental Information Management (Database)
EPA	Environmental Protection Agency (U.S.)
ESH	Environment, Safety, and Health (Directorate)
F	filtered
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
NM HH OO	Human health organism only, New Mexico surface-water standards
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
RLWTF	Radioactive Liquid Waste Treatment Facility
SIM	selected ion monitoring
SOP	standard operating procedure
SVOC	semivolatile organic compound

SWMU	solid waste management unit
TA	technical area
TDS	total dissolved solids
TNT	2,4,6-trinitrotoluene
UF	unfiltered
VOC	volatile organic compound
Y	yes (best value flag code)

1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of monitoring year 2016, third quarter, semiannual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Technical Area 54 (TA-54) monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016 (2016 IFGMP) (LANL 2015, 600467), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from April 4 to April 19, 2016, and included sampling of groundwater wells and well screens.

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

At TA-54, groundwater monitoring is conducted to support both (1) the corrective measures process for solid waste management units (SWMUs) and areas of concern (AOCs) (particularly Material Disposal Areas [MDAs] G, H, and L) under the Consent Order and (2) the Resource Conservation and Recovery Act permit. The TA-54 monitoring group was established to address the monitoring requirements for all portions and aspects of TA-54. The TA-54 monitoring group includes both intermediate-perched and regional wells in the near vicinity. Other downgradient wells have general relevance to TA-54 and other upgradient sources but are not considered part of the TA-54 monitoring network and are not included in the monitoring group.

TA-54 is situated in the east-central portion of the Laboratory on Mesita del Buey. TA-54 includes four MDAs designated as G, H, J, and L; a waste characterization, container storage, and transfer facility (TA-54 West); active radioactive waste storage and disposal operations at Area G; hazardous and mixed-waste storage operations at Area L; and administrative and support areas. The transfer facility is located at the western end of TA-54. A total of 47 SWMUs and AOCs are located within TA-54.

Mesita del Buey is a 100 to 140–ft-high finger-shaped mesa that trends southeast. The elevation of Mesita del Buey ranges from 6750 ft to 6670 ft above mean sea level (amsl) at Area G. The mesa is approximately 500 ft wide and is bounded by Cañada del Buey and Pajarito Canyon.

The TA-54 monitoring group is located predominantly in the Pajarito Canyon watershed, and the occurrence of surface water, alluvial groundwater, and intermediate-perched and regional groundwater is discussed in the Pajarito Canyon Investigation Report, Revision 1 (LANL 2009, 106939).

Pore-gas monitoring data show vapor-phase volatile organic compounds (VOCs) and tritium are present in the upper portion of the unsaturated zone beneath MDAs G and L. The primary contaminants that have been transported in the vapor phase at TA-54 are 1,1,1-trichloroethane; trichloroethene; Freon-113; and tritium (LANL 2005, 090513; LANL 2006, 091888; LANL 2007, 096409).

Data from the groundwater monitoring network around TA-54 show sporadic detections of a variety of contaminants, including several VOCs. The temporal and spatial nature of the occurrences does not, however, clearly indicate the presence of a source related to potential sources at TA-54 (LANL 2009, 106939). Further evaluations of existing groundwater data near TA-54 and detailed descriptions of organic and inorganic contaminants detected in intermediate-perched and regional groundwater at TA-54 are presented in the corrective measures evaluation reports for MDAs G, H, and L (LANL 2011, 205756; LANL 2011, 206319; LANL 2011, 206324).

2.0 SCOPE OF ACTIVITIES

The PME for the TA-54 monitoring group was conducted pursuant to the 2016 IFGMP (LANL 2015, 600467).

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. Intermediate wells 03-B-13 and PCI-2 are part of the Pajarito General Surveillance monitoring group. However, as required by the 2016 IFGMP (LANL 2015, 600467), the results from sampling these wells during the current PME are reported in this PMR.

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 2016 IFGMP (LANL 2015, 600467).

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 current PME.

Table 3.4-2 presents a list of analytes with method detection limits (MDLs) greater than screening levels. Some of the analytes were measured using more than one analytical method, leading to a range of MDLs. For some of these analytes, the MDL is much lower than for earlier analyses. Table 3.4-3 presents a list of analytes with MDLs 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 2016 IFGMP (LANL 2015, 600467). Purge water is managed and characterized in accordance with the waste characterization strategy form associated with the well and ENV-RCRA-QP-010, Land Application of Groundwater. ENV-RCRA-QP-010 implements the NMED-approved Decision Tree for land application of drilling, development, rehabilitation, and purge water.

All sampling, data reviews, and data package validations were conducted using standard operating procedures (SOPs) that are part of a comprehensive quality assurance program. The procedures are listed at http://www.lanl.gov/environment/plans-procedures.php and are available at eprr.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 industry practices. The analytical laboratory assigns qualifiers to the data to indicate the quality of the analytical results. The laboratory batch QC is used in the secondary data validation process to evaluate the quality of individual analytical results, evaluate the appropriateness of the analytical methodologies, and measure the routine performance of the analytical laboratory.

In addition to batch QC performed by 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 followed the guidelines set in the DOE model SOP for data validation, which included 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 are 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 lower 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 are used as the groundwater cleanup level. These screening levels are for either a cancer- or noncancer-risk type. For the cancer-risk type, the Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels 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 2015 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 radionuclides and radioactivity are voluntarily compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Technical Standards (DCSs) for groundwater but are not reported in Table 4.2-2 or Appendix D.

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.

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 analytes from the current PME exceeded their screening level at more than one sampling location, so no maps showing concentrations are presented in this PMR.

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. Appendix E contains all locations where screening levels were exceeded, not just those scheduled to be sampled during this PME. 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.

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 PME samples reported in this PMR were above applicable screening levels. Two results for the current PME were above screening levels.

The unfiltered 1,4-dioxane concentration at intermediate well 03-B-13 was 327 µg/L, above the EPA tap water screening level of 4.6 µg/L. Concentrations of 1,4-dioxane for 03-B-13 since 2006 range from 6.22 µg/L to 919 µg/L.

The unfiltered 1,1,1-trichloroethane concentration at intermediate well 03-B-13 was 92.4 µg/L, above the NMWQCC groundwater standard of 60 µg/L. Concentrations of 1,1,1-trichloroethane for 03-B-13 since 2006 range from 39.9 µg/L to 317 µg/L.

4.3 Sampling Program Modifications

No modifications to the field sampling specified in the 2016 IFGMP for the TA-54 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 groundwater monitoring locations reported in this PMR were above screening levels. Two results from groundwater samples collected during this PME were above screening levels (Table 4.2-2).

For results above screening levels, the contaminants detected and their concentrations are consistent with data reported from previous PMEs in this monitoring group.

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 TA-54 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), September 2005. "Investigation Report for Material Disposal Area G, Consolidated Unit 54-013(b)-99, at Technical Area 54," Los Alamos National Laboratory document LA-UR-05-6398, Los Alamos, New Mexico. (LANL 2005, 090513)

LANL (Los Alamos National Laboratory), March 2006. "Investigation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 1," Los Alamos National Laboratory document LA-UR-06-1564, Los Alamos, New Mexico. (LANL 2006, 091888)

LANL (Los Alamos National Laboratory), May 2007. "Addendum to the Investigation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54," Los Alamos National Laboratory document LA-UR-07-3214, Los Alamos, New Mexico. (LANL 2007, 096409)

LANL (Los Alamos National Laboratory), August 2009. "Pajarito Canyon Investigation Report, Revision 1," Los Alamos National Laboratory document LA-UR-09-4670, Los Alamos, New Mexico. (LANL 2009, 106939)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area L, Solid Waste Management Unit 54-006, at Technical Area 54, Revision 2," Los Alamos National Laboratory document LA-UR-11-4798, Los Alamos, New Mexico. (LANL 2011, 205756)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area H, Solid Waste Management Unit 54-004, at Technical Area 54, Revision 1," Los Alamos National Laboratory document LA-UR-11-5079, Los Alamos, New Mexico. (LANL 2011, 206319)

LANL (Los Alamos National Laboratory), September 2011. "Corrective Measures Evaluation Report for Material Disposal Area G, Solid Waste Management Unit 54-013(b)-99, at Technical Area 54, Revision 3," Los Alamos National Laboratory document LA-UR-11-4910, Los Alamos, New Mexico. (LANL 2011, 206324)

LANL (Los Alamos National Laboratory), May 2015. "Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016," Los Alamos National Laboratory document LA-UR-15-23276, Los Alamos, New Mexico. (LANL 2015, 600467)

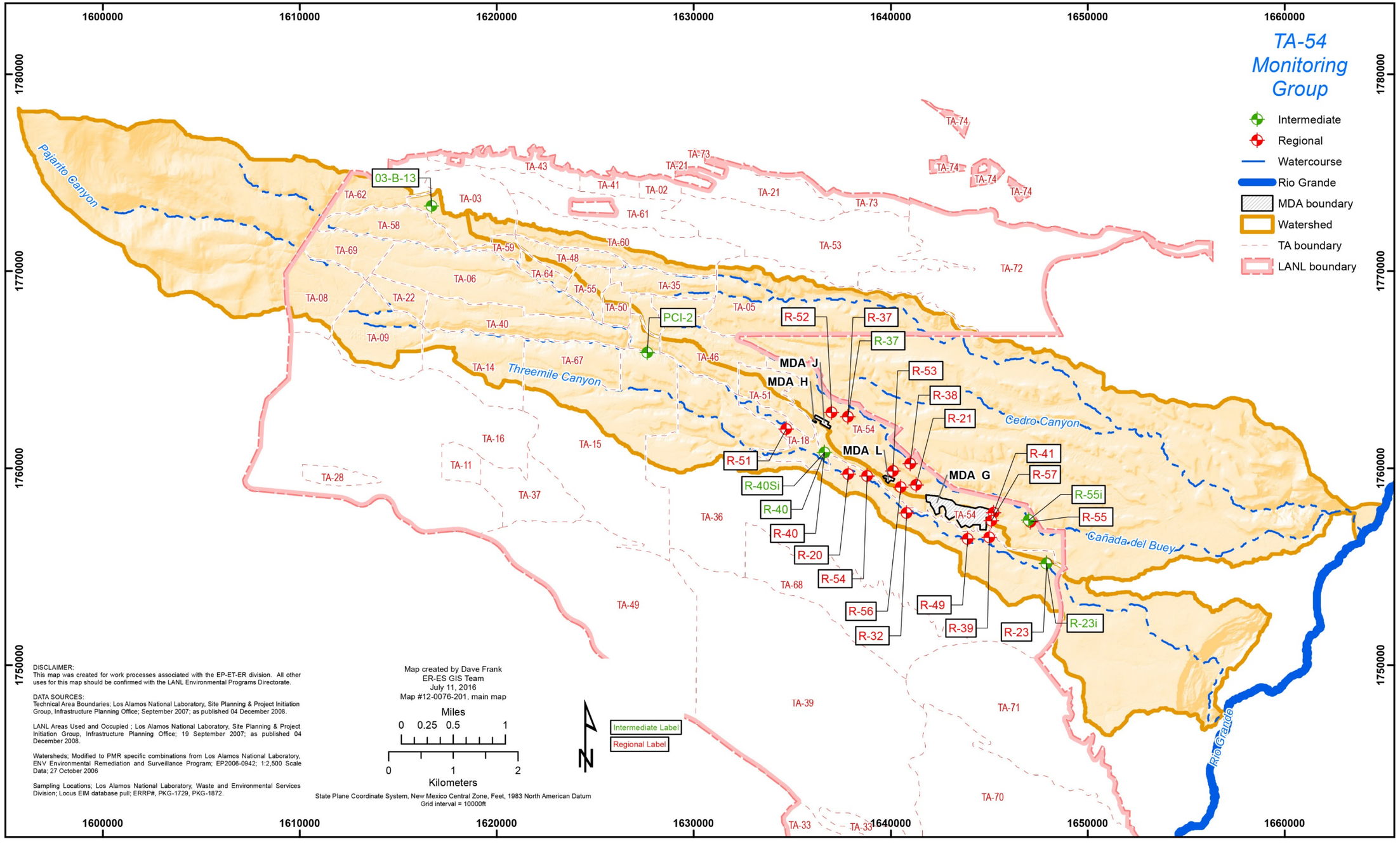


Figure 2.0-1 Locations scheduled to be monitored for this PME (see Table 2.0-1)

Table 2.0-1
TA-54 Monitoring Group Locations and General Information

Location Name	Sample Collection Date	Screen Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge-Rate (gpm[a])
Intermediate							
R-23i S1	04/11/16	19.7	400.3	420	3.45	21.6	1.2
R-23i S2	04/11/16	9.9	470.2	480.1	36.01	109.44	0.96
R-23i S3	04/18/16	23	524	547	42.46	127.92	1.64
R-37 S1	04/12/16	20.7	929.3	950	49.9	150.22	0.74
R-40 S1	04/18/16	33.47	751.59	785.06	30.5	30.8	0.56
R-40 Si	04/18/16	19.35	649.67	669.02	12.9	46.62	0.74
R-55i	04/08/16	21.1	510	531.1	43.67	146.4	2.44
03-B-13[b]	04/04/16	10	21.5	31.5	1.3	4	0.04
PCI-2[b]	04/14/16	10	512	522	20.85	63.36	0.48
Regional							
R-20 S1	04/13/16	7.6	904.6	912.2	70.1	210.98	0.77
R-20 S2	04/11/16	7.6	1147.1	1154.7	41	124.1	1.7
R-21	04/05/16	18	888.8	906.8	200.25	603.9	3.3
R-23	04/13/16	57.2	816	873.2	45.3	224.9	10.71
R-32 S1	04/15/16	7.7	867.5	875.2	87.9	265.2	2.21
R-37 S2	04/08/16	20.6	1026	1046.6	52	196.46	10.34
R-38	04/04/16	10	821.2	831.2	40.7	124.55	2.65
R-39	04/13/16	10	859	869	47.6	144.5	2.19
R-40 S2	04/15/16	20.73	849.27	870	38.4	116.5	2.08
R-41 S2	04/11/16	9.7	965.3	975	35.5	108.4	2.78
R-49 S1	04/07/16	10	845	855	77.7	233.2	1.78
R-49 S2	04/07/16	20.8	905.6	926.4	58.1	176.08	2.48
R-51 S1	04/05/16	10.28	914.96	925.24	59.4	179.4	3.9
R-51 S2	04/05/16	10.04	1030.96	1041	91.1	273.6	3.8
R-52 S1	04/06/16	20.5	1035.24	1055.7	61.86	186.3	3.45
R-52 S2	04/06/16	10	1107	1117	43.04	155.02	3.37
R-53 S1	04/19/16	10	849.2	859.2	75.53	230.1	3.9
R-53 S2	04/19/16	20.5	959.7	980.2	94.45	285	3.8
R-54 S1	04/06/16	10	830	840	52.3	159.12	3.12
R-54 S2	04/06/16	10	915	925	61.2	187.2	3.12
R-55 S1	04/07/16	20.6	860	880.6	110.94	334.65	2.91
R-55 S2	04/07/16	21	994.4	1015.4	72.42	217.91	2.83
R-56 S1	04/14/16	20.6	945	965.6	83.5	254.4	4.17

Table 2.0-1 (continued)

Location Name	Sample Collection Date	Screen Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge-Rate (gpm[a])
R-56 S2	04/14/16	20.5	1046.6	1067.1	68.7	208.5	4.17
R-57 S1	04/19/16	20.5	910	930.5	70.2	210.9	3.7
R-57 S2	04/19/16	20.6	971.5	992.1	51	155.2	3.61

[a] gpm = Gallons per minute.

[b] 03-B-13 and PCI-2 are Pajarito General Surveillance monitoring group locations.

Table 3.4-1
TA-54 Monitoring Group PME Observations and Deviations

Location	Deviation	Cause	Comment
n/a*	n/a	n/a	No deviations for this PME

*n/a = Not applicable.

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
Semivolatile Organic Compounds						
Atrazine	3.13	SW-846:8270D	3	µg/L	EPA MCL	GELC[a]
Azobenzene	1.5–3.13	SW-846:8270D	1.2	µg/L	EPA TAP SCRN LVL[b]	GELC
Benzidine	0.83–4.06	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011	µg/L	EPA TAP SCRN LVL	GELC
Benzo(a)anthracene	0.15–0.313	SW-846:8270D	0.12	µg/L	EPA TAP SCRN LVL	GELC
Benzo(a)pyrene	0.3–0.313	SW-846:8270D	0.2	µg/L	EPA MCL	GELC
Bis(2-chloroethyl)ether	1.5–3.13	SW-846:8270D	0.14	µg/L	EPA TAP SCRN LVL	GELC
Dibenz(a,h)anthracene	0.15–0.313	SW-846:8270D	0.034	µg/L	EPA TAP SCRN LVL	GELC
Dichlorobenzidine[3,3'-]	1.5–3.13	SW-846:8270D	1.3	µg/L	EPA TAP SCRN LVL	GELC
Dinitro-2-methylphenol[4,6-]	3–3.13	SW-846:8270D	1.5	µg/L	EPA TAP SCRN LVL	GELC
Hexachlorobenzene	1.5–3.13	SW-846:8270D	1	µg/L	EPA MCL	GELC
Nitrosodiethylamine[N-]	0.03–3.13	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0017	µg/L	EPA TAP SCRN LVL	GELC
Nitrosodimethylamine[N-]	0.07–3.13	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-butylamine[N-]	0.03–3.13	SW-846:8270DGCMS_SIM, SW-846:8270D	0.027	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-propylamine[N-]	1.5–3.13	SW-846:8270D	0.11	µg/L	EPA TAP SCRN LVL	GELC
Nitrosopyrrolidine[N-]	1.5–3.13	SW-846:8270D	0.37	µg/L	EPA TAP SCRN LVL	GELC
Pentachlorophenol	1.5–3.13	SW-846:8270D	1	µg/L	EPA MCL	GELC
Volatile Organic Compounds						
Acrolein	0.5–1.5	SW-846:8260B_SIM, SW-846:8260B	0.042	µg/L	EPA TAP SCRN LVL	GELC
Acrylonitrile	1–1.5	SW-846:8260B	0.52	µg/L	EPA TAP SCRN LVL	GELC
Chloro-1,3-butadiene[2-]	0.2–0.3	SW-846:8260B	0.19	µg/L	EPA TAP SCRN LVL	GELC
Dibromo-3-Chloropropane[1,2-]	0.5	SW-846:8260B	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.3	SW-846:8260B	0.05	µg/L	EPA MCL	GELC
Trichloropropane[1,2,3-]	0.0177–0.3	SW-846:8011, SW-846:8260B	0.0075	µg/L	EPA TAP SCRN LVL	GELC

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

[a] GELC = General Engineering Laboratories, Inc., Charleston, SC.

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

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
Herbicides						
Pentachlorophenol	0.0886–0.0926	SW-846:8151A	1	µg/L	EPA MCL	GELC[a]
Pesticides and PCBs						
Hexachlorobenzene	0.00665	SW-846:8081B	1	µg/L	EPA MCL	GELC
Semivolatile Organic Compounds						
Atrazine	1.5–3	SW-846:8270D	3	µg/L	EPA MCL	GELC
Benzo(a)anthracene	0.03	SW-846:8270DGCMS_SIM	0.12	µg/L	EPA TAP SCRN LVL[b]	GELC
Benzo(a)pyrene	0.03–0.15	SW-846:8270D, SW-846:8270DGCMS_SIM	0.2	µg/L	EPA MCL	GELC
Benzo(b)fluoranthene	0.03–0.313	SW-846:8270D, SW-846:8270DGCMS_SIM	0.34	µg/L	EPA TAP SCRN LVL	GELC
Bis(2-chloroethyl)ether	0.03	SW-846:8270DGCMS_SIM	0.14	µg/L	EPA TAP SCRN LVL	GELC
Dibenz(a,h)anthracene	0.03	SW-846:8270DGCMS_SIM	0.034	µg/L	EPA TAP SCRN LVL	GELC
Dichlorobenzidine[3,3'-]	0.039	SW-846:8270DGCMS_SIM	1.3	µg/L	EPA TAP SCRN LVL	GELC
Dinitro-2-methylphenol[4,6-]	1.5	SW-846:8270D	1.5	µg/L	EPA TAP SCRN LVL	GELC
Indeno(1,2,3-cd)pyrene	0.03–0.313	SW-846:8270D, SW-846:8270DGCMS_SIM	0.34	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-propylamine[N-]	0.03	SW-846:8270DGCMS_SIM	0.11	µg/L	EPA TAP SCRN LVL	GELC
Nitrosopyrrolidine[N-]	0.03	SW-846:8270DGCMS_SIM	0.37	µg/L	EPA TAP SCRN LVL	GELC
Oxybis(1-chloropropane)[2,2'-]	1.5–3.13	SW-846:8270D	710	µg/L	EPA TAP SCRN LVL	GELC
Volatile Organic Compounds						
Acrylonitrile	0.5	SW-846:8260B_SIM	0.52	µg/L	EPA TAP SCRN LVL	GELC
Chloro-1,3-butadiene[2-]	0.1	SW-846:8260B_SIM	0.19	µg/L	EPA TAP SCRN LVL	GELC
Dibromo-3-Chloropropane[1,2-]	0.0084–0.00892	SW-846:8011	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.0084–0.00892	SW-846:8011	0.05	µg/L	EPA MCL	GELC
Methacrylonitrile	1–1.5	SW-846:8260B	1.9	µg/L	EPA TAP SCRN LVL	GELC

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

[a] GELC = General Engineering Laboratories, Inc., Charleston, SC.

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

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

[a] n/a = Not applicable.

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

[c] CFR = Code of Federal Regulations.

[d] Available at http://www.epa.gov/risk/risk-based-screening-table-generic-tables.

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

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

Table 4.2-2
TA-54 Monitoring Group Groundwater Results above Screening Levels

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
Intermediate Groundwater							
03-B-13	04/04/16	Dioxane[1,4-]	UF[a]	327	µg/L	4.6	EPA TAP SCRN LVL[b]
03-B-13	04/04/16	Trichloroethane[1,1,1-]	UF	92.4	µg/L	60	NMWQCC GW STD[c]

[a] UF = Unfiltered.

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

[c] NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

Appendix A

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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
03-B-13	21.5	04/04/16	WG[a]	Dissolved Oxygen	4.14	mg/L	CAPA-16-114704
03-B-13	21.5	10/19/15	WG	Dissolved Oxygen	0.28	mg/L	CAPA-16-105569
03-B-13	21.5	04/17/15	WG	Dissolved Oxygen	0.79	mg/L	CAPA-15-93432
03-B-13	21.5	10/14/14	WG	Dissolved Oxygen	0.99	mg/L	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Dissolved Oxygen	2.94	mg/L	CAPA-14-56383
03-B-13	21.5	04/04/16	WG	Flow (in gpm[b])	0.04	gpm	CAPA-16-114704
03-B-13	21.5	10/19/15	WG	Flow (in gpm)	0.05	gpm	CAPA-16-105569
03-B-13	21.5	04/17/15	WG	Flow (in gpm)	0.03	gpm	CAPA-15-93432
03-B-13	21.5	10/14/14	WG	Flow (in gpm)	0.05	gpm	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Flow (in gpm)	0.05	gpm	CAPA-14-56383
03-B-13	21.5	04/04/16	WG	Oxidation-Reduction Potential	263.9	mV	CAPA-16-114704
03-B-13	21.5	10/19/15	WG	Oxidation-Reduction Potential	145.9	mV	CAPA-16-105569
03-B-13	21.5	04/17/15	WG	Oxidation-Reduction Potential	194	mV	CAPA-15-93432
03-B-13	21.5	10/14/14	WG	Oxidation-Reduction Potential	45	mV	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Oxidation-Reduction Potential	240.9	mV	CAPA-14-56383
03-B-13	21.5	04/04/16	WG	pH	6.22	SU[c]	CAPA-16-114704
03-B-13	21.5	10/19/15	WG	pH	5.64	SU	CAPA-16-105569
03-B-13	21.5	04/17/15	WG	pH	5.85	SU	CAPA-15-93432
03-B-13	21.5	10/14/14	WG	pH	5.71	SU	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	pH	5.8	SU	CAPA-14-56383
03-B-13	21.5	04/04/16	WG	Specific Conductance	965	µS/cm	CAPA-16-114704
03-B-13	21.5	10/19/15	WG	Specific Conductance	466	µS/cm	CAPA-16-105569
03-B-13	21.5	04/17/15	WG	Specific Conductance	719	µS/cm	CAPA-15-93432
03-B-13	21.5	10/14/14	WG	Specific Conductance	270	µS/cm	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Specific Conductance	242	µS/cm	CAPA-14-56383
03-B-13	21.5	04/04/16	WG	Temperature	14.94	deg C	CAPA-16-114704
03-B-13	21.5	10/19/15	WG	Temperature	14.06	deg C	CAPA-16-105569
03-B-13	21.5	04/17/15	WG	Temperature	13.11	deg C	CAPA-15-93432

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
03-B-13	21.5	10/14/14	WG	Temperature	14.66	deg C	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Temperature	12.52	deg C	CAPA-14-56383
03-B-13	21.5	04/04/16	WG	Turbidity	1.8	NTU[d]	CAPA-16-114704
03-B-13	21.5	10/19/15	WG	Turbidity	15.2	NTU	CAPA-16-105569
03-B-13	21.5	04/17/15	WG	Turbidity	5.5	NTU	CAPA-15-93432
03-B-13	21.5	10/14/14	WG	Turbidity	49.4	NTU	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Turbidity	56.1	NTU	CAPA-14-56383
PCI-2	512	04/14/16	WG	Dissolved Oxygen	8.07	mg/L	CAPA-16-114708
PCI-2	512	11/03/15	WG	Dissolved Oxygen	7.95	mg/L	CAPA-16-105570
PCI-2	512	04/06/15	WG	Dissolved Oxygen	8.29	mg/L	CAPA-15-93436
PCI-2	512	10/27/14	WG	Dissolved Oxygen	8.07	mg/L	CAPA-14-89328
PCI-2	512	04/08/14	WG	Dissolved Oxygen	8.24	mg/L	CAPA-14-56387
PCI-2	512	04/14/16	WG	Flow (in gpm)	0.48	gpm	CAPA-16-114708
PCI-2	512	11/03/15	WG	Flow (in gpm)	0.44	gpm	CAPA-16-105570
PCI-2	512	04/06/15	WG	Flow (in gpm)	0.48	gpm	CAPA-15-93436
PCI-2	512	10/27/14	WG	Flow (in gpm)	0.47	gpm	CAPA-14-89328
PCI-2	512	04/08/14	WG	Flow (in gpm)	0.47	gpm	CAPA-14-56387
PCI-2	512	04/14/16	WG	Oxidation-Reduction Potential	293.3	mV	CAPA-16-114708
PCI-2	512	11/03/15	WG	Oxidation-Reduction Potential	106	mV	CAPA-16-105570
PCI-2	512	04/06/15	WG	Oxidation-Reduction Potential	114	mV	CAPA-15-93436
PCI-2	512	10/27/14	WG	Oxidation-Reduction Potential	162	mV	CAPA-14-89328
PCI-2	512	04/08/14	WG	Oxidation-Reduction Potential	131	mV	CAPA-14-56387
PCI-2	512	04/14/16	WG	pH	6.91	SU	CAPA-16-114708
PCI-2	512	11/03/15	WG	pH	6.82	SU	CAPA-16-105570
PCI-2	512	04/06/15	WG	pH	6.74	SU	CAPA-15-93436
PCI-2	512	10/27/14	WG	pH	7.15	SU	CAPA-14-89328
PCI-2	512	04/08/14	WG	pH	7.45	SU	CAPA-14-56387
PCI-2	512	04/14/16	WG	Specific Conductance	111	µS/cm	CAPA-16-114708

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
PCI-2	512	11/03/15	WG	Specific Conductance	109	µS/cm	CAPA-16-105570
PCI-2	512	04/06/15	WG	Specific Conductance	110	µS/cm	CAPA-15-93436
PCI-2	512	10/27/14	WG	Specific Conductance	109	µS/cm	CAPA-14-89328
PCI-2	512	04/08/14	WG	Specific Conductance	107	µS/cm	CAPA-14-56387
PCI-2	512	04/14/16	WG	Temperature	13.7	deg C	CAPA-16-114708
PCI-2	512	11/03/15	WG	Temperature	13.54	deg C	CAPA-16-105570
PCI-2	512	04/06/15	WG	Temperature	13.64	deg C	CAPA-15-93436
PCI-2	512	10/27/14	WG	Temperature	13.65	deg C	CAPA-14-89328
PCI-2	512	04/08/14	WG	Temperature	13.84	deg C	CAPA-14-56387
PCI-2	512	04/14/16	WG	Turbidity	0.47	NTU	CAPA-16-114708
PCI-2	512	11/03/15	WG	Turbidity	0.3	NTU	CAPA-16-105570
PCI-2	512	04/06/15	WG	Turbidity	0.1	NTU	CAPA-15-93436
PCI-2	512	10/27/14	WG	Turbidity	1	NTU	CAPA-14-89328
PCI-2	512	04/08/14	WG	Turbidity	0.6	NTU	CAPA-14-56387
R-20 S1	904.6	04/13/16	WG	Dissolved Oxygen	2.46	mg/L	CAPA-16-114711
R-20 S1	904.6	04/21/15	WG	Dissolved Oxygen	2.87	mg/L	CAPA-15-93442
R-20 S1	904.6	10/31/14	WG	Dissolved Oxygen	2.87	mg/L	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Dissolved Oxygen	2.38	mg/L	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Dissolved Oxygen	2.18	mg/L	CAPA-14-49376
R-20 S1	904.6	04/13/16	WG	Flow (in gpm)	0.77	gpm	CAPA-16-114711
R-20 S1	904.6	04/21/15	WG	Flow (in gpm)	0.8	gpm	CAPA-15-93442
R-20 S1	904.6	10/31/14	WG	Flow (in gpm)	0.66	gpm	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Flow (in gpm)	0.7	gpm	CAPA-14-57731
R-20 S1	904.6	07/27/11	WG	Flow (in gpm)	0.46	gpm	CAPA-11-22877
R-20 S1	904.6	04/13/16	WG	Oxidation-Reduction Potential	-208.3	mV	CAPA-16-114711
R-20 S1	904.6	04/21/15	WG	Oxidation-Reduction Potential	-17.8	mV	CAPA-15-93442
R-20 S1	904.6	10/31/14	WG	Oxidation-Reduction Potential	19.3	mV	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Oxidation-Reduction Potential	-43.4	mV	CAPA-14-57731

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S1	904.6	12/17/13	WG	Oxidation-Reduction Potential	-19.2	mV	CAPA-14-49376
R-20 S1	904.6	04/13/16	WG	pH	8.49	SU	CAPA-16-114711
R-20 S1	904.6	04/21/15	WG	pH	8.35	SU	CAPA-15-93442
R-20 S1	904.6	10/31/14	WG	pH	8.38	SU	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	pH	8.26	SU	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	pH	8.28	SU	CAPA-14-49376
R-20 S1	904.6	04/13/16	WG	Specific Conductance	162	µS/cm	CAPA-16-114711
R-20 S1	904.6	04/21/15	WG	Specific Conductance	139	µS/cm	CAPA-15-93442
R-20 S1	904.6	10/31/14	WG	Specific Conductance	138	µS/cm	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Specific Conductance	140	µS/cm	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Specific Conductance	142	µS/cm	CAPA-14-49376
R-20 S1	904.6	04/13/16	WG	Temperature	18.49	deg C	CAPA-16-114711
R-20 S1	904.6	04/21/15	WG	Temperature	19.03	deg C	CAPA-15-93442
R-20 S1	904.6	10/31/14	WG	Temperature	18.43	deg C	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Temperature	18.14	deg C	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Temperature	17.29	deg C	CAPA-14-49376
R-20 S1	904.6	04/13/16	WG	Turbidity	3.8	NTU	CAPA-16-114711
R-20 S1	904.6	04/21/15	WG	Turbidity	2.7	NTU	CAPA-15-93442
R-20 S1	904.6	10/31/14	WG	Turbidity	6	NTU	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Turbidity	2.43	NTU	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Turbidity	0.3	NTU	CAPA-14-49376
R-20 S2	1147.1	04/11/16	WG	Dissolved Oxygen	2.04	mg/L	CAPA-16-114712
R-20 S2	1147.1	10/26/15	WG	Dissolved Oxygen	2.56	mg/L	CAPA-16-105572
R-20 S2	1147.1	04/16/15	WG	Dissolved Oxygen	2.71	mg/L	CAPA-15-93443
R-20 S2	1147.1	10/20/14	WG	Dissolved Oxygen	2.65	mg/L	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Dissolved Oxygen	3.26	mg/L	CAPA-14-57732
R-20 S2	1147.1	04/11/16	WG	Flow (in gpm)	1.7	gpm	CAPA-16-114712
R-20 S2	1147.1	10/26/15	WG	Flow (in gpm)	1.78	gpm	CAPA-16-105572

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S2	1147.1	04/16/15	WG	Flow (in gpm)	1.64	gpm	CAPA-15-93443
R-20 S2	1147.1	10/20/14	WG	Flow (in gpm)	1.6	gpm	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Flow (in gpm)	1.6	gpm	CAPA-14-57732
R-20 S2	1147.1	04/11/16	WG	Oxidation-Reduction Potential	-103.9	mV	CAPA-16-114712
R-20 S2	1147.1	10/26/15	WG	Oxidation-Reduction Potential	-21.1	mV	CAPA-16-105572
R-20 S2	1147.1	04/16/15	WG	Oxidation-Reduction Potential	0.4	mV	CAPA-15-93443
R-20 S2	1147.1	10/20/14	WG	Oxidation-Reduction Potential	-14.3	mV	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Oxidation-Reduction Potential	-7.1	mV	CAPA-14-57732
R-20 S2	1147.1	04/11/16	WG	pH	7.74	SU	CAPA-16-114712
R-20 S2	1147.1	10/26/15	WG	pH	7.76	SU	CAPA-16-105572
R-20 S2	1147.1	04/16/15	WG	pH	7.93	SU	CAPA-15-93443
R-20 S2	1147.1	10/20/14	WG	pH	7.69	SU	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	pH	7.83	SU	CAPA-14-57732
R-20 S2	1147.1	04/11/16	WG	Specific Conductance	147	µS/cm	CAPA-16-114712
R-20 S2	1147.1	10/26/15	WG	Specific Conductance	149	µS/cm	CAPA-16-105572
R-20 S2	1147.1	04/16/15	WG	Specific Conductance	148	µS/cm	CAPA-15-93443
R-20 S2	1147.1	10/20/14	WG	Specific Conductance	148	µS/cm	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Specific Conductance	147	µS/cm	CAPA-14-57732
R-20 S2	1147.1	04/11/16	WG	Temperature	19.03	deg C	CAPA-16-114712
R-20 S2	1147.1	10/26/15	WG	Temperature	19.53	deg C	CAPA-16-105572
R-20 S2	1147.1	04/16/15	WG	Temperature	19.84	deg C	CAPA-15-93443
R-20 S2	1147.1	10/20/14	WG	Temperature	19.98	deg C	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Temperature	20.58	deg C	CAPA-14-57732
R-20 S2	1147.1	04/11/16	WG	Turbidity	1.1	NTU	CAPA-16-114712
R-20 S2	1147.1	10/26/15	WG	Turbidity	1.7	NTU	CAPA-16-105572
R-20 S2	1147.1	04/16/15	WG	Turbidity	0.45	NTU	CAPA-15-93443
R-20 S2	1147.1	10/20/14	WG	Turbidity	0.45	NTU	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Turbidity	0.8	NTU	CAPA-14-57732

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-21	888.8	04/05/16	WG	Dissolved Oxygen	6.36	mg/L	CAMO-16-114792
R-21	888.8	01/06/16	WG	Dissolved Oxygen	6.21	mg/L	CAMO-16-109705
R-21	888.8	10/20/15	WG	Dissolved Oxygen	6.33	mg/L	CAMO-16-105763
R-21	888.8	07/07/15	WG	Dissolved Oxygen	6.42	mg/L	CAMO-15-100749
R-21	888.8	04/06/15	WG	Dissolved Oxygen	6.46	mg/L	CAMO-15-94134
R-21	888.8	04/05/16	WG	Flow (in gpm)	3.3	gpm	CAMO-16-114792
R-21	888.8	01/06/16	WG	Flow (in gpm)	3.3	gpm	CAMO-16-109705
R-21	888.8	10/20/15	WG	Flow (in gpm)	3.22	gpm	CAMO-16-105763
R-21	888.8	07/07/15	WG	Flow (in gpm)	3.13	gpm	CAMO-15-100749
R-21	888.8	04/06/15	WG	Flow (in gpm)	3.3	gpm	CAMO-15-94134
R-21	888.8	04/05/16	WG	Oxidation-Reduction Potential	153	mV	CAMO-16-114792
R-21	888.8	01/06/16	WG	Oxidation-Reduction Potential	79.8	mV	CAMO-16-109705
R-21	888.8	10/20/15	WG	Oxidation-Reduction Potential	75.8	mV	CAMO-16-105763
R-21	888.8	07/07/15	WG	Oxidation-Reduction Potential	141.1	mV	CAMO-15-100749
R-21	888.8	04/06/15	WG	Oxidation-Reduction Potential	216.3	mV	CAMO-15-94134
R-21	888.8	04/05/16	WG	pH	7.9	SU	CAMO-16-114792
R-21	888.8	01/06/16	WG	pH	7.81	SU	CAMO-16-109705
R-21	888.8	10/20/15	WG	pH	7.87	SU	CAMO-16-105763
R-21	888.8	07/07/15	WG	pH	7.94	SU	CAMO-15-100749
R-21	888.8	04/06/15	WG	pH	8.01	SU	CAMO-15-94134
R-21	888.8	04/05/16	WG	Specific Conductance	132	µS/cm	CAMO-16-114792
R-21	888.8	01/06/16	WG	Specific Conductance	126	µS/cm	CAMO-16-109705
R-21	888.8	10/20/15	WG	Specific Conductance	127	µS/cm	CAMO-16-105763
R-21	888.8	07/07/15	WG	Specific Conductance	126	µS/cm	CAMO-15-100749
R-21	888.8	04/06/15	WG	Specific Conductance	129	µS/cm	CAMO-15-94134
R-21	888.8	04/05/16	WG	Temperature	21.18	deg C	CAMO-16-114792
R-21	888.8	01/06/16	WG	Temperature	18.28	deg C	CAMO-16-109705
R-21	888.8	10/20/15	WG	Temperature	20.88	deg C	CAMO-16-105763

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-21	888.8	07/07/15	WG	Temperature	21.57	deg C	CAMO-15-100749
R-21	888.8	04/06/15	WG	Temperature	21.51	deg C	CAMO-15-94134
R-21	888.8	04/05/16	WG	Turbidity	0.48	NTU	CAMO-16-114792
R-21	888.8	01/06/16	WG	Turbidity	0.22	NTU	CAMO-16-109705
R-21	888.8	10/20/15	WG	Turbidity	0	NTU	CAMO-16-105763
R-21	888.8	07/07/15	WG	Turbidity	0	NTU	CAMO-15-100749
R-21	888.8	04/06/15	WG	Turbidity	0.25	NTU	CAMO-15-94134
R-23	816	04/13/16	WG	Dissolved Oxygen	6.84	mg/L	CAPA-16-114713
R-23	816	01/11/16	WG	Dissolved Oxygen	6.41	mg/L	CAPA-16-109794
R-23	816	10/29/15	WG	Dissolved Oxygen	6.46	mg/L	CAPA-16-105573
R-23	816	07/09/15	WG	Dissolved Oxygen	6.87	mg/L	CAPA-15-100771
R-23	816	04/08/15	WG	Dissolved Oxygen	6.54	mg/L	CAPA-15-93444
R-23	816	04/13/16	WG	Flow (in gpm)	10.71	gpm	CAPA-16-114713
R-23	816	01/11/16	WG	Flow (in gpm)	10.7	gpm	CAPA-16-109794
R-23	816	10/29/15	WG	Flow (in gpm)	11.1	gpm	CAPA-16-105573
R-23	816	07/09/15	WG	Flow (in gpm)	11.5	gpm	CAPA-15-100771
R-23	816	04/08/15	WG	Flow (in gpm)	10.71	gpm	CAPA-15-93444
R-23	816	04/13/16	WG	Oxidation-Reduction Potential	170.7	mV	CAPA-16-114713
R-23	816	01/11/16	WG	Oxidation-Reduction Potential	121.8	mV	CAPA-16-109794
R-23	816	10/29/15	WG	Oxidation-Reduction Potential	144.2	mV	CAPA-16-105573
R-23	816	07/09/15	WG	Oxidation-Reduction Potential	106.3	mV	CAPA-15-100771
R-23	816	04/08/15	WG	Oxidation-Reduction Potential	182.7	mV	CAPA-15-93444
R-23	816	04/13/16	WG	pH	7.91	SU	CAPA-16-114713
R-23	816	01/11/16	WG	pH	7.81	SU	CAPA-16-109794
R-23	816	10/29/15	WG	pH	7.88	SU	CAPA-16-105573
R-23	816	07/09/15	WG	pH	7.97	SU	CAPA-15-100771
R-23	816	04/08/15	WG	pH	7.96	SU	CAPA-15-93444
R-23	816	04/13/16	WG	Specific Conductance	171	µS/cm	CAPA-16-114713

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23	816	01/11/16	WG	Specific Conductance	171	µS/cm	CAPA-16-109794
R-23	816	10/29/15	WG	Specific Conductance	169	µS/cm	CAPA-16-105573
R-23	816	07/09/15	WG	Specific Conductance	181	µS/cm	CAPA-15-100771
R-23	816	04/08/15	WG	Specific Conductance	170	µS/cm	CAPA-15-93444
R-23	816	04/13/16	WG	Temperature	21.49	deg C	CAPA-16-114713
R-23	816	01/11/16	WG	Temperature	18.34	deg C	CAPA-16-109794
R-23	816	10/29/15	WG	Temperature	19.77	deg C	CAPA-16-105573
R-23	816	07/09/15	WG	Temperature	21.32	deg C	CAPA-15-100771
R-23	816	04/08/15	WG	Temperature	20.92	deg C	CAPA-15-93444
R-23	816	04/13/16	WG	Turbidity	0.4	NTU	CAPA-16-114713
R-23	816	01/11/16	WG	Turbidity	1	NTU	CAPA-16-109794
R-23	816	10/29/15	WG	Turbidity	1.33	NTU	CAPA-16-105573
R-23	816	07/09/15	WG	Turbidity	0	NTU	CAPA-15-100771
R-23	816	04/08/15	WG	Turbidity	0.95	NTU	CAPA-15-93444
R-23i S1	400.3	04/11/16	WG	Dissolved Oxygen	6.98	mg/L	CAPA-16-114714
R-23i S1	400.3	10/26/15	WG	Dissolved Oxygen	6.94	mg/L	CAPA-16-105574
R-23i S1	400.3	04/07/15	WG	Dissolved Oxygen	6.54	mg/L	CAPA-15-93445
R-23i S1	400.3	10/20/14	WG	Dissolved Oxygen	6.78	mg/L	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Dissolved Oxygen	6.54	mg/L	CAPA-14-57734
R-23i S1	400.3	04/11/16	WG	Flow (in gpm)	1.2	gpm	CAPA-16-114714
R-23i S1	400.3	10/26/15	WG	Flow (in gpm)	1.5	gpm	CAPA-16-105574
R-23i S1	400.3	04/07/15	WG	Flow (in gpm)	1.06	gpm	CAPA-15-93445
R-23i S1	400.3	10/20/14	WG	Flow (in gpm)	1	gpm	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Flow (in gpm)	1.3	gpm	CAPA-14-57734
R-23i S1	400.3	04/11/16	WG	Oxidation-Reduction Potential	-130.8	mV	CAPA-16-114714
R-23i S1	400.3	10/26/15	WG	Oxidation-Reduction Potential	177.7	mV	CAPA-16-105574
R-23i S1	400.3	04/07/15	WG	Oxidation-Reduction Potential	217.6	mV	CAPA-15-93445
R-23i S1	400.3	10/20/14	WG	Oxidation-Reduction Potential	-45.9	mV	CAPA-14-87185

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S1	400.3	04/16/14	WG	Oxidation-Reduction Potential	86.3	mV	CAPA-14-57734
R-23i S1	400.3	04/11/16	WG	pH	7.55	SU	CAPA-16-114714
R-23i S1	400.3	10/26/15	WG	pH	6.86	SU	CAPA-16-105574
R-23i S1	400.3	04/07/15	WG	pH	7.73	SU	CAPA-15-93445
R-23i S1	400.3	10/20/14	WG	pH	7.55	SU	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	pH	7.51	SU	CAPA-14-57734
R-23i S1	400.3	04/11/16	WG	Specific Conductance	416	µS/cm	CAPA-16-114714
R-23i S1	400.3	10/26/15	WG	Specific Conductance	298	µS/cm	CAPA-16-105574
R-23i S1	400.3	04/07/15	WG	Specific Conductance	307	µS/cm	CAPA-15-93445
R-23i S1	400.3	10/20/14	WG	Specific Conductance	308	µS/cm	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Specific Conductance	411	µS/cm	CAPA-14-57734
R-23i S1	400.3	04/11/16	WG	Temperature	15.14	deg C	CAPA-16-114714
R-23i S1	400.3	10/26/15	WG	Temperature	15.18	deg C	CAPA-16-105574
R-23i S1	400.3	04/07/15	WG	Temperature	15.15	deg C	CAPA-15-93445
R-23i S1	400.3	10/20/14	WG	Temperature	15.19	deg C	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Temperature	15.15	deg C	CAPA-14-57734
R-23i S1	400.3	04/11/16	WG	Turbidity	2.6	NTU	CAPA-16-114714
R-23i S1	400.3	10/26/15	WG	Turbidity	0.6	NTU	CAPA-16-105574
R-23i S1	400.3	04/07/15	WG	Turbidity	1.9	NTU	CAPA-15-93445
R-23i S1	400.3	10/20/14	WG	Turbidity	2.8	NTU	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Turbidity	8.5	NTU	CAPA-14-57734
R-23i S2	470.2	04/11/16	WG	Dissolved Oxygen	6.11	mg/L	CAPA-16-114715
R-23i S2	470.2	10/26/15	WG	Dissolved Oxygen	6	mg/L	CAPA-16-105575
R-23i S2	470.2	04/07/15	WG	Dissolved Oxygen	5.97	mg/L	CAPA-15-93446
R-23i S2	470.2	10/29/14	WG	Dissolved Oxygen	6.41	mg/L	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Dissolved Oxygen	6	mg/L	CAPA-14-57735
R-23i S2	470.2	04/11/16	WG	Flow (in gpm)	0.96	gpm	CAPA-16-114715
R-23i S2	470.2	10/26/15	WG	Flow (in gpm)	0.92	gpm	CAPA-16-105575

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S2	470.2	04/07/15	WG	Flow (in gpm)	1	gpm	CAPA-15-93446
R-23i S2	470.2	10/29/14	WG	Flow (in gpm)	1.17	gpm	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Flow (in gpm)	1.2	gpm	CAPA-14-57735
R-23i S2	470.2	04/11/16	WG	Oxidation-Reduction Potential	-149.7	mV	CAPA-16-114715
R-23i S2	470.2	10/26/15	WG	Oxidation-Reduction Potential	130.1	mV	CAPA-16-105575
R-23i S2	470.2	04/07/15	WG	Oxidation-Reduction Potential	248	mV	CAPA-15-93446
R-23i S2	470.2	10/29/14	WG	Oxidation-Reduction Potential	165.2	mV	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Oxidation-Reduction Potential	120.3	mV	CAPA-14-57735
R-23i S2	470.2	04/11/16	WG	pH	7.98	SU	CAPA-16-114715
R-23i S2	470.2	10/26/15	WG	pH	7.89	SU	CAPA-16-105575
R-23i S2	470.2	04/07/15	WG	pH	8.23	SU	CAPA-15-93446
R-23i S2	470.2	10/29/14	WG	pH	8.2	SU	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	pH	8.13	SU	CAPA-14-57735
R-23i S2	470.2	04/11/16	WG	Specific Conductance	218	µS/cm	CAPA-16-114715
R-23i S2	470.2	10/26/15	WG	Specific Conductance	207	µS/cm	CAPA-16-105575
R-23i S2	470.2	04/07/15	WG	Specific Conductance	204	µS/cm	CAPA-15-93446
R-23i S2	470.2	10/29/14	WG	Specific Conductance	205	µS/cm	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Specific Conductance	204	µS/cm	CAPA-14-57735
R-23i S2	470.2	04/11/16	WG	Temperature	15.42	deg C	CAPA-16-114715
R-23i S2	470.2	10/26/15	WG	Temperature	15.37	deg C	CAPA-16-105575
R-23i S2	470.2	04/07/15	WG	Temperature	16.3	deg C	CAPA-15-93446
R-23i S2	470.2	10/29/14	WG	Temperature	16.02	deg C	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Temperature	16.41	deg C	CAPA-14-57735
R-23i S2	470.2	04/11/16	WG	Turbidity	1.13	NTU	CAPA-16-114715
R-23i S2	470.2	10/26/15	WG	Turbidity	0.3	NTU	CAPA-16-105575
R-23i S2	470.2	04/07/15	WG	Turbidity	0.2	NTU	CAPA-15-93446
R-23i S2	470.2	10/29/14	WG	Turbidity	1.3	NTU	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Turbidity	1.2	NTU	CAPA-14-57735

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S3	524	04/18/16	WG	Dissolved Oxygen	6.82	mg/L	CAPA-16-114716
R-23i S3	524	11/02/15	WG	Dissolved Oxygen	6.42	mg/L	CAPA-16-105576
R-23i S3	524	04/08/15	WG	Dissolved Oxygen	7.55	mg/L	CAPA-15-93447
R-23i S3	524	01/13/15	WG	Dissolved Oxygen	6.95	mg/L	CAPA-15-92459
R-23i S3	524	10/20/14	WG	Dissolved Oxygen	6.92	mg/L	CAPA-14-87187
R-23i S3	524	04/18/16	WG	Flow (in gpm)	1.64	gpm	CAPA-16-114716
R-23i S3	524	11/02/15	WG	Flow (in gpm)	1.63	gpm	CAPA-16-105576
R-23i S3	524	04/08/15	WG	Flow (in gpm)	1.8	gpm	CAPA-15-93447
R-23i S3	524	01/13/15	WG	Flow (in gpm)	1.74	gpm	CAPA-15-92459
R-23i S3	524	10/20/14	WG	Flow (in gpm)	1.54	gpm	CAPA-14-87187
R-23i S3	524	04/18/16	WG	Oxidation-Reduction Potential	-138.6	mV	CAPA-16-114716
R-23i S3	524	11/02/15	WG	Oxidation-Reduction Potential	81.3	mV	CAPA-16-105576
R-23i S3	524	04/08/15	WG	Oxidation-Reduction Potential	133.9	mV	CAPA-15-93447
R-23i S3	524	01/13/15	WG	Oxidation-Reduction Potential	-112.8	mV	CAPA-15-92459
R-23i S3	524	10/20/14	WG	Oxidation-Reduction Potential	99.9	mV	CAPA-14-87187
R-23i S3	524	04/18/16	WG	pH	8.27	SU	CAPA-16-114716
R-23i S3	524	11/02/15	WG	pH	7.92	SU	CAPA-16-105576
R-23i S3	524	04/08/15	WG	pH	8.21	SU	CAPA-15-93447
R-23i S3	524	01/13/15	WG	pH	8.12	SU	CAPA-15-92459
R-23i S3	524	10/20/14	WG	pH	8.28	SU	CAPA-14-87187
R-23i S3	524	04/18/16	WG	Specific Conductance	221	µS/cm	CAPA-16-114716
R-23i S3	524	11/02/15	WG	Specific Conductance	201	µS/cm	CAPA-16-105576
R-23i S3	524	04/08/15	WG	Specific Conductance	200	µS/cm	CAPA-15-93447
R-23i S3	524	01/13/15	WG	Specific Conductance	195	µS/cm	CAPA-15-92459
R-23i S3	524	10/20/14	WG	Specific Conductance	202	µS/cm	CAPA-14-87187
R-23i S3	524	04/18/16	WG	Temperature	16.98	deg C	CAPA-16-114716
R-23i S3	524	11/02/15	WG	Temperature	17.71	deg C	CAPA-16-105576
R-23i S3	524	04/08/15	WG	Temperature	17.97	deg C	CAPA-15-93447

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S3	524	01/13/15	WG	Temperature	15.96	deg C	CAPA-15-92459
R-23i S3	524	10/20/14	WG	Temperature	17.99	deg C	CAPA-14-87187
R-23i S3	524	04/18/16	WG	Turbidity	0.66	NTU	CAPA-16-114716
R-23i S3	524	11/02/15	WG	Turbidity	0.29	NTU	CAPA-16-105576
R-23i S3	524	04/08/15	WG	Turbidity	1.26	NTU	CAPA-15-93447
R-23i S3	524	01/13/15	WG	Turbidity	0.9	NTU	CAPA-15-92459
R-23i S3	524	10/20/14	WG	Turbidity	1.4	NTU	CAPA-14-87187
R-32 S1	867.5	04/15/16	WG	Dissolved Oxygen	4.43	mg/L	CAPA-16-114717
R-32 S1	867.5	01/08/16	WG	Dissolved Oxygen	4.39	mg/L	CAPA-16-109795
R-32 S1	867.5	11/02/15	WG	Dissolved Oxygen	4.77	mg/L	CAPA-16-105577
R-32 S1	867.5	07/13/15	WG	Dissolved Oxygen	5.37	mg/L	CAPA-15-100772
R-32 S1	867.5	04/17/15	WG	Dissolved Oxygen	4.47	mg/L	CAPA-15-93448
R-32 S1	867.5	04/15/16	WG	Flow (in gpm)	2.21	gpm	CAPA-16-114717
R-32 S1	867.5	01/08/16	WG	Flow (in gpm)	2.16	gpm	CAPA-16-109795
R-32 S1	867.5	11/02/15	WG	Flow (in gpm)	2.24	gpm	CAPA-16-105577
R-32 S1	867.5	07/13/15	WG	Flow (in gpm)	2.67	gpm	CAPA-15-100772
R-32 S1	867.5	04/17/15	WG	Flow (in gpm)	2.2	gpm	CAPA-15-93448
R-32 S1	867.5	04/15/16	WG	Oxidation-Reduction Potential	277.9	mV	CAPA-16-114717
R-32 S1	867.5	01/08/16	WG	Oxidation-Reduction Potential	91.6	mV	CAPA-16-109795
R-32 S1	867.5	11/02/15	WG	Oxidation-Reduction Potential	53.9	mV	CAPA-16-105577
R-32 S1	867.5	07/13/15	WG	Oxidation-Reduction Potential	115.2	mV	CAPA-15-100772
R-32 S1	867.5	04/17/15	WG	Oxidation-Reduction Potential	55	mV	CAPA-15-93448
R-32 S1	867.5	04/15/16	WG	pH	6.99	SU	CAPA-16-114717
R-32 S1	867.5	01/08/16	WG	pH	6.87	SU	CAPA-16-109795
R-32 S1	867.5	11/02/15	WG	pH	6.83	SU	CAPA-16-105577
R-32 S1	867.5	07/13/15	WG	pH	8.02	SU	CAPA-15-100772
R-32 S1	867.5	04/17/15	WG	pH	7.04	SU	CAPA-15-93448
R-32 S1	867.5	04/15/16	WG	Specific Conductance	169	µS/cm	CAPA-16-114717

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-32 S1	867.5	01/08/16	WG	Specific Conductance	165	µS/cm	CAPA-16-109795
R-32 S1	867.5	11/02/15	WG	Specific Conductance	167	µS/cm	CAPA-16-105577
R-32 S1	867.5	07/13/15	WG	Specific Conductance	176	µS/cm	CAPA-15-100772
R-32 S1	867.5	04/17/15	WG	Specific Conductance	174	µS/cm	CAPA-15-93448
R-32 S1	867.5	04/15/16	WG	Temperature	18.8	deg C	CAPA-16-114717
R-32 S1	867.5	01/08/16	WG	Temperature	18.14	deg C	CAPA-16-109795
R-32 S1	867.5	11/02/15	WG	Temperature	19.76	deg C	CAPA-16-105577
R-32 S1	867.5	07/13/15	WG	Temperature	20.97	deg C	CAPA-15-100772
R-32 S1	867.5	04/17/15	WG	Temperature	18.55	deg C	CAPA-15-93448
R-32 S1	867.5	04/15/16	WG	Turbidity	0.8	NTU	CAPA-16-114717
R-32 S1	867.5	01/08/16	WG	Turbidity	0.43	NTU	CAPA-16-109795
R-32 S1	867.5	11/02/15	WG	Turbidity	0.43	NTU	CAPA-16-105577
R-32 S1	867.5	07/13/15	WG	Turbidity	0.3	NTU	CAPA-15-100772
R-32 S1	867.5	04/17/15	WG	Turbidity	0.73	NTU	CAPA-15-93448
R-37 S1	929.3	04/12/16	WG	Dissolved Oxygen	2.08	mg/L	CAMO-16-114793
R-37 S1	929.3	01/13/16	WG	Dissolved Oxygen	2.21	mg/L	CAMO-16-109706
R-37 S1	929.3	10/21/15	WG	Dissolved Oxygen	2.2	mg/L	CAMO-16-105764
R-37 S1	929.3	07/14/15	WG	Dissolved Oxygen	2.18	mg/L	CAMO-15-100750
R-37 S1	929.3	04/08/15	WG	Dissolved Oxygen	2.18	mg/L	CAMO-15-94135
R-37 S1	929.3	04/12/16	WG	Flow (in gpm)	0.74	gpm	CAMO-16-114793
R-37 S1	929.3	01/13/16	WG	Flow (in gpm)	0.77	gpm	CAMO-16-109706
R-37 S1	929.3	10/21/15	WG	Flow (in gpm)	0.79	gpm	CAMO-16-105764
R-37 S1	929.3	07/14/15	WG	Flow (in gpm)	0.77	gpm	CAMO-15-100750
R-37 S1	929.3	04/08/15	WG	Flow (in gpm)	0.64	gpm	CAMO-15-94135
R-37 S1	929.3	04/12/16	WG	Oxidation-Reduction Potential	153	mV	CAMO-16-114793
R-37 S1	929.3	01/13/16	WG	Oxidation-Reduction Potential	128.2	mV	CAMO-16-109706
R-37 S1	929.3	10/21/15	WG	Oxidation-Reduction Potential	141.5	mV	CAMO-16-105764
R-37 S1	929.3	07/14/15	WG	Oxidation-Reduction Potential	127	mV	CAMO-15-100750

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37 S1	929.3	04/08/15	WG	Oxidation-Reduction Potential	225.8	mV	CAMO-15-94135
R-37 S1	929.3	04/12/16	WG	pH	8.18	SU	CAMO-16-114793
R-37 S1	929.3	01/13/16	WG	pH	8.13	SU	CAMO-16-109706
R-37 S1	929.3	10/21/15	WG	pH	8.25	SU	CAMO-16-105764
R-37 S1	929.3	07/14/15	WG	pH	8.26	SU	CAMO-15-100750
R-37 S1	929.3	04/08/15	WG	pH	8.35	SU	CAMO-15-94135
R-37 S1	929.3	04/12/16	WG	Specific Conductance	240	µS/cm	CAMO-16-114793
R-37 S1	929.3	01/13/16	WG	Specific Conductance	241	µS/cm	CAMO-16-109706
R-37 S1	929.3	10/21/15	WG	Specific Conductance	236	µS/cm	CAMO-16-105764
R-37 S1	929.3	07/14/15	WG	Specific Conductance	244	µS/cm	CAMO-15-100750
R-37 S1	929.3	04/08/15	WG	Specific Conductance	233	µS/cm	CAMO-15-94135
R-37 S1	929.3	04/12/16	WG	Temperature	17.46	deg C	CAMO-16-114793
R-37 S1	929.3	01/13/16	WG	Temperature	14.19	deg C	CAMO-16-109706
R-37 S1	929.3	10/21/15	WG	Temperature	17.16	deg C	CAMO-16-105764
R-37 S1	929.3	07/14/15	WG	Temperature	17.9	deg C	CAMO-15-100750
R-37 S1	929.3	04/08/15	WG	Temperature	17.66	deg C	CAMO-15-94135
R-37 S1	929.3	04/12/16	WG	Turbidity	0.93	NTU	CAMO-16-114793
R-37 S1	929.3	01/13/16	WG	Turbidity	0.3	NTU	CAMO-16-109706
R-37 S1	929.3	10/21/15	WG	Turbidity	0.48	NTU	CAMO-16-105764
R-37 S1	929.3	07/14/15	WG	Turbidity	0.15	NTU	CAMO-15-100750
R-37 S1	929.3	04/08/15	WG	Turbidity	0.18	NTU	CAMO-15-94135
R-37 S2	1026	04/08/16	WG	Dissolved Oxygen	6.36	mg/L	CAMO-16-114794
R-37 S2	1026	01/13/16	WG	Dissolved Oxygen	6.87	mg/L	CAMO-16-109707
R-37 S2	1026	10/28/15	WG	Dissolved Oxygen	6.79	mg/L	CAMO-16-105765
R-37 S2	1026	07/08/15	WG	Dissolved Oxygen	7.88	mg/L	CAMO-15-100751
R-37 S2	1026	04/09/15	WG	Dissolved Oxygen	6.23	mg/L	CAMO-15-94136
R-37 S2	1026	04/08/16	WG	Flow (in gpm)	10.34	gpm	CAMO-16-114794
R-37 S2	1026	01/13/16	WG	Flow (in gpm)	10	gpm	CAMO-16-109707

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37 S2	1026	10/28/15	WG	Flow (in gpm)	10	gpm	CAMO-16-105765
R-37 S2	1026	07/08/15	WG	Flow (in gpm)	10	gpm	CAMO-15-100751
R-37 S2	1026	04/09/15	WG	Flow (in gpm)	9.3	gpm	CAMO-15-94136
R-37 S2	1026	04/08/16	WG	Oxidation-Reduction Potential	-190	mV	CAMO-16-114794
R-37 S2	1026	01/13/16	WG	Oxidation-Reduction Potential	85.1	mV	CAMO-16-109707
R-37 S2	1026	10/28/15	WG	Oxidation-Reduction Potential	81.7	mV	CAMO-16-105765
R-37 S2	1026	07/08/15	WG	Oxidation-Reduction Potential	131.2	mV	CAMO-15-100751
R-37 S2	1026	04/09/15	WG	Oxidation-Reduction Potential	84.4	mV	CAMO-15-94136
R-37 S2	1026	04/08/16	WG	pH	8.09	SU	CAMO-16-114794
R-37 S2	1026	01/13/16	WG	pH	7.61	SU	CAMO-16-109707
R-37 S2	1026	10/28/15	WG	pH	7.78	SU	CAMO-16-105765
R-37 S2	1026	07/08/15	WG	pH	7.9	SU	CAMO-15-100751
R-37 S2	1026	04/09/15	WG	pH	7.98	SU	CAMO-15-94136
R-37 S2	1026	04/08/16	WG	Specific Conductance	159	µS/cm	CAMO-16-114794
R-37 S2	1026	01/13/16	WG	Specific Conductance	139	µS/cm	CAMO-16-109707
R-37 S2	1026	10/28/15	WG	Specific Conductance	138	µS/cm	CAMO-16-105765
R-37 S2	1026	07/08/15	WG	Specific Conductance	148	µS/cm	CAMO-15-100751
R-37 S2	1026	04/09/15	WG	Specific Conductance	136	µS/cm	CAMO-15-94136
R-37 S2	1026	04/08/16	WG	Temperature	20.09	deg C	CAMO-16-114794
R-37 S2	1026	01/13/16	WG	Temperature	14.58	deg C	CAMO-16-109707
R-37 S2	1026	10/28/15	WG	Temperature	20	deg C	CAMO-16-105765
R-37 S2	1026	07/08/15	WG	Temperature	21.48	deg C	CAMO-15-100751
R-37 S2	1026	04/09/15	WG	Temperature	20.98	deg C	CAMO-15-94136
R-37 S2	1026	04/08/16	WG	Turbidity	0.6	NTU	CAMO-16-114794
R-37 S2	1026	01/13/16	WG	Turbidity	0.1	NTU	CAMO-16-109707
R-37 S2	1026	10/28/15	WG	Turbidity	0.9	NTU	CAMO-16-105765
R-37 S2	1026	07/08/15	WG	Turbidity	0.7	NTU	CAMO-15-100751
R-37 S2	1026	04/09/15	WG	Turbidity	1.6	NTU	CAMO-15-94136

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-38	821.2	04/04/16	WG	Dissolved Oxygen	6.36	mg/L	CAMO-16-114795
R-38	821.2	01/06/16	WG	Dissolved Oxygen	6.37	mg/L	CAMO-16-109708
R-38	821.2	10/19/15	WG	Dissolved Oxygen	6.31	mg/L	CAMO-16-105766
R-38	821.2	07/10/15	WG	Dissolved Oxygen	6.44	mg/L	CAMO-15-100752
R-38	821.2	04/07/15	WG	Dissolved Oxygen	6.27	mg/L	CAMO-15-94137
R-38	821.2	04/04/16	WG	Flow (in gpm)	2.65	gpm	CAMO-16-114795
R-38	821.2	01/06/16	WG	Flow (in gpm)	2.54	gpm	CAMO-16-109708
R-38	821.2	10/19/15	WG	Flow (in gpm)	2.46	gpm	CAMO-16-105766
R-38	821.2	07/10/15	WG	Flow (in gpm)	3.57	gpm	CAMO-15-100752
R-38	821.2	04/07/15	WG	Flow (in gpm)	3.06	gpm	CAMO-15-94137
R-38	821.2	04/04/16	WG	Oxidation-Reduction Potential	1.1	mV	CAMO-16-114795
R-38	821.2	01/06/16	WG	Oxidation-Reduction Potential	158.7	mV	CAMO-16-109708
R-38	821.2	10/19/15	WG	Oxidation-Reduction Potential	132.2	mV	CAMO-16-105766
R-38	821.2	07/10/15	WG	Oxidation-Reduction Potential	65.8	mV	CAMO-15-100752
R-38	821.2	04/07/15	WG	Oxidation-Reduction Potential	73.5	mV	CAMO-15-94137
R-38	821.2	04/04/16	WG	pH	7.2	SU	CAMO-16-114795
R-38	821.2	01/06/16	WG	pH	7.05	SU	CAMO-16-109708
R-38	821.2	10/19/15	WG	pH	7	SU	CAMO-16-105766
R-38	821.2	07/10/15	WG	pH	7.03	SU	CAMO-15-100752
R-38	821.2	04/07/15	WG	pH	7.06	SU	CAMO-15-94137
R-38	821.2	04/04/16	WG	Specific Conductance	156	µS/cm	CAMO-16-114795
R-38	821.2	01/06/16	WG	Specific Conductance	143	µS/cm	CAMO-16-109708
R-38	821.2	10/19/15	WG	Specific Conductance	143	µS/cm	CAMO-16-105766
R-38	821.2	07/10/15	WG	Specific Conductance	141	µS/cm	CAMO-15-100752
R-38	821.2	04/07/15	WG	Specific Conductance	139	µS/cm	CAMO-15-94137
R-38	821.2	04/04/16	WG	Temperature	19.42	deg C	CAMO-16-114795
R-38	821.2	01/06/16	WG	Temperature	18.05	deg C	CAMO-16-109708
R-38	821.2	10/19/15	WG	Temperature	19	deg C	CAMO-16-105766

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-38	821.2	07/10/15	WG	Temperature	19.51	deg C	CAMO-15-100752
R-38	821.2	04/07/15	WG	Temperature	18.98	deg C	CAMO-15-94137
R-38	821.2	04/04/16	WG	Turbidity	0.58	NTU	CAMO-16-114795
R-38	821.2	01/06/16	WG	Turbidity	0.89	NTU	CAMO-16-109708
R-38	821.2	10/19/15	WG	Turbidity	0.2	NTU	CAMO-16-105766
R-38	821.2	07/10/15	WG	Turbidity	0.4	NTU	CAMO-15-100752
R-38	821.2	04/07/15	WG	Turbidity	0.1	NTU	CAMO-15-94137
R-39	859	04/13/16	WG	Dissolved Oxygen	5.93	mg/L	CAPA-16-114718
R-39	859	01/11/16	WG	Dissolved Oxygen	6.07	mg/L	CAPA-16-109796
R-39	859	10/29/15	WG	Dissolved Oxygen	6.09	mg/L	CAPA-16-105578
R-39	859	07/07/15	WG	Dissolved Oxygen	6.17	mg/L	CAPA-15-100773
R-39	859	04/23/15	WG	Dissolved Oxygen	5.98	mg/L	CAPA-15-93449
R-39	859	04/13/16	WG	Flow (in gpm)	2.19	gpm	CAPA-16-114718
R-39	859	01/11/16	WG	Flow (in gpm)	2.26	gpm	CAPA-16-109796
R-39	859	10/29/15	WG	Flow (in gpm)	229	gpm	CAPA-16-105578
R-39	859	07/07/15	WG	Flow (in gpm)	2.1	gpm	CAPA-15-100773
R-39	859	04/23/15	WG	Flow (in gpm)	1.96	gpm	CAPA-15-93449
R-39	859	04/13/16	WG	Oxidation-Reduction Potential	313.5	mV	CAPA-16-114718
R-39	859	01/11/16	WG	Oxidation-Reduction Potential	115.7	mV	CAPA-16-109796
R-39	859	10/29/15	WG	Oxidation-Reduction Potential	78.6	mV	CAPA-16-105578
R-39	859	07/07/15	WG	Oxidation-Reduction Potential	100.9	mV	CAPA-15-100773
R-39	859	04/23/15	WG	Oxidation-Reduction Potential	210.9	mV	CAPA-15-93449
R-39	859	04/13/16	WG	pH	6.73	SU	CAPA-16-114718
R-39	859	01/11/16	WG	pH	6.71	SU	CAPA-16-109796
R-39	859	10/29/15	WG	pH	6.84	SU	CAPA-16-105578
R-39	859	07/07/15	WG	pH	6.91	SU	CAPA-15-100773
R-39	859	04/23/15	WG	pH	7.03	SU	CAPA-15-93449
R-39	859	04/13/16	WG	Specific Conductance	145	µS/cm	CAPA-16-114718

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-39	859	01/11/16	WG	Specific Conductance	142	µS/cm	CAPA-16-109796
R-39	859	10/29/15	WG	Specific Conductance	145	µS/cm	CAPA-16-105578
R-39	859	07/07/15	WG	Specific Conductance	157	µS/cm	CAPA-15-100773
R-39	859	04/23/15	WG	Specific Conductance	155	µS/cm	CAPA-15-93449
R-39	859	04/13/16	WG	Temperature	20.15	deg C	CAPA-16-114718
R-39	859	01/11/16	WG	Temperature	19.37	deg C	CAPA-16-109796
R-39	859	10/29/15	WG	Temperature	19.77	deg C	CAPA-16-105578
R-39	859	07/07/15	WG	Temperature	20.43	deg C	CAPA-15-100773
R-39	859	04/23/15	WG	Temperature	20.07	deg C	CAPA-15-93449
R-39	859	04/13/16	WG	Turbidity	1.9	NTU	CAPA-16-114718
R-39	859	01/11/16	WG	Turbidity	1.8	NTU	CAPA-16-109796
R-39	859	10/29/15	WG	Turbidity	0.3	NTU	CAPA-16-105578
R-39	859	07/07/15	WG	Turbidity	1.4	NTU	CAPA-15-100773
R-39	859	04/23/15	WG	Turbidity	3.1	NTU	CAPA-15-93449
R-40 S1	751.59	04/18/16	WG	Dissolved Oxygen	1.02	mg/L	CAPA-16-114719
R-40 S1	751.59	10/29/15	WG	Dissolved Oxygen	0.95	mg/L	CAPA-16-105579
R-40 S1	751.59	04/13/15	WG	Dissolved Oxygen	1.26	mg/L	CAPA-15-93450
R-40 S1	751.59	10/28/14	WG	Dissolved Oxygen	0.86	mg/L	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Dissolved Oxygen	0.91	mg/L	CAPA-14-57739
R-40 S1	751.59	04/18/16	WG	Flow (in gpm)	0.56	gpm	CAPA-16-114719
R-40 S1	751.59	10/29/15	WG	Flow (in gpm)	0.55	gpm	CAPA-16-105579
R-40 S1	751.59	04/13/15	WG	Flow (in gpm)	0.55	gpm	CAPA-15-93450
R-40 S1	751.59	10/28/14	WG	Flow (in gpm)	0.55	gpm	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Flow (in gpm)	0.56	gpm	CAPA-14-57739
R-40 S1	751.59	04/18/16	WG	Oxidation-Reduction Potential	83.1	mV	CAPA-16-114719
R-40 S1	751.59	10/29/15	WG	Oxidation-Reduction Potential	113.1	mV	CAPA-16-105579
R-40 S1	751.59	04/13/15	WG	Oxidation-Reduction Potential	111.5	mV	CAPA-15-93450
R-40 S1	751.59	10/28/14	WG	Oxidation-Reduction Potential	84.1	mV	CAPA-14-87190

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S1	751.59	04/15/14	WG	Oxidation-Reduction Potential	23.3	mV	CAPA-14-57739
R-40 S1	751.59	04/18/16	WG	pH	9.16	SU	CAPA-16-114719
R-40 S1	751.59	10/29/15	WG	pH	9.05	SU	CAPA-16-105579
R-40 S1	751.59	04/13/15	WG	pH	9.19	SU	CAPA-15-93450
R-40 S1	751.59	10/28/14	WG	pH	9.29	SU	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	pH	9.27	SU	CAPA-14-57739
R-40 S1	751.59	04/18/16	WG	Specific Conductance	159	µS/cm	CAPA-16-114719
R-40 S1	751.59	10/29/15	WG	Specific Conductance	152	µS/cm	CAPA-16-105579
R-40 S1	751.59	04/13/15	WG	Specific Conductance	153	µS/cm	CAPA-15-93450
R-40 S1	751.59	10/28/14	WG	Specific Conductance	150	µS/cm	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Specific Conductance	153	µS/cm	CAPA-14-57739
R-40 S1	751.59	04/18/16	WG	Temperature	16.24	deg C	CAPA-16-114719
R-40 S1	751.59	10/29/15	WG	Temperature	16.53	deg C	CAPA-16-105579
R-40 S1	751.59	04/13/15	WG	Temperature	17.26	deg C	CAPA-15-93450
R-40 S1	751.59	10/28/14	WG	Temperature	16.98	deg C	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Temperature	16.89	deg C	CAPA-14-57739
R-40 S1	751.59	04/18/16	WG	Turbidity	0.35	NTU	CAPA-16-114719
R-40 S1	751.59	10/29/15	WG	Turbidity	0.3	NTU	CAPA-16-105579
R-40 S1	751.59	04/13/15	WG	Turbidity	2.17	NTU	CAPA-15-93450
R-40 S1	751.59	10/28/14	WG	Turbidity	1	NTU	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Turbidity	1	NTU	CAPA-14-57739
R-40 S2	849.27	04/15/16	WG	Dissolved Oxygen	6.94	mg/L	CAPA-16-114720
R-40 S2	849.27	10/30/15	WG	Dissolved Oxygen	6.5	mg/L	CAPA-16-105580
R-40 S2	849.27	04/10/15	WG	Dissolved Oxygen	7.65	mg/L	CAPA-15-93451
R-40 S2	849.27	10/17/14	WG	Dissolved Oxygen	6.79	mg/L	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Dissolved Oxygen	6.72	mg/L	CAPA-14-57740
R-40 S2	849.27	04/15/16	WG	Flow (in gpm)	2.08	gpm	CAPA-16-114720
R-40 S2	849.27	10/30/15	WG	Flow (in gpm)	2.01	gpm	CAPA-16-105580

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S2	849.27	04/10/15	WG	Flow (in gpm)	2.2	gpm	CAPA-15-93451
R-40 S2	849.27	10/17/14	WG	Flow (in gpm)	2	gpm	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Flow (in gpm)	2	gpm	CAPA-14-57740
R-40 S2	849.27	04/15/16	WG	Oxidation-Reduction Potential	225.9	mV	CAPA-16-114720
R-40 S2	849.27	10/30/15	WG	Oxidation-Reduction Potential	152.5	mV	CAPA-16-105580
R-40 S2	849.27	04/10/15	WG	Oxidation-Reduction Potential	196.9	mV	CAPA-15-93451
R-40 S2	849.27	10/17/14	WG	Oxidation-Reduction Potential	-19.5	mV	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Oxidation-Reduction Potential	93.5	mV	CAPA-14-57740
R-40 S2	849.27	04/15/16	WG	pH	8.23	SU	CAPA-16-114720
R-40 S2	849.27	10/30/15	WG	pH	8.17	SU	CAPA-16-105580
R-40 S2	849.27	04/10/15	WG	pH	8.25	SU	CAPA-15-93451
R-40 S2	849.27	10/17/14	WG	pH	7.99	SU	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	pH	8.13	SU	CAPA-14-57740
R-40 S2	849.27	04/15/16	WG	Specific Conductance	129	µS/cm	CAPA-16-114720
R-40 S2	849.27	10/30/15	WG	Specific Conductance	132	µS/cm	CAPA-16-105580
R-40 S2	849.27	04/10/15	WG	Specific Conductance	126	µS/cm	CAPA-15-93451
R-40 S2	849.27	10/17/14	WG	Specific Conductance	129	µS/cm	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Specific Conductance	130	µS/cm	CAPA-14-57740
R-40 S2	849.27	04/15/16	WG	Temperature	20.1	deg C	CAPA-16-114720
R-40 S2	849.27	10/30/15	WG	Temperature	20.41	deg C	CAPA-16-105580
R-40 S2	849.27	04/10/15	WG	Temperature	20.27	deg C	CAPA-15-93451
R-40 S2	849.27	10/17/14	WG	Temperature	20.71	deg C	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Temperature	20.56	deg C	CAPA-14-57740
R-40 S2	849.27	04/15/16	WG	Turbidity	0.9	NTU	CAPA-16-114720
R-40 S2	849.27	10/30/15	WG	Turbidity	0.3	NTU	CAPA-16-105580
R-40 S2	849.27	04/10/15	WG	Turbidity	0.3	NTU	CAPA-15-93451
R-40 S2	849.27	10/17/14	WG	Turbidity	0.65	NTU	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Turbidity	0.4	NTU	CAPA-14-57740

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 Si	649.67	04/18/16	WG	Dissolved Oxygen	0.29	mg/L	CAPA-16-114721
R-40 Si	649.67	10/29/15	WG	Dissolved Oxygen	0.16	mg/L	CAPA-16-105581
R-40 Si	649.67	04/13/15	WG	Dissolved Oxygen	0.44	mg/L	CAPA-15-93452
R-40 Si	649.67	10/28/14	WG	Dissolved Oxygen	0.55	mg/L	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Dissolved Oxygen	1.13	mg/L	CAPA-14-57741
R-40 Si	649.67	04/18/16	WG	Flow (in gpm)	0.79	gpm	CAPA-16-114721
R-40 Si	649.67	10/29/15	WG	Flow (in gpm)	0.75	gpm	CAPA-16-105581
R-40 Si	649.67	04/13/15	WG	Flow (in gpm)	0.66	gpm	CAPA-15-93452
R-40 Si	649.67	10/28/14	WG	Flow (in gpm)	0.58	gpm	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Flow (in gpm)	0.76	gpm	CAPA-14-57741
R-40 Si	649.67	04/18/16	WG	Oxidation-Reduction Potential	-94.2	mV	CAPA-16-114721
R-40 Si	649.67	10/29/15	WG	Oxidation-Reduction Potential	-109.6	mV	CAPA-16-105581
R-40 Si	649.67	04/13/15	WG	Oxidation-Reduction Potential	-117.9	mV	CAPA-15-93452
R-40 Si	649.67	10/28/14	WG	Oxidation-Reduction Potential	-106.6	mV	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Oxidation-Reduction Potential	-78.3	mV	CAPA-14-57741
R-40 Si	649.67	04/18/16	WG	pH	7.72	SU	CAPA-16-114721
R-40 Si	649.67	10/29/15	WG	pH	7.22	SU	CAPA-16-105581
R-40 Si	649.67	04/13/15	WG	pH	7.49	SU	CAPA-15-93452
R-40 Si	649.67	10/28/14	WG	pH	7.57	SU	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	pH	7.47	SU	CAPA-14-57741
R-40 Si	649.67	04/18/16	WG	Specific Conductance	276	µS/cm	CAPA-16-114721
R-40 Si	649.67	10/29/15	WG	Specific Conductance	287	µS/cm	CAPA-16-105581
R-40 Si	649.67	04/13/15	WG	Specific Conductance	283	µS/cm	CAPA-15-93452
R-40 Si	649.67	10/28/14	WG	Specific Conductance	267	µS/cm	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Specific Conductance	247	µS/cm	CAPA-14-57741
R-40 Si	649.67	04/18/16	WG	Temperature	16.06	deg C	CAPA-16-114721
R-40 Si	649.67	10/29/15	WG	Temperature	16.49	deg C	CAPA-16-105581
R-40 Si	649.67	04/13/15	WG	Temperature	17.47	deg C	CAPA-15-93452

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 Si	649.67	10/28/14	WG	Temperature	16.9	deg C	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Temperature	14.71	deg C	CAPA-14-57741
R-40 Si	649.67	04/18/16	WG	Turbidity	0.28	NTU	CAPA-16-114721
R-40 Si	649.67	10/29/15	WG	Turbidity	0.3	NTU	CAPA-16-105581
R-40 Si	649.67	04/13/15	WG	Turbidity	1.21	NTU	CAPA-15-93452
R-40 Si	649.67	10/28/14	WG	Turbidity	0.41	NTU	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Turbidity	0.8	NTU	CAPA-14-57741
R-41 S2	965.3	04/11/16	WG	Dissolved Oxygen	6.19	mg/L	CAPA-16-114722
R-41 S2	965.3	01/14/16	WG	Dissolved Oxygen	6.27	mg/L	CAPA-16-109797
R-41 S2	965.3	10/26/15	WG	Dissolved Oxygen	6.13	mg/L	CAPA-16-105582
R-41 S2	965.3	07/07/15	WG	Dissolved Oxygen	6.32	mg/L	CAPA-15-100774
R-41 S2	965.3	04/23/15	WG	Dissolved Oxygen	6.13	mg/L	CAPA-15-93453
R-41 S2	965.3	04/11/16	WG	Flow (in gpm)	2.78	gpm	CAPA-16-114722
R-41 S2	965.3	01/14/16	WG	Flow (in gpm)	2.7	gpm	CAPA-16-109797
R-41 S2	965.3	10/26/15	WG	Flow (in gpm)	2.7	gpm	CAPA-16-105582
R-41 S2	965.3	07/07/15	WG	Flow (in gpm)	2.7	gpm	CAPA-15-100774
R-41 S2	965.3	04/23/15	WG	Flow (in gpm)	2.65	gpm	CAPA-15-93453
R-41 S2	965.3	04/11/16	WG	Oxidation-Reduction Potential	133.8	mV	CAPA-16-114722
R-41 S2	965.3	01/14/16	WG	Oxidation-Reduction Potential	167.4	mV	CAPA-16-109797
R-41 S2	965.3	10/26/15	WG	Oxidation-Reduction Potential	98.7	mV	CAPA-16-105582
R-41 S2	965.3	07/07/15	WG	Oxidation-Reduction Potential	100.5	mV	CAPA-15-100774
R-41 S2	965.3	04/23/15	WG	Oxidation-Reduction Potential	195.8	mV	CAPA-15-93453
R-41 S2	965.3	04/11/16	WG	pH	8.16	SU	CAPA-16-114722
R-41 S2	965.3	01/14/16	WG	pH	7.97	SU	CAPA-16-109797
R-41 S2	965.3	10/26/15	WG	pH	8.05	SU	CAPA-16-105582
R-41 S2	965.3	07/07/15	WG	pH	8.05	SU	CAPA-15-100774
R-41 S2	965.3	04/23/15	WG	pH	8.12	SU	CAPA-15-93453
R-41 S2	965.3	04/11/16	WG	Specific Conductance	164	µS/cm	CAPA-16-114722

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-41 S2	965.3	01/14/16	WG	Specific Conductance	162	µS/cm	CAPA-16-109797
R-41 S2	965.3	10/26/15	WG	Specific Conductance	162	µS/cm	CAPA-16-105582
R-41 S2	965.3	07/07/15	WG	Specific Conductance	172	µS/cm	CAPA-15-100774
R-41 S2	965.3	04/23/15	WG	Specific Conductance	163	µS/cm	CAPA-15-93453
R-41 S2	965.3	04/11/16	WG	Temperature	21.63	deg C	CAPA-16-114722
R-41 S2	965.3	01/14/16	WG	Temperature	21.14	deg C	CAPA-16-109797
R-41 S2	965.3	10/26/15	WG	Temperature	21.72	deg C	CAPA-16-105582
R-41 S2	965.3	07/07/15	WG	Temperature	22.29	deg C	CAPA-15-100774
R-41 S2	965.3	04/23/15	WG	Temperature	22.23	deg C	CAPA-15-93453
R-41 S2	965.3	04/11/16	WG	Turbidity	0.7	NTU	CAPA-16-114722
R-41 S2	965.3	01/14/16	WG	Turbidity	0.53	NTU	CAPA-16-109797
R-41 S2	965.3	10/26/15	WG	Turbidity	0.54	NTU	CAPA-16-105582
R-41 S2	965.3	07/07/15	WG	Turbidity	0.35	NTU	CAPA-15-100774
R-41 S2	965.3	04/23/15	WG	Turbidity	0.33	NTU	CAPA-15-93453
R-49 S1	845	04/07/16	WG	Dissolved Oxygen	4.31	mg/L	CAPA-16-114723
R-49 S1	845	01/12/16	WG	Dissolved Oxygen	4.47	mg/L	CAPA-16-109798
R-49 S1	845	10/22/15	WG	Dissolved Oxygen	4.8	mg/L	CAPA-16-105583
R-49 S1	845	07/08/15	WG	Dissolved Oxygen	4.74	mg/L	CAPA-15-100766
R-49 S1	845	04/10/15	WG	Dissolved Oxygen	4.77	mg/L	CAPA-15-93454
R-49 S1	845	04/07/16	WG	Flow (in gpm)	1.78	gpm	CAPA-16-114723
R-49 S1	845	01/12/16	WG	Flow (in gpm)	1.55	gpm	CAPA-16-109798
R-49 S1	845	10/22/15	WG	Flow (in gpm)	1.4	gpm	CAPA-16-105583
R-49 S1	845	07/08/15	WG	Flow (in gpm)	1.1	gpm	CAPA-15-100766
R-49 S1	845	04/10/15	WG	Flow (in gpm)	2.33	gpm	CAPA-15-93454
R-49 S1	845	04/07/16	WG	Oxidation-Reduction Potential	85	mV	CAPA-16-114723
R-49 S1	845	01/12/16	WG	Oxidation-Reduction Potential	131.2	mV	CAPA-16-109798
R-49 S1	845	10/22/15	WG	Oxidation-Reduction Potential	164.7	mV	CAPA-16-105583
R-49 S1	845	04/10/15	WG	Oxidation-Reduction Potential	71.5	mV	CAPA-15-93454

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49 S1	845	10/27/14	WG	Oxidation-Reduction Potential	128.2	mV	CAPA-14-87194
R-49 S1	845	04/07/16	WG	pH	7.84	SU	CAPA-16-114723
R-49 S1	845	01/12/16	WG	pH	7.81	SU	CAPA-16-109798
R-49 S1	845	10/22/15	WG	pH	7.25	SU	CAPA-16-105583
R-49 S1	845	07/08/15	WG	pH	7.97	SU	CAPA-15-100766
R-49 S1	845	04/10/15	WG	pH	7.96	SU	CAPA-15-93454
R-49 S1	845	04/07/16	WG	Specific Conductance	161	µS/cm	CAPA-16-114723
R-49 S1	845	01/12/16	WG	Specific Conductance	155	µS/cm	CAPA-16-109798
R-49 S1	845	10/22/15	WG	Specific Conductance	158	µS/cm	CAPA-16-105583
R-49 S1	845	07/08/15	WG	Specific Conductance	153	µS/cm	CAPA-15-100766
R-49 S1	845	04/10/15	WG	Specific Conductance	154	µS/cm	CAPA-15-93454
R-49 S1	845	04/07/16	WG	Temperature	22.26	deg C	CAPA-16-114723
R-49 S1	845	01/12/16	WG	Temperature	19.63	deg C	CAPA-16-109798
R-49 S1	845	10/22/15	WG	Temperature	18.57	deg C	CAPA-16-105583
R-49 S1	845	04/10/15	WG	Temperature	22.33	deg C	CAPA-15-93454
R-49 S1	845	10/27/14	WG	Temperature	21.29	deg C	CAPA-14-87194
R-49 S1	845	04/07/16	WG	Turbidity	2.7	NTU	CAPA-16-114723
R-49 S1	845	01/12/16	WG	Turbidity	1.9	NTU	CAPA-16-109798
R-49 S1	845	10/22/15	WG	Turbidity	3.2	NTU	CAPA-16-105583
R-49 S1	845	07/08/15	WG	Turbidity	0.6	NTU	CAPA-15-100766
R-49 S1	845	04/10/15	WG	Turbidity	6.1	NTU	CAPA-15-93454
R-49 S2	905.6	04/07/16	WG	Dissolved Oxygen	6.73	mg/L	CAPA-16-114724
R-49 S2	905.6	10/22/15	WG	Dissolved Oxygen	6.71	mg/L	CAPA-16-105584
R-49 S2	905.6	04/09/15	WG	Dissolved Oxygen	6.52	mg/L	CAPA-15-93455
R-49 S2	905.6	10/24/14	WG	Dissolved Oxygen	6.61	mg/L	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Dissolved Oxygen	6.75	mg/L	CAPA-14-57744
R-49 S2	905.6	04/07/16	WG	Flow (in gpm)	2.48	gpm	CAPA-16-114724
R-49 S2	905.6	10/22/15	WG	Flow (in gpm)	2.1	gpm	CAPA-16-105584

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49 S2	905.6	04/09/15	WG	Flow (in gpm)	2.26	gpm	CAPA-15-93455
R-49 S2	905.6	10/24/14	WG	Flow (in gpm)	2.38	gpm	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Flow (in gpm)	2.4	gpm	CAPA-14-57744
R-49 S2	905.6	04/07/16	WG	Oxidation-Reduction Potential	128.6	mV	CAPA-16-114724
R-49 S2	905.6	10/22/15	WG	Oxidation-Reduction Potential	132.5	mV	CAPA-16-105584
R-49 S2	905.6	04/09/15	WG	Oxidation-Reduction Potential	98.5	mV	CAPA-15-93455
R-49 S2	905.6	10/24/14	WG	Oxidation-Reduction Potential	101.7	mV	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Oxidation-Reduction Potential	121	mV	CAPA-14-57744
R-49 S2	905.6	04/07/16	WG	pH	7.87	SU	CAPA-16-114724
R-49 S2	905.6	10/22/15	WG	pH	7.96	SU	CAPA-16-105584
R-49 S2	905.6	04/09/15	WG	pH	7.96	SU	CAPA-15-93455
R-49 S2	905.6	10/24/14	WG	pH	8.03	SU	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	pH	8.05	SU	CAPA-14-57744
R-49 S2	905.6	04/07/16	WG	Specific Conductance	150	µS/cm	CAPA-16-114724
R-49 S2	905.6	10/22/15	WG	Specific Conductance	143	µS/cm	CAPA-16-105584
R-49 S2	905.6	04/09/15	WG	Specific Conductance	143	µS/cm	CAPA-15-93455
R-49 S2	905.6	10/24/14	WG	Specific Conductance	143	µS/cm	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Specific Conductance	142	µS/cm	CAPA-14-57744
R-49 S2	905.6	04/07/16	WG	Temperature	22.46	deg C	CAPA-16-114724
R-49 S2	905.6	10/22/15	WG	Temperature	19.93	deg C	CAPA-16-105584
R-49 S2	905.6	04/09/15	WG	Temperature	21.27	deg C	CAPA-15-93455
R-49 S2	905.6	10/24/14	WG	Temperature	22.37	deg C	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Temperature	21.68	deg C	CAPA-14-57744
R-49 S2	905.6	04/07/16	WG	Turbidity	0.5	NTU	CAPA-16-114724
R-49 S2	905.6	10/22/15	WG	Turbidity	0.4	NTU	CAPA-16-105584
R-49 S2	905.6	04/09/15	WG	Turbidity	2.32	NTU	CAPA-15-93455
R-49 S2	905.6	10/24/14	WG	Turbidity	0.5	NTU	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Turbidity	0.2	NTU	CAPA-14-57744

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S1	914.96	04/05/16	WG	Dissolved Oxygen	8.18	mg/L	CAPA-16-114725
R-51 S1	914.96	01/07/16	WG	Dissolved Oxygen	8.07	mg/L	CAPA-16-109799
R-51 S1	914.96	10/22/15	WG	Dissolved Oxygen	7.58	mg/L	CAPA-16-105585
R-51 S1	914.96	07/10/15	WG	Dissolved Oxygen	7.88	mg/L	CAPA-15-100776
R-51 S1	914.96	04/23/15	WG	Dissolved Oxygen	7.63	mg/L	CAPA-15-93456
R-51 S1	914.96	04/05/16	WG	Flow (in gpm)	3.9	gpm	CAPA-16-114725
R-51 S1	914.96	01/07/16	WG	Flow (in gpm)	3.8	gpm	CAPA-16-109799
R-51 S1	914.96	10/22/15	WG	Flow (in gpm)	3.9	gpm	CAPA-16-105585
R-51 S1	914.96	07/10/15	WG	Flow (in gpm)	4	gpm	CAPA-15-100776
R-51 S1	914.96	04/23/15	WG	Flow (in gpm)	3.8	gpm	CAPA-15-93456
R-51 S1	914.96	04/05/16	WG	Oxidation-Reduction Potential	-73.5	mV	CAPA-16-114725
R-51 S1	914.96	01/07/16	WG	Oxidation-Reduction Potential	113	mV	CAPA-16-109799
R-51 S1	914.96	10/22/15	WG	Oxidation-Reduction Potential	69.1	mV	CAPA-16-105585
R-51 S1	914.96	07/10/15	WG	Oxidation-Reduction Potential	115.3	mV	CAPA-15-100776
R-51 S1	914.96	04/23/15	WG	Oxidation-Reduction Potential	108.2	mV	CAPA-15-93456
R-51 S1	914.96	04/05/16	WG	pH	8.01	SU	CAPA-16-114725
R-51 S1	914.96	01/07/16	WG	pH	7.79	SU	CAPA-16-109799
R-51 S1	914.96	10/22/15	WG	pH	7.68	SU	CAPA-16-105585
R-51 S1	914.96	07/10/15	WG	pH	7.94	SU	CAPA-15-100776
R-51 S1	914.96	04/23/15	WG	pH	7.94	SU	CAPA-15-93456
R-51 S1	914.96	04/05/16	WG	Specific Conductance	137	µS/cm	CAPA-16-114725
R-51 S1	914.96	01/07/16	WG	Specific Conductance	122	µS/cm	CAPA-16-109799
R-51 S1	914.96	10/22/15	WG	Specific Conductance	120	µS/cm	CAPA-16-105585
R-51 S1	914.96	07/10/15	WG	Specific Conductance	131	µS/cm	CAPA-15-100776
R-51 S1	914.96	04/23/15	WG	Specific Conductance	120	µS/cm	CAPA-15-93456
R-51 S1	914.96	04/05/16	WG	Temperature	20.74	deg C	CAPA-16-114725
R-51 S1	914.96	01/07/16	WG	Temperature	18.61	deg C	CAPA-16-109799
R-51 S1	914.96	10/22/15	WG	Temperature	18.86	deg C	CAPA-16-105585

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S1	914.96	07/10/15	WG	Temperature	20.98	deg C	CAPA-15-100776
R-51 S1	914.96	04/23/15	WG	Temperature	20.96	deg C	CAPA-15-93456
R-51 S1	914.96	04/05/16	WG	Turbidity	0.1	NTU	CAPA-16-114725
R-51 S1	914.96	01/07/16	WG	Turbidity	0	NTU	CAPA-16-109799
R-51 S1	914.96	10/22/15	WG	Turbidity	0.3	NTU	CAPA-16-105585
R-51 S1	914.96	07/10/15	WG	Turbidity	0.47	NTU	CAPA-15-100776
R-51 S1	914.96	04/23/15	WG	Turbidity	1.8	NTU	CAPA-15-93456
R-51 S2	1030.96	04/05/16	WG	Dissolved Oxygen	6.3	mg/L	CAPA-16-114726
R-51 S2	1030.96	10/22/15	WG	Dissolved Oxygen	6.23	mg/L	CAPA-16-105586
R-51 S2	1030.96	04/23/15	WG	Dissolved Oxygen	6.27	mg/L	CAPA-15-93457
R-51 S2	1030.96	10/22/14	WG	Dissolved Oxygen	6.28	mg/L	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Dissolved Oxygen	6.37	mg/L	CAPA-14-57746
R-51 S2	1030.96	04/05/16	WG	Flow (in gpm)	3.8	gpm	CAPA-16-114726
R-51 S2	1030.96	10/22/15	WG	Flow (in gpm)	3.8	gpm	CAPA-16-105586
R-51 S2	1030.96	04/23/15	WG	Flow (in gpm)	3.7	gpm	CAPA-15-93457
R-51 S2	1030.96	10/22/14	WG	Flow (in gpm)	3.8	gpm	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Flow (in gpm)	3.75	gpm	CAPA-14-57746
R-51 S2	1030.96	04/05/16	WG	Oxidation-Reduction Potential	-71.5	mV	CAPA-16-114726
R-51 S2	1030.96	10/22/15	WG	Oxidation-Reduction Potential	70.3	mV	CAPA-16-105586
R-51 S2	1030.96	04/23/15	WG	Oxidation-Reduction Potential	109.4	mV	CAPA-15-93457
R-51 S2	1030.96	10/22/14	WG	Oxidation-Reduction Potential	127.4	mV	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Oxidation-Reduction Potential	62.6	mV	CAPA-14-57746
R-51 S2	1030.96	04/05/16	WG	pH	8.19	SU	CAPA-16-114726
R-51 S2	1030.96	10/22/15	WG	pH	8.01	SU	CAPA-16-105586
R-51 S2	1030.96	04/23/15	WG	pH	8.15	SU	CAPA-15-93457
R-51 S2	1030.96	10/22/14	WG	pH	8.2	SU	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	pH	8.09	SU	CAPA-14-57746
R-51 S2	1030.96	04/05/16	WG	Specific Conductance	141	µS/cm	CAPA-16-114726

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S2	1030.96	10/22/15	WG	Specific Conductance	123	µS/cm	CAPA-16-105586
R-51 S2	1030.96	04/23/15	WG	Specific Conductance	122	µS/cm	CAPA-15-93457
R-51 S2	1030.96	10/22/14	WG	Specific Conductance	120	µS/cm	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Specific Conductance	121	µS/cm	CAPA-14-57746
R-51 S2	1030.96	04/05/16	WG	Temperature	21.91	deg C	CAPA-16-114726
R-51 S2	1030.96	10/22/15	WG	Temperature	20.31	deg C	CAPA-16-105586
R-51 S2	1030.96	04/23/15	WG	Temperature	22.2	deg C	CAPA-15-93457
R-51 S2	1030.96	10/22/14	WG	Temperature	21.85	deg C	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Temperature	21.91	deg C	CAPA-14-57746
R-51 S2	1030.96	04/05/16	WG	Turbidity	0.1	NTU	CAPA-16-114726
R-51 S2	1030.96	10/22/15	WG	Turbidity	0.3	NTU	CAPA-16-105586
R-51 S2	1030.96	04/23/15	WG	Turbidity	0	NTU	CAPA-15-93457
R-51 S2	1030.96	10/22/14	WG	Turbidity	0.4	NTU	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Turbidity	0.35	NTU	CAPA-14-57746
R-52 S1	1035.2	04/06/16	WG	Dissolved Oxygen	5.72	mg/L	CAPA-16-114727
R-52 S1	1035.2	01/07/16	WG	Dissolved Oxygen	7.06	mg/L	CAPA-16-109800
R-52 S1	1035.2	10/21/15	WG	Dissolved Oxygen	7.15	mg/L	CAPA-16-105587
R-52 S1	1035.2	04/09/15	WG	Dissolved Oxygen	6.98	mg/L	CAPA-15-93458
R-52 S1	1035.2	10/16/14	WG	Dissolved Oxygen	8.08	mg/L	CAPA-14-87198
R-52 S1	1035.2	04/06/16	WG	Flow (in gpm)	3.45	gpm	CAPA-16-114727
R-52 S1	1035.2	01/07/16	WG	Flow (in gpm)	3.23	gpm	CAPA-16-109800
R-52 S1	1035.2	10/21/15	WG	Flow (in gpm)	3.29	gpm	CAPA-16-105587
R-52 S1	1035.2	04/09/15	WG	Flow (in gpm)	3.3	gpm	CAPA-15-93458
R-52 S1	1035.2	10/16/14	WG	Flow (in gpm)	3.3	gpm	CAPA-14-87198
R-52 S1	1035.2	04/06/16	WG	Oxidation-Reduction Potential	-176.1	mV	CAPA-16-114727
R-52 S1	1035.2	01/07/16	WG	Oxidation-Reduction Potential	110.4	mV	CAPA-16-109800
R-52 S1	1035.2	10/21/15	WG	Oxidation-Reduction Potential	48.9	mV	CAPA-16-105587
R-52 S1	1035.2	04/09/15	WG	Oxidation-Reduction Potential	189	mV	CAPA-15-93458

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S1	1035.2	10/16/14	WG	Oxidation-Reduction Potential	161.9	mV	CAPA-14-87198
R-52 S1	1035.2	04/06/16	WG	pH	8.65	SU	CAPA-16-114727
R-52 S1	1035.2	01/07/16	WG	pH	8.14	SU	CAPA-16-109800
R-52 S1	1035.2	10/21/15	WG	pH	7.86	SU	CAPA-16-105587
R-52 S1	1035.2	04/09/15	WG	pH	8.56	SU	CAPA-15-93458
R-52 S1	1035.2	10/16/14	WG	pH	8.06	SU	CAPA-14-87198
R-52 S1	1035.2	04/06/16	WG	Specific Conductance	167	µS/cm	CAPA-16-114727
R-52 S1	1035.2	01/07/16	WG	Specific Conductance	144	µS/cm	CAPA-16-109800
R-52 S1	1035.2	10/21/15	WG	Specific Conductance	143	µS/cm	CAPA-16-105587
R-52 S1	1035.2	04/09/15	WG	Specific Conductance	150	µS/cm	CAPA-15-93458
R-52 S1	1035.2	10/16/14	WG	Specific Conductance	139	µS/cm	CAPA-14-87198
R-52 S1	1035.2	04/06/16	WG	Temperature	21.56	deg C	CAPA-16-114727
R-52 S1	1035.2	01/07/16	WG	Temperature	20.83	deg C	CAPA-16-109800
R-52 S1	1035.2	10/21/15	WG	Temperature	19.61	deg C	CAPA-16-105587
R-52 S1	1035.2	04/09/15	WG	Temperature	21.23	deg C	CAPA-15-93458
R-52 S1	1035.2	10/16/14	WG	Temperature	21.73	deg C	CAPA-14-87198
R-52 S1	1035.2	04/06/16	WG	Turbidity	0.3	NTU	CAPA-16-114727
R-52 S1	1035.2	01/07/16	WG	Turbidity	0.1	NTU	CAPA-16-109800
R-52 S1	1035.2	10/21/15	WG	Turbidity	0.38	NTU	CAPA-16-105587
R-52 S1	1035.2	04/09/15	WG	Turbidity	0.58	NTU	CAPA-15-93458
R-52 S1	1035.2	10/16/14	WG	Turbidity	0.3	NTU	CAPA-14-87198
R-52 S2	1107	04/06/16	WG	Dissolved Oxygen	6.84	mg/L	CAPA-16-114728
R-52 S2	1107	10/21/15	WG	Dissolved Oxygen	6.99	mg/L	CAPA-16-105588
R-52 S2	1107	04/09/15	WG	Dissolved Oxygen	7.03	mg/L	CAPA-15-93459
R-52 S2	1107	10/16/14	WG	Dissolved Oxygen	7.16	mg/L	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Dissolved Oxygen	7.12	mg/L	CAPA-14-57748
R-52 S2	1107	04/06/16	WG	Flow (in gpm)	3.37	gpm	CAPA-16-114728
R-52 S2	1107	10/21/15	WG	Flow (in gpm)	3.29	gpm	CAPA-16-105588

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S2	1107	04/09/15	WG	Flow (in gpm)	3.3	gpm	CAPA-15-93459
R-52 S2	1107	10/16/14	WG	Flow (in gpm)	3.2	gpm	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Flow (in gpm)	3.33	gpm	CAPA-14-57748
R-52 S2	1107	04/06/16	WG	Oxidation-Reduction Potential	-165.3	mV	CAPA-16-114728
R-52 S2	1107	10/21/15	WG	Oxidation-Reduction Potential	64.7	mV	CAPA-16-105588
R-52 S2	1107	04/09/15	WG	Oxidation-Reduction Potential	207.5	mV	CAPA-15-93459
R-52 S2	1107	10/16/14	WG	Oxidation-Reduction Potential	177.3	mV	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Oxidation-Reduction Potential	51.9	mV	CAPA-14-57748
R-52 S2	1107	04/06/16	WG	pH	7.91	SU	CAPA-16-114728
R-52 S2	1107	10/21/15	WG	pH	7.7	SU	CAPA-16-105588
R-52 S2	1107	04/09/15	WG	pH	7.95	SU	CAPA-15-93459
R-52 S2	1107	10/16/14	WG	pH	7.91	SU	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	pH	7.67	SU	CAPA-14-57748
R-52 S2	1107	04/06/16	WG	Specific Conductance	144	µS/cm	CAPA-16-114728
R-52 S2	1107	10/21/15	WG	Specific Conductance	127	µS/cm	CAPA-16-105588
R-52 S2	1107	04/09/15	WG	Specific Conductance	128	µS/cm	CAPA-15-93459
R-52 S2	1107	10/16/14	WG	Specific Conductance	120	µS/cm	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Specific Conductance	126	µS/cm	CAPA-14-57748
R-52 S2	1107	04/06/16	WG	Temperature	22.18	deg C	CAPA-16-114728
R-52 S2	1107	10/21/15	WG	Temperature	17.29	deg C	CAPA-16-105588
R-52 S2	1107	04/09/15	WG	Temperature	21.62	deg C	CAPA-15-93459
R-52 S2	1107	10/16/14	WG	Temperature	22.05	deg C	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Temperature	22.36	deg C	CAPA-14-57748
R-52 S2	1107	04/06/16	WG	Turbidity	0.33	NTU	CAPA-16-114728
R-52 S2	1107	10/21/15	WG	Turbidity	0.19	NTU	CAPA-16-105588
R-52 S2	1107	04/09/15	WG	Turbidity	0.1	NTU	CAPA-15-93459
R-52 S2	1107	10/16/14	WG	Turbidity	0.3	NTU	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Turbidity	0.2	NTU	CAPA-14-57748

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S1	849.2	04/19/16	WG	Dissolved Oxygen	6.25	mg/L	CAPA-16-114729
R-53 S1	849.2	01/08/16	WG	Dissolved Oxygen	6.29	mg/L	CAPA-16-109801
R-53 S1	849.2	11/04/15	WG	Dissolved Oxygen	6.35	mg/L	CAPA-16-105589
R-53 S1	849.2	07/09/15	WG	Dissolved Oxygen	6.18	mg/L	CAPA-15-100777
R-53 S1	849.2	04/16/15	WG	Dissolved Oxygen	6.1	mg/L	CAPA-15-93460
R-53 S1	849.2	04/19/16	WG	Flow (in gpm)	3.9	gpm	CAPA-16-114729
R-53 S1	849.2	01/08/16	WG	Flow (in gpm)	3.9	gpm	CAPA-16-109801
R-53 S1	849.2	11/04/15	WG	Flow (in gpm)	4	gpm	CAPA-16-105589
R-53 S1	849.2	07/09/15	WG	Flow (in gpm)	4.1	gpm	CAPA-15-100777
R-53 S1	849.2	04/16/15	WG	Flow (in gpm)	3.85	gpm	CAPA-15-93460
R-53 S1	849.2	04/19/16	WG	Oxidation-Reduction Potential	153.3	mV	CAPA-16-114729
R-53 S1	849.2	01/08/16	WG	Oxidation-Reduction Potential	170.4	mV	CAPA-16-109801
R-53 S1	849.2	11/04/15	WG	Oxidation-Reduction Potential	116.3	mV	CAPA-16-105589
R-53 S1	849.2	07/09/15	WG	Oxidation-Reduction Potential	124.4	mV	CAPA-15-100777
R-53 S1	849.2	04/16/15	WG	Oxidation-Reduction Potential	121	mV	CAPA-15-93460
R-53 S1	849.2	04/19/16	WG	pH	7.94	SU	CAPA-16-114729
R-53 S1	849.2	01/08/16	WG	pH	7.87	SU	CAPA-16-109801
R-53 S1	849.2	11/04/15	WG	pH	7.96	SU	CAPA-16-105589
R-53 S1	849.2	07/09/15	WG	pH	8.03	SU	CAPA-15-100777
R-53 S1	849.2	04/16/15	WG	pH	7.92	SU	CAPA-15-93460
R-53 S1	849.2	04/19/16	WG	Specific Conductance	132	µS/cm	CAPA-16-114729
R-53 S1	849.2	01/08/16	WG	Specific Conductance	130	µS/cm	CAPA-16-109801
R-53 S1	849.2	11/04/15	WG	Specific Conductance	128	µS/cm	CAPA-16-105589
R-53 S1	849.2	07/09/15	WG	Specific Conductance	138	µS/cm	CAPA-15-100777
R-53 S1	849.2	04/16/15	WG	Specific Conductance	127	µS/cm	CAPA-15-93460
R-53 S1	849.2	04/19/16	WG	Temperature	20.64	deg C	CAPA-16-114729
R-53 S1	849.2	01/08/16	WG	Temperature	20.58	deg C	CAPA-16-109801
R-53 S1	849.2	11/04/15	WG	Temperature	20.74	deg C	CAPA-16-105589

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S1	849.2	07/09/15	WG	Temperature	21.48	deg C	CAPA-15-100777
R-53 S1	849.2	04/16/15	WG	Temperature	21	deg C	CAPA-15-93460
R-53 S1	849.2	04/19/16	WG	Turbidity	0.61	NTU	CAPA-16-114729
R-53 S1	849.2	01/08/16	WG	Turbidity	0.5	NTU	CAPA-16-109801
R-53 S1	849.2	11/04/15	WG	Turbidity	0.5	NTU	CAPA-16-105589
R-53 S1	849.2	07/09/15	WG	Turbidity	0.49	NTU	CAPA-15-100777
R-53 S1	849.2	04/16/15	WG	Turbidity	0.4	NTU	CAPA-15-93460
R-53 S2	959.7	04/19/16	WG	Dissolved Oxygen	6.34	mg/L	CAPA-16-114730
R-53 S2	959.7	11/04/15	WG	Dissolved Oxygen	6.45	mg/L	CAPA-16-105590
R-53 S2	959.7	04/16/15	WG	Dissolved Oxygen	6.32	mg/L	CAPA-15-93461
R-53 S2	959.7	10/23/14	WG	Dissolved Oxygen	6.51	mg/L	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Dissolved Oxygen	6.41	mg/L	CAPA-14-57750
R-53 S2	959.7	04/19/16	WG	Flow (in gpm)	3.8	gpm	CAPA-16-114730
R-53 S2	959.7	11/04/15	WG	Flow (in gpm)	3.84	gpm	CAPA-16-105590
R-53 S2	959.7	04/16/15	WG	Flow (in gpm)	3.75	gpm	CAPA-15-93461
R-53 S2	959.7	10/23/14	WG	Flow (in gpm)	3.79	gpm	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Flow (in gpm)	3.8	gpm	CAPA-14-57750
R-53 S2	959.7	04/19/16	WG	Oxidation-Reduction Potential	197.8	mV	CAPA-16-114730
R-53 S2	959.7	11/04/15	WG	Oxidation-Reduction Potential	134.7	mV	CAPA-16-105590
R-53 S2	959.7	04/16/15	WG	Oxidation-Reduction Potential	117.3	mV	CAPA-15-93461
R-53 S2	959.7	10/23/14	WG	Oxidation-Reduction Potential	114.5	mV	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Oxidation-Reduction Potential	139	mV	CAPA-14-57750
R-53 S2	959.7	04/19/16	WG	pH	7.98	SU	CAPA-16-114730
R-53 S2	959.7	11/04/15	WG	pH	8.07	SU	CAPA-16-105590
R-53 S2	959.7	04/16/15	WG	pH	8	SU	CAPA-15-93461
R-53 S2	959.7	10/23/14	WG	pH	8.17	SU	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	pH	8.12	SU	CAPA-14-57750
R-53 S2	959.7	04/19/16	WG	Specific Conductance	129	µS/cm	CAPA-16-114730

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S2	959.7	11/04/15	WG	Specific Conductance	125	µS/cm	CAPA-16-105590
R-53 S2	959.7	04/16/15	WG	Specific Conductance	124	µS/cm	CAPA-15-93461
R-53 S2	959.7	10/23/14	WG	Specific Conductance	124	µS/cm	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Specific Conductance	125	µS/cm	CAPA-14-57750
R-53 S2	959.7	04/19/16	WG	Temperature	21.34	deg C	CAPA-16-114730
R-53 S2	959.7	11/04/15	WG	Temperature	21.23	deg C	CAPA-16-105590
R-53 S2	959.7	04/16/15	WG	Temperature	21.46	deg C	CAPA-15-93461
R-53 S2	959.7	10/23/14	WG	Temperature	21.84	deg C	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Temperature	21.3	deg C	CAPA-14-57750
R-53 S2	959.7	04/19/16	WG	Turbidity	0.51	NTU	CAPA-16-114730
R-53 S2	959.7	11/04/15	WG	Turbidity	0.3	NTU	CAPA-16-105590
R-53 S2	959.7	04/16/15	WG	Turbidity	0.4	NTU	CAPA-15-93461
R-53 S2	959.7	10/23/14	WG	Turbidity	0.23	NTU	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Turbidity	0.4	NTU	CAPA-14-57750
R-54 S1	830	04/06/16	WG	Dissolved Oxygen	0.78	mg/L	CAPA-16-114731
R-54 S1	830	10/27/15	WG	Dissolved Oxygen	1.05	mg/L	CAPA-16-105591
R-54 S1	830	04/14/15	WG	Dissolved Oxygen	0.66	mg/L	CAPA-15-93462
R-54 S1	830	10/22/14	WG	Dissolved Oxygen	1.09	mg/L	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Dissolved Oxygen	1.02	mg/L	CAPA-14-57751
R-54 S1	830	04/06/16	WG	Flow (in gpm)	3.12	gpm	CAPA-16-114731
R-54 S1	830	10/27/15	WG	Flow (in gpm)	3	gpm	CAPA-16-105591
R-54 S1	830	04/14/15	WG	Flow (in gpm)	3	gpm	CAPA-15-93462
R-54 S1	830	10/22/14	WG	Flow (in gpm)	3	gpm	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Flow (in gpm)	3	gpm	CAPA-14-57751
R-54 S1	830	04/06/16	WG	Oxidation-Reduction Potential	-189.5	mV	CAPA-16-114731
R-54 S1	830	10/27/15	WG	Oxidation-Reduction Potential	-77.1	mV	CAPA-16-105591
R-54 S1	830	04/14/15	WG	Oxidation-Reduction Potential	-73	mV	CAPA-15-93462
R-54 S1	830	10/22/14	WG	Oxidation-Reduction Potential	-43.3	mV	CAPA-14-87202

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S1	830	04/15/14	WG	Oxidation-Reduction Potential	-65	mV	CAPA-14-57751
R-54 S1	830	04/06/16	WG	pH	6.74	SU	CAPA-16-114731
R-54 S1	830	10/27/15	WG	pH	6.77	SU	CAPA-16-105591
R-54 S1	830	04/14/15	WG	pH	6.73	SU	CAPA-15-93462
R-54 S1	830	10/22/14	WG	pH	6.48	SU	CAPA-14-87202
R-54 S1	830	04/15/14	WG	pH	6.77	SU	CAPA-14-57751
R-54 S1	830	04/06/16	WG	Specific Conductance	152	µS/cm	CAPA-16-114731
R-54 S1	830	10/27/15	WG	Specific Conductance	148	µS/cm	CAPA-16-105591
R-54 S1	830	04/14/15	WG	Specific Conductance	154	µS/cm	CAPA-15-93462
R-54 S1	830	10/22/14	WG	Specific Conductance	156	µS/cm	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Specific Conductance	162	µS/cm	CAPA-14-57751
R-54 S1	830	04/06/16	WG	Temperature	20.9	deg C	CAPA-16-114731
R-54 S1	830	10/27/15	WG	Temperature	20.89	deg C	CAPA-16-105591
R-54 S1	830	04/14/15	WG	Temperature	21.07	deg C	CAPA-15-93462
R-54 S1	830	10/22/14	WG	Temperature	20.07	deg C	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Temperature	21.16	deg C	CAPA-14-57751
R-54 S1	830	04/06/16	WG	Turbidity	1.6	NTU	CAPA-16-114731
R-54 S1	830	10/27/15	WG	Turbidity	0.68	NTU	CAPA-16-105591
R-54 S1	830	04/14/15	WG	Turbidity	1.05	NTU	CAPA-15-93462
R-54 S1	830	10/22/14	WG	Turbidity	0.74	NTU	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Turbidity	0.8	NTU	CAPA-14-57751
R-54 S2	915	04/06/16	WG	Dissolved Oxygen	6.17	mg/L	CAPA-16-114732
R-54 S2	915	10/27/15	WG	Dissolved Oxygen	6.11	mg/L	CAPA-16-105592
R-54 S2	915	04/14/15	WG	Dissolved Oxygen	6.14	mg/L	CAPA-15-93463
R-54 S2	915	10/22/14	WG	Dissolved Oxygen	6.33	mg/L	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Dissolved Oxygen	6.14	mg/L	CAPA-14-57752
R-54 S2	915	04/06/16	WG	Flow (in gpm)	3.12	gpm	CAPA-16-114732
R-54 S2	915	10/27/15	WG	Flow (in gpm)	3	gpm	CAPA-16-105592

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S2	915	04/14/15	WG	Flow (in gpm)	3	gpm	CAPA-15-93463
R-54 S2	915	10/22/14	WG	Flow (in gpm)	3	gpm	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Flow (in gpm)	3.06	gpm	CAPA-14-57752
R-54 S2	915	04/06/16	WG	Oxidation-Reduction Potential	-108.1	mV	CAPA-16-114732
R-54 S2	915	10/27/15	WG	Oxidation-Reduction Potential	60.9	mV	CAPA-16-105592
R-54 S2	915	04/14/15	WG	Oxidation-Reduction Potential	-88.9	mV	CAPA-15-93463
R-54 S2	915	10/22/14	WG	Oxidation-Reduction Potential	78.4	mV	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Oxidation-Reduction Potential	193.4	mV	CAPA-14-57752
R-54 S2	915	04/06/16	WG	pH	8.04	SU	CAPA-16-114732
R-54 S2	915	10/27/15	WG	pH	7.99	SU	CAPA-16-105592
R-54 S2	915	04/14/15	WG	pH	8.09	SU	CAPA-15-93463
R-54 S2	915	10/22/14	WG	pH	7.91	SU	CAPA-14-87203
R-54 S2	915	04/15/14	WG	pH	8.23	SU	CAPA-14-57752
R-54 S2	915	04/06/16	WG	Specific Conductance	133	µS/cm	CAPA-16-114732
R-54 S2	915	10/27/15	WG	Specific Conductance	127	µS/cm	CAPA-16-105592
R-54 S2	915	04/14/15	WG	Specific Conductance	127	µS/cm	CAPA-15-93463
R-54 S2	915	10/22/14	WG	Specific Conductance	128	µS/cm	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Specific Conductance	133	µS/cm	CAPA-14-57752
R-54 S2	915	04/06/16	WG	Temperature	21.46	deg C	CAPA-16-114732
R-54 S2	915	10/27/15	WG	Temperature	21.58	deg C	CAPA-16-105592
R-54 S2	915	04/14/15	WG	Temperature	21.97	deg C	CAPA-15-93463
R-54 S2	915	10/22/14	WG	Temperature	21.47	deg C	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Temperature	20.93	deg C	CAPA-14-57752
R-54 S2	915	04/06/16	WG	Turbidity	0.7	NTU	CAPA-16-114732
R-54 S2	915	10/27/15	WG	Turbidity	0.38	NTU	CAPA-16-105592
R-54 S2	915	04/14/15	WG	Turbidity	0.3	NTU	CAPA-15-93463
R-54 S2	915	10/22/14	WG	Turbidity	0.41	NTU	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Turbidity	0.2	NTU	CAPA-14-57752

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S1	860	04/07/16	WG	Dissolved Oxygen	6.15	mg/L	CAMO-16-114796
R-55 S1	860	01/05/16	WG	Dissolved Oxygen	6.25	mg/L	CAMO-16-109709
R-55 S1	860	10/20/15	WG	Dissolved Oxygen	6.31	mg/L	CAMO-16-105767
R-55 S1	860	07/09/15	WG	Dissolved Oxygen	6.27	mg/L	CAMO-15-100753
R-55 S1	860	04/20/15	WG	Dissolved Oxygen	6.46	mg/L	CAMO-15-94138
R-55 S1	860	04/07/16	WG	Flow (in gpm)	2.91	gpm	CAMO-16-114796
R-55 S1	860	01/05/16	WG	Flow (in gpm)	2.97	gpm	CAMO-16-109709
R-55 S1	860	10/20/15	WG	Flow (in gpm)	2.88	gpm	CAMO-16-105767
R-55 S1	860	07/09/15	WG	Flow (in gpm)	2.8	gpm	CAMO-15-100753
R-55 S1	860	04/20/15	WG	Flow (in gpm)	2.86	gpm	CAMO-15-94138
R-55 S1	860	04/07/16	WG	Oxidation-Reduction Potential	-129.4	mV	CAMO-16-114796
R-55 S1	860	01/05/16	WG	Oxidation-Reduction Potential	100.4	mV	CAMO-16-109709
R-55 S1	860	10/20/15	WG	Oxidation-Reduction Potential	107.3	mV	CAMO-16-105767
R-55 S1	860	07/09/15	WG	Oxidation-Reduction Potential	128.2	mV	CAMO-15-100753
R-55 S1	860	04/20/15	WG	Oxidation-Reduction Potential	51.9	mV	CAMO-15-94138
R-55 S1	860	04/07/16	WG	pH	8.25	SU	CAMO-16-114796
R-55 S1	860	01/05/16	WG	pH	8.14	SU	CAMO-16-109709
R-55 S1	860	10/20/15	WG	pH	8.19	SU	CAMO-16-105767
R-55 S1	860	07/09/15	WG	pH	8.14	SU	CAMO-15-100753
R-55 S1	860	04/20/15	WG	pH	8.13	SU	CAMO-15-94138
R-55 S1	860	04/07/16	WG	Specific Conductance	196	µS/cm	CAMO-16-114796
R-55 S1	860	01/05/16	WG	Specific Conductance	175	µS/cm	CAMO-16-109709
R-55 S1	860	10/20/15	WG	Specific Conductance	179	µS/cm	CAMO-16-105767
R-55 S1	860	07/09/15	WG	Specific Conductance	176	µS/cm	CAMO-15-100753
R-55 S1	860	04/20/15	WG	Specific Conductance	176	µS/cm	CAMO-15-94138
R-55 S1	860	04/07/16	WG	Temperature	22.59	deg C	CAMO-16-114796
R-55 S1	860	01/05/16	WG	Temperature	20.44	deg C	CAMO-16-109709
R-55 S1	860	10/20/15	WG	Temperature	22.3	deg C	CAMO-16-105767

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S1	860	07/09/15	WG	Temperature	22.42	deg C	CAMO-15-100753
R-55 S1	860	04/20/15	WG	Temperature	22.57	deg C	CAMO-15-94138
R-55 S1	860	04/07/16	WG	Turbidity	0.31	NTU	CAMO-16-114796
R-55 S1	860	01/05/16	WG	Turbidity	0.38	NTU	CAMO-16-109709
R-55 S1	860	10/20/15	WG	Turbidity	0.1	NTU	CAMO-16-105767
R-55 S1	860	07/09/15	WG	Turbidity	0.4	NTU	CAMO-15-100753
R-55 S1	860	04/20/15	WG	Turbidity	0.66	NTU	CAMO-15-94138
R-55 S2	994.4	04/07/16	WG	Dissolved Oxygen	5.65	mg/L	CAMO-16-114797
R-55 S2	994.4	10/20/15	WG	Dissolved Oxygen	5.7	mg/L	CAMO-16-105768
R-55 S2	994.4	04/20/15	WG	Dissolved Oxygen	5.72	mg/L	CAMO-15-94139
R-55 S2	994.4	10/15/14	WG	Dissolved Oxygen	5.64	mg/L	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Dissolved Oxygen	5.72	mg/L	CAMO-14-57545
R-55 S2	994.4	04/07/16	WG	Flow (in gpm)	2.83	gpm	CAMO-16-114797
R-55 S2	994.4	10/20/15	WG	Flow (in gpm)	2.73	gpm	CAMO-16-105768
R-55 S2	994.4	04/20/15	WG	Flow (in gpm)	2.8	gpm	CAMO-15-94139
R-55 S2	994.4	10/15/14	WG	Flow (in gpm)	2.65	gpm	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Flow (in gpm)	2.67	gpm	CAMO-14-57545
R-55 S2	994.4	04/07/16	WG	Oxidation-Reduction Potential	-127.1	mV	CAMO-16-114797
R-55 S2	994.4	10/20/15	WG	Oxidation-Reduction Potential	115.7	mV	CAMO-16-105768
R-55 S2	994.4	04/20/15	WG	Oxidation-Reduction Potential	95.3	mV	CAMO-15-94139
R-55 S2	994.4	10/15/14	WG	Oxidation-Reduction Potential	199.7	mV	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Oxidation-Reduction Potential	55.2	mV	CAMO-14-57545
R-55 S2	994.4	04/07/16	WG	pH	8.44	SU	CAMO-16-114797
R-55 S2	994.4	10/20/15	WG	pH	8.42	SU	CAMO-16-105768
R-55 S2	994.4	04/20/15	WG	pH	8.41	SU	CAMO-15-94139
R-55 S2	994.4	10/15/14	WG	pH	8.47	SU	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	pH	8.39	SU	CAMO-14-57545
R-55 S2	994.4	04/07/16	WG	Specific Conductance	196	µS/cm	CAMO-16-114797

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S2	994.4	10/20/15	WG	Specific Conductance	177	µS/cm	CAMO-16-105768
R-55 S2	994.4	04/20/15	WG	Specific Conductance	176	µS/cm	CAMO-15-94139
R-55 S2	994.4	10/15/14	WG	Specific Conductance	177	µS/cm	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Specific Conductance	178	µS/cm	CAMO-14-57545
R-55 S2	994.4	04/07/16	WG	Temperature	22.54	deg C	CAMO-16-114797
R-55 S2	994.4	10/20/15	WG	Temperature	21.66	deg C	CAMO-16-105768
R-55 S2	994.4	04/20/15	WG	Temperature	22.32	deg C	CAMO-15-94139
R-55 S2	994.4	10/15/14	WG	Temperature	22.74	deg C	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Temperature	22.34	deg C	CAMO-14-57545
R-55 S2	994.4	04/07/16	WG	Turbidity	0.32	NTU	CAMO-16-114797
R-55 S2	994.4	10/20/15	WG	Turbidity	0.1	NTU	CAMO-16-105768
R-55 S2	994.4	04/20/15	WG	Turbidity	0.53	NTU	CAMO-15-94139
R-55 S2	994.4	10/15/14	WG	Turbidity	0.2	NTU	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Turbidity	0.28	NTU	CAMO-14-57545
R-55i	510	04/08/16	WG	Dissolved Oxygen	3.8	mg/L	CAMO-16-114798
R-55i	510	10/23/15	WG	Dissolved Oxygen	3.71	mg/L	CAMO-16-105769
R-55i	510	04/07/15	WG	Dissolved Oxygen	3.73	mg/L	CAMO-15-94140
R-55i	510	10/17/14	WG	Dissolved Oxygen	3.46	mg/L	CAMO-14-87140
R-55i	510	04/16/14	WG	Dissolved Oxygen	3.46	mg/L	CAMO-14-57546
R-55i	510	04/08/16	WG	Flow (in gpm)	2.44	gpm	CAMO-16-114798
R-55i	510	10/23/15	WG	Flow (in gpm)	2.21	gpm	CAMO-16-105769
R-55i	510	04/07/15	WG	Flow (in gpm)	2.46	gpm	CAMO-15-94140
R-55i	510	10/17/14	WG	Flow (in gpm)	2.5	gpm	CAMO-14-87140
R-55i	510	04/16/14	WG	Flow (in gpm)	2.2	gpm	CAMO-14-57546
R-55i	510	04/08/16	WG	Oxidation-Reduction Potential	-175.3	mV	CAMO-16-114798
R-55i	510	10/23/15	WG	Oxidation-Reduction Potential	-20.3	mV	CAMO-16-105769
R-55i	510	04/07/15	WG	Oxidation-Reduction Potential	1	mV	CAMO-15-94140
R-55i	510	10/17/14	WG	Oxidation-Reduction Potential	-20.9	mV	CAMO-14-87140

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55i	510	04/16/14	WG	Oxidation-Reduction Potential	-25.6	mV	CAMO-14-57546
R-55i	510	04/08/16	WG	pH	7.48	SU	CAMO-16-114798
R-55i	510	10/23/15	WG	pH	7.33	SU	CAMO-16-105769
R-55i	510	04/07/15	WG	pH	7.33	SU	CAMO-15-94140
R-55i	510	10/17/14	WG	pH	7.39	SU	CAMO-14-87140
R-55i	510	04/16/14	WG	pH	7.33	SU	CAMO-14-57546
R-55i	510	04/08/16	WG	Specific Conductance	329	µS/cm	CAMO-16-114798
R-55i	510	10/23/15	WG	Specific Conductance	311	µS/cm	CAMO-16-105769
R-55i	510	04/07/15	WG	Specific Conductance	312	µS/cm	CAMO-15-94140
R-55i	510	10/17/14	WG	Specific Conductance	314	µS/cm	CAMO-14-87140
R-55i	510	04/16/14	WG	Specific Conductance	317	µS/cm	CAMO-14-57546
R-55i	510	04/08/16	WG	Temperature	17.35	deg C	CAMO-16-114798
R-55i	510	10/23/15	WG	Temperature	17.33	deg C	CAMO-16-105769
R-55i	510	04/07/15	WG	Temperature	18.37	deg C	CAMO-15-94140
R-55i	510	10/17/14	WG	Temperature	18.19	deg C	CAMO-14-87140
R-55i	510	04/16/14	WG	Temperature	18.42	deg C	CAMO-14-57546
R-55i	510	04/08/16	WG	Turbidity	0.2	NTU	CAMO-16-114798
R-55i	510	10/23/15	WG	Turbidity	0.5	NTU	CAMO-16-105769
R-55i	510	04/07/15	WG	Turbidity	0.1	NTU	CAMO-15-94140
R-55i	510	10/17/14	WG	Turbidity	0.9	NTU	CAMO-14-87140
R-55i	510	04/16/14	WG	Turbidity	0.7	NTU	CAMO-14-57546
R-56 S1	945	04/14/16	WG	Dissolved Oxygen	6.36	mg/L	CAPA-16-114733
R-56 S1	945	01/13/16	WG	Dissolved Oxygen	6.73	mg/L	CAPA-16-109802
R-56 S1	945	11/03/15	WG	Dissolved Oxygen	6.09	mg/L	CAPA-16-105593
R-56 S1	945	07/14/15	WG	Dissolved Oxygen	6.72	mg/L	CAPA-15-100778
R-56 S1	945	04/22/15	WG	Dissolved Oxygen	6.46	mg/L	CAPA-15-93464
R-56 S1	945	04/14/16	WG	Flow (in gpm)	4.17	gpm	CAPA-16-114733
R-56 S1	945	01/13/16	WG	Flow (in gpm)	4.22	gpm	CAPA-16-109802

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S1	945	11/03/15	WG	Flow (in gpm)	4.12	gpm	CAPA-16-105593
R-56 S1	945	07/14/15	WG	Flow (in gpm)	4.3	gpm	CAPA-15-100778
R-56 S1	945	04/22/15	WG	Flow (in gpm)	4	gpm	CAPA-15-93464
R-56 S1	945	04/14/16	WG	Oxidation-Reduction Potential	-115.3	mV	CAPA-16-114733
R-56 S1	945	01/13/16	WG	Oxidation-Reduction Potential	149.5	mV	CAPA-16-109802
R-56 S1	945	11/03/15	WG	Oxidation-Reduction Potential	128.2	mV	CAPA-16-105593
R-56 S1	945	07/14/15	WG	Oxidation-Reduction Potential	114.1	mV	CAPA-15-100778
R-56 S1	945	04/22/15	WG	Oxidation-Reduction Potential	170.6	mV	CAPA-15-93464
R-56 S1	945	04/14/16	WG	pH	8.04	SU	CAPA-16-114733
R-56 S1	945	01/13/16	WG	pH	7.91	SU	CAPA-16-109802
R-56 S1	945	11/03/15	WG	pH	7.98	SU	CAPA-16-105593
R-56 S1	945	07/14/15	WG	pH	7.97	SU	CAPA-15-100778
R-56 S1	945	04/22/15	WG	pH	7.96	SU	CAPA-15-93464
R-56 S1	945	04/14/16	WG	Specific Conductance	171	µS/cm	CAPA-16-114733
R-56 S1	945	01/13/16	WG	Specific Conductance	150	µS/cm	CAPA-16-109802
R-56 S1	945	11/03/15	WG	Specific Conductance	150	µS/cm	CAPA-16-105593
R-56 S1	945	07/14/15	WG	Specific Conductance	150	µS/cm	CAPA-15-100778
R-56 S1	945	04/22/15	WG	Specific Conductance	145	µS/cm	CAPA-15-93464
R-56 S1	945	04/14/16	WG	Temperature	19.86	deg C	CAPA-16-114733
R-56 S1	945	01/13/16	WG	Temperature	20.25	deg C	CAPA-16-109802
R-56 S1	945	11/03/15	WG	Temperature	21	deg C	CAPA-16-105593
R-56 S1	945	07/14/15	WG	Temperature	21.44	deg C	CAPA-15-100778
R-56 S1	945	04/22/15	WG	Temperature	21.09	deg C	CAPA-15-93464
R-56 S1	945	04/14/16	WG	Turbidity	0.36	NTU	CAPA-16-114733
R-56 S1	945	01/13/16	WG	Turbidity	0.39	NTU	CAPA-16-109802
R-56 S1	945	11/03/15	WG	Turbidity	0.34	NTU	CAPA-16-105593
R-56 S1	945	07/14/15	WG	Turbidity	0.7	NTU	CAPA-15-100778
R-56 S1	945	04/22/15	WG	Turbidity	0.82	NTU	CAPA-15-93464

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S2	1046.6	04/14/16	WG	Dissolved Oxygen	5.75	mg/L	CAPA-16-114734
R-56 S2	1046.6	11/03/15	WG	Dissolved Oxygen	5.62	mg/L	CAPA-16-105594
R-56 S2	1046.6	10/30/14	WG	Dissolved Oxygen	5.84	mg/L	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Dissolved Oxygen	5.81	mg/L	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Dissolved Oxygen	5.47	mg/L	CAPA-14-49399
R-56 S2	1046.6	04/14/16	WG	Flow (in gpm)	4.17	gpm	CAPA-16-114734
R-56 S2	1046.6	11/03/15	WG	Flow (in gpm)	4.23	gpm	CAPA-16-105594
R-56 S2	1046.6	10/30/14	WG	Flow (in gpm)	4.1	gpm	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Flow (in gpm)	4.16	gpm	CAPA-14-57754
R-56 S2	1046.6	11/02/11	WG	Flow (in gpm)	4	gpm	CAPA-12-1213
R-56 S2	1046.6	04/14/16	WG	Oxidation-Reduction Potential	-122.9	mV	CAPA-16-114734
R-56 S2	1046.6	11/03/15	WG	Oxidation-Reduction Potential	131.1	mV	CAPA-16-105594
R-56 S2	1046.6	10/30/14	WG	Oxidation-Reduction Potential	92.9	mV	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Oxidation-Reduction Potential	158	mV	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Oxidation-Reduction Potential	154.1	mV	CAPA-14-49399
R-56 S2	1046.6	04/14/16	WG	pH	8.29	SU	CAPA-16-114734
R-56 S2	1046.6	11/03/15	WG	pH	8.21	SU	CAPA-16-105594
R-56 S2	1046.6	10/30/14	WG	pH	8.33	SU	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	pH	8.34	SU	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	pH	8.26	SU	CAPA-14-49399
R-56 S2	1046.6	04/14/16	WG	Specific Conductance	154	µS/cm	CAPA-16-114734
R-56 S2	1046.6	11/03/15	WG	Specific Conductance	138	µS/cm	CAPA-16-105594
R-56 S2	1046.6	10/30/14	WG	Specific Conductance	131	µS/cm	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Specific Conductance	130	µS/cm	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Specific Conductance	132	µS/cm	CAPA-14-49399
R-56 S2	1046.6	04/14/16	WG	Temperature	21.43	deg C	CAPA-16-114734
R-56 S2	1046.6	11/03/15	WG	Temperature	21.41	deg C	CAPA-16-105594
R-56 S2	1046.6	10/30/14	WG	Temperature	21.73	deg C	CAPA-14-87205

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S2	1046.6	04/18/14	WG	Temperature	21.58	deg C	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Temperature	20.68	deg C	CAPA-14-49399
R-56 S2	1046.6	04/14/16	WG	Turbidity	0.51	NTU	CAPA-16-114734
R-56 S2	1046.6	11/03/15	WG	Turbidity	0.37	NTU	CAPA-16-105594
R-56 S2	1046.6	10/30/14	WG	Turbidity	0.28	NTU	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Turbidity	0	NTU	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Turbidity	0.8	NTU	CAPA-14-49399
R-57 S1	910	04/19/16	WG	Dissolved Oxygen	5.55	mg/L	CAPA-16-114735
R-57 S1	910	01/05/16	WG	Dissolved Oxygen	5.54	mg/L	CAPA-16-109803
R-57 S1	910	10/30/15	WG	Dissolved Oxygen	5.96	mg/L	CAPA-16-105595
R-57 S1	910	07/08/15	WG	Dissolved Oxygen	5.96	mg/L	CAPA-15-100779
R-57 S1	910	04/15/15	WG	Dissolved Oxygen	5.29	mg/L	CAPA-15-93466
R-57 S1	910	04/19/16	WG	Flow (in gpm)	3.7	gpm	CAPA-16-114735
R-57 S1	910	01/05/16	WG	Flow (in gpm)	3.53	gpm	CAPA-16-109803
R-57 S1	910	10/30/15	WG	Flow (in gpm)	3.53	gpm	CAPA-16-105595
R-57 S1	910	07/08/15	WG	Flow (in gpm)	3.61	gpm	CAPA-15-100779
R-57 S1	910	04/15/15	WG	Flow (in gpm)	3.6	gpm	CAPA-15-93466
R-57 S1	910	04/19/16	WG	Oxidation-Reduction Potential	-91.5	mV	CAPA-16-114735
R-57 S1	910	01/05/16	WG	Oxidation-Reduction Potential	128.2	mV	CAPA-16-109803
R-57 S1	910	10/30/15	WG	Oxidation-Reduction Potential	63.8	mV	CAPA-16-105595
R-57 S1	910	07/08/15	WG	Oxidation-Reduction Potential	121.9	mV	CAPA-15-100779
R-57 S1	910	04/15/15	WG	Oxidation-Reduction Potential	87.4	mV	CAPA-15-93466
R-57 S1	910	04/19/16	WG	pH	7.94	SU	CAPA-16-114735
R-57 S1	910	01/05/16	WG	pH	7.76	SU	CAPA-16-109803
R-57 S1	910	10/30/15	WG	pH	7.79	SU	CAPA-16-105595
R-57 S1	910	07/08/15	WG	pH	7.89	SU	CAPA-15-100779
R-57 S1	910	04/15/15	WG	pH	7.79	SU	CAPA-15-93466
R-57 S1	910	04/19/16	WG	Specific Conductance	160	µS/cm	CAPA-16-114735

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S1	910	01/05/16	WG	Specific Conductance	144	µS/cm	CAPA-16-109803
R-57 S1	910	10/30/15	WG	Specific Conductance	142	µS/cm	CAPA-16-105595
R-57 S1	910	07/08/15	WG	Specific Conductance	151	µS/cm	CAPA-15-100779
R-57 S1	910	04/15/15	WG	Specific Conductance	141	µS/cm	CAPA-15-93466
R-57 S1	910	04/19/16	WG	Temperature	22.24	deg C	CAPA-16-114735
R-57 S1	910	01/05/16	WG	Temperature	21.92	deg C	CAPA-16-109803
R-57 S1	910	10/30/15	WG	Temperature	21.86	deg C	CAPA-16-105595
R-57 S1	910	07/08/15	WG	Temperature	22.72	deg C	CAPA-15-100779
R-57 S1	910	04/15/15	WG	Temperature	22.56	deg C	CAPA-15-93466
R-57 S1	910	04/19/16	WG	Turbidity	0.4	NTU	CAPA-16-114735
R-57 S1	910	01/05/16	WG	Turbidity	0.48	NTU	CAPA-16-109803
R-57 S1	910	10/30/15	WG	Turbidity	0.4	NTU	CAPA-16-105595
R-57 S1	910	07/08/15	WG	Turbidity	0.36	NTU	CAPA-15-100779
R-57 S1	910	04/15/15	WG	Turbidity	0.1	NTU	CAPA-15-93466
R-57 S2	971.5	04/19/16	WG	Dissolved Oxygen	6.02	mg/L	CAPA-16-114736
R-57 S2	971.5	10/30/15	WG	Dissolved Oxygen	5.84	mg/L	CAPA-16-105596
R-57 S2	971.5	04/15/15	WG	Dissolved Oxygen	5.58	mg/L	CAPA-15-93467
R-57 S2	971.5	10/16/14	WG	Dissolved Oxygen	5.24	mg/L	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Dissolved Oxygen	5.85	mg/L	CAPA-14-57756
R-57 S2	971.5	04/19/16	WG	Flow (in gpm)	3.61	gpm	CAPA-16-114736
R-57 S2	971.5	10/30/15	WG	Flow (in gpm)	3.49	gpm	CAPA-16-105596
R-57 S2	971.5	04/15/15	WG	Flow (in gpm)	3.6	gpm	CAPA-15-93467
R-57 S2	971.5	10/16/14	WG	Flow (in gpm)	3.57	gpm	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Flow (in gpm)	3.66	gpm	CAPA-14-57756
R-57 S2	971.5	04/19/16	WG	Oxidation-Reduction Potential	-89.1	mV	CAPA-16-114736
R-57 S2	971.5	10/30/15	WG	Oxidation-Reduction Potential	70	mV	CAPA-16-105596
R-57 S2	971.5	04/15/15	WG	Oxidation-Reduction Potential	73.3	mV	CAPA-15-93467
R-57 S2	971.5	10/16/14	WG	Oxidation-Reduction Potential	-4.4	mV	CAPA-14-87207

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S2	971.5	04/03/14	WG	Oxidation-Reduction Potential	105.9	mV	CAPA-14-57756
R-57 S2	971.5	04/19/16	WG	pH	7.97	SU	CAPA-16-114736
R-57 S2	971.5	10/30/15	WG	pH	7.8	SU	CAPA-16-105596
R-57 S2	971.5	04/15/15	WG	pH	7.83	SU	CAPA-15-93467
R-57 S2	971.5	10/16/14	WG	pH	7.66	SU	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	pH	7.81	SU	CAPA-14-57756
R-57 S2	971.5	04/19/16	WG	Specific Conductance	156	µS/cm	CAPA-16-114736
R-57 S2	971.5	10/30/15	WG	Specific Conductance	142	µS/cm	CAPA-16-105596
R-57 S2	971.5	04/15/15	WG	Specific Conductance	137	µS/cm	CAPA-15-93467
R-57 S2	971.5	10/16/14	WG	Specific Conductance	137	µS/cm	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Specific Conductance	138	µS/cm	CAPA-14-57756
R-57 S2	971.5	04/19/16	WG	Temperature	22.67	deg C	CAPA-16-114736
R-57 S2	971.5	10/30/15	WG	Temperature	22.03	deg C	CAPA-16-105596
R-57 S2	971.5	04/15/15	WG	Temperature	23.05	deg C	CAPA-15-93467
R-57 S2	971.5	10/16/14	WG	Temperature	23.22	deg C	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Temperature	21.13	deg C	CAPA-14-57756
R-57 S2	971.5	04/19/16	WG	Turbidity	0.4	NTU	CAPA-16-114736
R-57 S2	971.5	10/30/15	WG	Turbidity	0.3	NTU	CAPA-16-105596
R-57 S2	971.5	04/15/15	WG	Turbidity	0.8	NTU	CAPA-15-93467
R-57 S2	971.5	10/16/14	WG	Turbidity	0.45	NTU	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Turbidity	0.5	NTU	CAPA-14-57756

[a] WG = Groundwater.

[b] gpm = Gallons per minute.

[c] SU = Standard unit.

[d] NTU = Nephelometric turbidity unit.

Appendix B

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

Appendix C

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

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

Acronyms and Abbreviations

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

Acronym, Abbreviation, or Symbol	Description
Lab Codes (continued)	
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 TA-54 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-21	888.8	01/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.661	0.645	2.142	—	pCi/L	Y	U	U	2016-623	CAMO-16-109705	ARSL
R-21	888.8	10/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.58	0.744	2.553	—	pCi/L	Y	U	U	2016-107	CAMO-16-105763	ARSL
R-21	888.8	07/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.523	0.75	2.324	—	pCi/L	Y	U	U	2015-1610	CAMO-15-100749	ARSL
R-21	888.8	04/06/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.809	0.732	2.4	—	pCi/L	Y	U	U	2015-1004	CAMO-15-94134	ARSL
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.428	0.824	2.832	—	pCi/L	Y	U	U	2015-184	CAMO-14-87134	ARSL
R-23	816	01/11/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.471	0.703	2.373	—	pCi/L	Y	U	U	2016-624	CAPA-16-109794	ARSL
R-23	816	10/29/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0	0.672	2.284	—	pCi/L	Y	U	U	2016-265	CAPA-16-105573	ARSL
R-23	816	07/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.085	0.642	2.181	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100771	ARSL
R-23	816	04/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.023	0.674	2.161	—	pCi/L	Y	U	U	2015-1006	CAPA-15-93444	ARSL
R-23	816	01/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.872	0.698	2.042	—	pCi/L	Y	U	U	2015-666	CAPA-15-91441	ARSL
R-32 S1	867.5	01/08/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.715	0.603	2.068	—	pCi/L	Y	U	U	2016-624	CAPA-16-109795	ARSL
R-32 S1	867.5	11/02/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.145	0.717	2.426	—	pCi/L	Y	U	U	2016-265	CAPA-16-105577	ARSL
R-32 S1	867.5	07/13/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.694	0.683	2.349	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100772	ARSL
R-32 S1	867.5	04/17/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.045	0.78	2.294	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93448	ARSL
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.511	0.723	2.479	—	pCi/L	Y	U	U	2015-135	CAPA-14-87188	ARSL
R-37 S1	929.3	01/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	28.148	4.316	1.658	—	pCi/L	Y	—	J-	2016-623	CAMO-16-109706	ARSL
R-37 S1	929.3	01/13/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	31.636	4.863	2.028	—	pCi/L	Y	—	J-	2016-623	CAMO-16-109699	ARSL
R-37 S1	929.3	10/21/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	31.721	4.907	2.448	—	pCi/L	Y	—	NQ	2016-108	CAMO-16-105764	ARSL
R-37 S1	929.3	07/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	30.751	4.755	2.282	—	pCi/L	Y	—	J-	2015-1703	CAMO-15-100750	ARSL
R-37 S1	929.3	07/14/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	33.589	5.168	2.174	—	pCi/L	Y	—	J-	2015-1703	CAMO-15-100743	ARSL
R-37 S1	929.3	04/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	32.055	4.939	2.109	—	pCi/L	Y	—	J-	2015-1048	CAMO-15-94135	ARSL
R-37 S1	929.3	01/13/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	30.411	4.704	2.235	—	pCi/L	Y	—	NQ	2015-667	CAMO-15-91417	ARSL
R-37 S2	1026	01/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.018	0.635	2.168	—	pCi/L	Y	U	U	2016-623	CAMO-16-109707	ARSL
R-37 S2	1026	10/28/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.007	0.66	2.248	—	pCi/L	Y	U	U	2016-209	CAMO-16-105765	ARSL
R-37 S2	1026	07/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.429	0.634	1.929	—	pCi/L	Y	U	U	2015-1610	CAMO-15-100751	ARSL
R-37 S2	1026	04/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.708	0.722	2.382	—	pCi/L	Y	U	U	2015-1048	CAMO-15-94136	ARSL
R-37 S2	1026	01/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.213	0.717	2.007	—	pCi/L	Y	—	NQ	2015-667	CAMO-15-91418	ARSL
R-37 S2	1026	01/07/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.964	0.64	2.053	—	pCi/L	Y	U	U	2015-667	CAMO-15-91409	ARSL
R-38	821.2	01/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.572	0.567	1.945	—	pCi/L	Y	U	U	2016-623	CAMO-16-109708	ARSL
R-38	821.2	10/19/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	6.705	1.313	2.448	—	pCi/L	Y	—	NQ	2016-107	CAMO-16-105755	ARSL
R-38	821.2	10/19/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.261	0.738	2.486	—	pCi/L	Y	U	U	2016-107	CAMO-16-105766	ARSL
R-38	821.2	07/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.275	0.694	2.34	—	pCi/L	Y	U	U	2015-1703	CAMO-15-100752	ARSL
R-38	821.2	04/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4	0.726	2.438	—	pCi/L	Y	U	U	2015-1004	CAMO-15-94137	ARSL
R-38	821.2	04/07/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.142	0.645	2.187	—	pCi/L	Y	U	U	2015-1004	CAMO-15-94127	ARSL
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.528	0.832	2.86	—	pCi/L	Y	U	U	2015-184	CAMO-14-87137	ARSL
R-39	859	01/11/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.599	0.65	2.167	—	pCi/L	Y	U	U	2016-624	CAPA-16-109796	ARSL
R-39	859	10/29/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.473	0.732	2.51	—	pCi/L	Y	U	U	2016-265	CAPA-16-105578	ARSL
R-39	859	07/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.31	0.73	2.3	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100773	ARSL
R-39	859	04/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.773	0.54	1.741	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93449	ARSL
R-39	859	01/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.49	0.711	1.882	—	pCi/L	Y	—	NQ	2015-666	CAPA-15-91444	ARSL
R-41 S2	965.3	01/14/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.739	0.578	1.881	—	pCi/L	Y	U	U	2016-642	CAPA-16-109797	ARSL
R-41 S2	965.3	01/14/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.52	0.659	1.996	—	pCi/L	Y	U	U	2016-642	CAPA-16-109783	ARSL
R-41 S2	965.3	10/26/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.046	1.104	3.759	—	pCi/L	Y	U	U	2016-176	CAPA-16-105582	ARSL

Table C-1 TA-54 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-41 S2	965.3	07/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.858	0.731	2.168	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100774	ARSL
R-41 S2	965.3	04/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.551	0.708	2.164	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93453	ARSL
R-41 S2	965.3	01/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.16	0.694	2.204	—	pCi/L	Y	U	U	2015-666	CAPA-15-91445	ARSL
R-49 S1	845	01/12/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.436	0.599	2.001	—	pCi/L	Y	U	U	2016-624	CAPA-16-109798	ARSL
R-49 S1	845	10/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.706	0.693	2.281	—	pCi/L	Y	U	U	2016-176	CAPA-16-105583	ARSL
R-49 S1	845	10/22/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.007	0.663	2.259	—	pCi/L	Y	U	U	2016-176	CAPA-16-105539	ARSL
R-49 S1	845	07/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.204	0.716	2.274	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100775	ARSL
R-49 S1	845	04/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.533	0.635	2.108	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93454	ARSL
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.37	0.792	2.717	—	pCi/L	Y	U	U	2015-182	CAPA-14-87194	ARSL
R-51 S1	914.96	01/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.042	0.642	2.19	—	pCi/L	Y	U	U	2016-624	CAPA-16-109799	ARSL
R-51 S1	914.96	10/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.475	0.711	2.439	—	pCi/L	Y	U	U	2016-176	CAPA-16-105585	ARSL
R-51 S1	914.96	07/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.591	0.67	2.306	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100776	ARSL
R-51 S1	914.96	04/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.398	0.668	2.241	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93456	ARSL
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.357	0.769	2.618	—	pCi/L	Y	U	U	2015-135	CAPA-14-87196	ARSL
R-52 S1	1035.2	01/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.798	0.632	2.073	—	pCi/L	Y	U	U	2016-624	CAPA-16-109800	ARSL
R-52 S1	1035.2	10/21/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.585	0.733	2.512	—	pCi/L	Y	U	U	2016-109	CAPA-16-105587	ARSL
R-52 S1	1035.2	04/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.139	0.612	2.098	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93458	ARSL
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.772	0.748	2.567	—	pCi/L	Y	U	U	2015-120	CAPA-14-87198	ARSL
R-52 S1	1035.2	04/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.578	0.636	2.105	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57747	ARSL
R-53 S1	849.2	01/08/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.399	0.673	2.107	—	pCi/L	Y	U	U	2016-624	CAPA-16-109801	ARSL
R-53 S1	849.2	11/04/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.896	0.71	2.431	—	pCi/L	Y	U	U	2016-265	CAPA-16-105589	ARSL
R-53 S1	849.2	07/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.186	0.666	2.281	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100777	ARSL
R-53 S1	849.2	04/16/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.682	0.652	2.145	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93460	ARSL
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.45	0.721	2.479	—	pCi/L	Y	U	U	2015-182	CAPA-14-87200	ARSL
R-55 S1	860	01/05/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.164	0.566	1.914	—	pCi/L	Y	U	U	2016-623	CAMO-16-109709	ARSL
R-55 S1	860	10/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.5	0.712	2.402	—	pCi/L	Y	U	U	2016-107	CAMO-16-105767	ARSL
R-55 S1	860	07/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.619	0.705	2.334	—	pCi/L	Y	U	U	2015-1703	CAMO-15-100753	ARSL
R-55 S1	860	04/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.315	0.748	2.362	—	pCi/L	Y	U	U	2015-1091	CAMO-15-94138	ARSL
R-55 S1	860	01/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.369	0.646	2.169	—	pCi/L	Y	U	U	2015-667	CAMO-15-91419	ARSL
R-56 S1	945	01/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.535	0.704	2.199	—	pCi/L	Y	U	U	2016-624	CAPA-16-109802	ARSL
R-56 S1	945	11/03/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.549	0.759	2.528	—	pCi/L	Y	U	U	2016-265	CAPA-16-105593	ARSL
R-56 S1	945	07/14/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.919	0.694	2.383	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100761	ARSL
R-56 S1	945	07/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.041	0.724	2.333	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100778	ARSL
R-56 S1	945	04/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.569	0.63	2.086	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93464	ARSL
R-56 S1	945	01/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.141	0.645	2.188	—	pCi/L	Y	U	U	2015-712	CAPA-15-91449	ARSL
R-57 S1	910	01/05/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.028	0.633	2.033	—	pCi/L	Y	U	U	2016-624	CAPA-16-109803	ARSL
R-57 S1	910	10/30/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.573	0.746	2.515	—	pCi/L	Y	U	U	2016-265	CAPA-16-105595	ARSL
R-57 S1	910	07/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.812	0.705	2.307	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100779	ARSL
R-57 S1	910	04/15/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.666	0.63	2.071	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93466	ARSL
R-57 S1	910	01/12/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.704	0.738	2.235	—	pCi/L	Y	U	U	2015-666	CAPA-15-91450	ARSL

Table C-2 TA-54 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
03-B-13	21.5	04/04/16	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	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.48	—	—	0.01	SU	Y	H	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.82	—	—	0.01	SU	Y	H	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.6	—	—	0.01	SU	Y	H	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.66	—	—	0.01	SU	Y	H	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.3	—	—	0.01	SU	Y	H	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57	—	—	0.725	mg/L	Y	—	J-	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84	—	—	0.725	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	40.9	—	—	0.725	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	44.2	—	—	0.725	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	37.8	—	—	0.725	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	37.3	—	—	0.725	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	248	—	—	68	µg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	1150	—	—	68	µg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	7370	—	—	68	µg/L	Y	N	J+	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	1900	—	—	68	µg/L	Y	N	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Aluminum	Al	Y	2190	—	—	68	µg/L	Y	N	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00443	0.00626	0.0414	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00454	0.012	0.116	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0127	0.00945	0.108	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00747	0.00747	0.0724	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0244	0.0161	0.0731	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00501	0.006	0.043	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0512	—	—	0.017	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.162	—	—	0.017	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.165	—	—	0.017	mg/L	Y	—	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.08	—	—	0.017	mg/L	Y	—	U	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.103	—	—	0.017	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0714	—	—	0.017	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	232	—	—	1	µg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	118	—	—	1	µg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	163	—	—	1	µg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	81.5	—	—	1	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	57.5	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	59	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(b)fluoranthene	205-99-2	Y	0.19	—	—	0.15	µg/L	Y	J	J	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(b)fluoranthene	205-99-2	N	0.1	—	—	0.03	µg/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(b)fluoranthene	205-99-2	N	0.505	—	—	0.152	µg/L	Y	U	U	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	10/14/14	WG	UF	RE	REG	SVOC	SW-846:8270D	Benzo(b)fluoranthene	205-99-2	N	1.02	—	—	0.306	µg/L	N	U	U	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(b)fluoranthene	205-99-2	N	1.02	—	—	0.306	µg/L	Y	U	UJ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(b)fluoranthene	205-99-2	N	0.05	—	—	0.016	µg/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	SVOC	SW-846:8310	Benzo(b)fluoranthene	205-99-2	N	0.0538	—	—	0.0172	µg/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(b)fluoranthene	205-99-2	N	1.04	—	—	0.313	µg/L	Y	U	U	2014-2715	CAPA-14-49315	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(k)fluoranthene	207-08-9	Y	0.225	—	—	0.15	µg/L	Y	J	J	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(k)fluoranthene	207-08-9	N	0.1	—	—	0.03	µg/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(k)fluoranthene	207-08-9	N	0.505	—	—	0.152	µg/L	Y	U	U	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	10/14/14	WG	UF	RE	REG	SVOC	SW-846:8270D	Benzo(k)fluoranthene	207-08-9	N	1.02	—	—	0.306	µg/L	N	U	U	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(k)fluoranthene	207-08-9	N	1.02	—	—	0.306	µg/L	Y	U	UJ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	N	0.025	—	—	0.008	µg/L	Y	U	U	2014-3209	CAPA-14-56383	GELC

Table C-2 TA-54 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
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	N	0.0269	—	—	0.0086	µg/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1.04	—	—	0.313	µg/L	Y	U	U	2014-2715	CAPA-14-49315	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	33.1	—	—	15	µg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	42.1	—	—	15	µg/L	Y	J	J	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	33.2	—	—	15	µg/L	Y	J	J	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	45.7	—	—	15	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	41.4	—	—	15	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	42.2	—	—	15	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.191	—	—	0.067	mg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.11	—	—	0.067	mg/L	Y	J	J	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0933	—	—	0.067	mg/L	Y	J	J	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	62.3	—	—	0.05	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	28.3	—	—	0.05	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	32.4	—	—	0.05	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.61	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.82	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.31	1.33	5.05	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.32	1.48	5.46	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.07	1.46	4.96	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.75	1.5	5.98	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.79	1.65	6.3	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.689	1.3	4.2	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	196	—	—	3.35	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	73.4	—	—	1.34	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	164	—	—	3.35	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	50.1	—	—	0.67	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	38.9	—	—	0.67	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	38.9	—	—	0.67	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.73	—	—	0.3	µg/L	Y	J	J	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.45	—	—	0.3	µg/L	Y	HJ	J-	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	04/17/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.39	—	—	0.3	µg/L	Y	J	J	2015-1068	CAPA-15-93432	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.43	—	—	0.3	µg/L	Y	HJ	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.56	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.63	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.19	—	—	1	µg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.27	—	—	1	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.145	1.23	4	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.32	1.58	6.82	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.23	1.51	5.09	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.157	1.61	6.23	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.29	1.53	5.85	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.453	1.4	4.9	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC

Table C-2 TA-54 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
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	6.09	—	—	3	µg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	5.61	—	—	3	µg/L	Y	J	J	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	6.08	—	—	3	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.21	—	—	3	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.09	—	—	3	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	3.68	—	—	0.3	µg/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	3.5	—	—	0.3	µg/L	Y	H	J-	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	04/17/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.61	—	—	0.3	µg/L	Y	—	NQ	2015-1068	CAPA-15-93432	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.29	—	—	0.3	µg/L	Y	H	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.66	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.56	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	2.17	—	—	0.3	µg/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	2.08	—	—	0.3	µg/L	Y	H	J-	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	04/17/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	1.61	—	—	0.3	µg/L	Y	—	NQ	2015-1068	CAPA-15-93432	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	0.85	—	—	0.3	µg/L	Y	HJ	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	3.44	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	N	1	—	—	0.3	µg/L	Y	UH	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/04/16	WG	UF	DL	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	327	—	—	15	µg/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	DL	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	56.3	—	—	7.58	µg/L	Y	—	NQ	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	04/17/15	WG	UF	DL	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	232	—	—	12.8	µg/L	Y	—	NQ	2015-1068	CAPA-15-93432	GELC
03-B-13	21.5	10/14/14	WG	UF	RE	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	21.5	—	—	3.06	µg/L	Y	—	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	19.4	—	—	3.06	µg/L	N	—	J-	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	33.9	—	—	3	µg/L	Y	—	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	29	—	—	3.13	µg/L	Y	—	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.116	—	—	0.033	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.108	—	—	0.033	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0987	—	—	0.033	mg/L	Y	J	J	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0988	—	—	0.033	mg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0925	—	—	0.033	mg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.072	—	—	0.033	mg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.13	1.03	2.95	—	pCi/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.18	0.382	0.943	—	pCi/L	Y	—	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	3.09	0.519	1.33	—	pCi/L	Y	—	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.79	0.788	1.87	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	3.68	1.27	2.91	—	pCi/L	Y	—	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.62	1.2	2.3	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	15	0.815	1.94	—	pCi/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.86	0.513	1.54	—	pCi/L	Y	—	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	8.53	0.49	1.17	—	pCi/L	Y	—	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.71	1.11	2.97	—	pCi/L	Y	—	NQ	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	12.6	1.36	2.24	—	pCi/L	Y	—	NQ	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	16	2	2.4	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	216	—	—	0.453	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	97.5	—	—	0.453	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	108	—	—	0.453	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.9	—	—	0.453	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.1	—	—	0.453	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.1	—	—	0.453	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	14.6	—	—	0.11	mg/L	Y	E	NQ	2016-985	CAPA-16-114738	GELC

Table C-2 TA-54 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
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.51	—	—	0.11	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	7.86	—	—	0.11	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.58	—	—	0.11	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.46	—	—	0.11	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.57	—	—	0.11	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.891	—	—	0.165	µg/L	Y	—	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.893	—	—	0.165	µg/L	Y	—	U	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.338	—	—	0.165	µg/L	Y	J	J	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.667	—	—	0.165	µg/L	Y	—	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.367	—	—	0.165	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.366	—	—	0.165	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.21	2.51	8.98	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.921	3.11	11.2	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.56	2.83	10.2	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0677	2.97	10.5	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.21	3.45	11.7	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.98	2.8	8.3	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.21	—	—	0.5	µg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.2	—	—	0.5	µg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.21	—	—	0.5	µg/L	Y	J	J	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.23	—	—	0.5	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.73	—	—	0.5	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.77	—	—	0.5	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.61	—	—	0.085	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.09	—	—	0.017	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.51	—	—	0.085	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	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	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.529	—	—	0.017	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.561	—	—	0.017	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.57	—	—	0.05	µg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0739	—	—	0.05	µg/L	Y	J	J	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.141	—	—	0.05	µg/L	Y	J	J	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.177	—	—	0.05	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.388	—	—	0.05	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.382	—	—	0.05	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.01	0.00708	0.0481	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00472	0.0106	0.0558	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00544	0.0122	0.0643	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00476	0.05	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0151	0.00796	0.0468	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0108	0.0081	0.032	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0175	0.0103	0.0455	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00472	0.0125	0.0835	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0326	0.0154	0.0962	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00672	0.0602	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00903	0.00796	0.0397	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0108	0.011	0.052	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.82	—	—	0.05	mg/L	Y	E	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	7.15	—	—	0.05	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.6	—	—	0.05	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC

Table C-2 TA-54 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
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.5	—	—	0.05	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.35	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	5.43	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.2	17.7	57.2	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	35.5	20.9	56.6	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-23.4	18.9	71.1	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.9	19.4	71.8	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.9	19.4	77.1	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.6	20	70	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	2.07	—	—	1.5	µg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	11.1	—	—	0.053	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	19.2	—	—	0.053	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	11.1	—	—	0.053	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	43.6	—	—	0.053	mg/L	Y	—	J+	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	18.2	—	—	0.053	mg/L	Y	N	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	19.8	—	—	0.053	mg/L	Y	N	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	76.1	—	—	0.1	mg/L	Y	E	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	48.9	—	—	0.1	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	80.1	—	—	0.1	mg/L	Y	—	J+	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	34	—	—	0.1	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	28.9	—	—	0.1	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	29.5	—	—	0.1	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.849	1.31	4.67	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.17	1.57	5.7	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.401	1.42	5.55	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.899	1.63	6.55	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.02	1.58	5.57	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.14	1.5	4.4	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1040	—	—	3.63	µS/cm	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	499	—	—	1	µS/cm	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	674	—	—	3.63	µS/cm	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	259	—	—	3.63	µS/cm	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	234	—	—	1	µS/cm	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	232	—	—	1	µS/cm	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	356	—	—	1	µg/L	Y	E	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	165	—	—	1	µg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	194	—	—	1	µg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.7	—	—	1	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	55.2	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	56.5	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	0.836	0.179	0.465	—	pCi/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.24	0.145	0.481	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0497	0.14	0.487	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.275	0.151	0.494	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.336	0.149	0.484	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC

Table C-2 TA-54 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
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.386	0.16	0.49	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.6	—	—	0.133	mg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.11	—	—	0.133	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13.6	—	—	0.133	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.04	—	—	0.133	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.71	—	—	0.133	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.67	—	—	0.133	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.35	—	—	2.5	µg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	451	—	—	3.4	mg/L	Y	—	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	303	—	—	3.4	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	344	—	—	3.4	mg/L	Y	—	NQ	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	204	—	—	3.4	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	166	—	—	3.4	mg/L	Y	—	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	184	—	—	3.4	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	6.22	—	—	0.33	mg/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	5.62	—	—	0.33	mg/L	Y	—	NQ	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	5.15	—	—	0.33	mg/L	Y	—	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.85	—	—	0.33	mg/L	Y	—	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.92	—	—	0.33	mg/L	Y	—	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.33	—	—	0.33	mg/L	Y	—	NQ	2014-2715	CAPA-14-49315	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0239	—	—	0.017	mg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0694	—	—	0.017	mg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	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	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0297	—	—	0.017	mg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.23	—	—	0.017	mg/L	Y	—	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.14	—	—	0.017	mg/L	Y	—	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	92.4	—	—	0.3	µg/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	74.6	—	—	0.3	µg/L	Y	H	J-	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	04/17/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	68.5	—	—	0.3	µg/L	Y	—	NQ	2015-1068	CAPA-15-93432	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	72.3	—	—	0.3	µg/L	Y	H	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	97.4	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	95.2	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,2-]	79-00-5	Y	0.4	—	—	0.3	µg/L	Y	J	J	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,2-]	79-00-5	N	1	—	—	0.3	µg/L	Y	UH	UJ	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	04/17/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,2-]	79-00-5	N	1	—	—	0.3	µg/L	Y	U	U	2015-1068	CAPA-15-93432	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,2-]	79-00-5	N	1	—	—	0.3	µg/L	Y	UH	U	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,2-]	79-00-5	N	1	—	—	0.3	µg/L	Y	UH	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Trichloroethane[1,1,2-]	79-00-5	N	1	—	—	0.3	µg/L	Y	UH	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	1.01	—	—	0.3	µg/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	10/19/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.57	—	—	0.3	µg/L	Y	HJ	J-	2016-81	CAPA-16-105569	GELC
03-B-13	21.5	04/17/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.53	—	—	0.3	µg/L	Y	J	J	2015-1068	CAPA-15-93432	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.58	—	—	0.3	µg/L	Y	HJ	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.72	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.66	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.642	—	—	0.067	µg/L	Y	—	NQ	2016-985	CAPA-16-114738	GELC

Table C-2 TA-54 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
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.316	—	—	0.067	µg/L	Y	—	NQ	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.2	—	—	0.067	µg/L	Y	U	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.322	—	—	0.067	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.235	—	—	0.067	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.213	—	—	0.067	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.262	0.0245	0.0808	—	pCi/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0734	0.0267	0.117	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.102	0.0349	0.126	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.127	0.0236	0.0856	—	pCi/L	Y	—	NQ	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.066	0.0186	0.0769	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.259	0.033	0.084	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0531	0.0126	0.0553	—	pCi/L	Y	U	U	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00648	0.0112	0.113	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00699	0.0185	0.122	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00923	0.013	0.0397	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00156	0.00685	0.0549	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0144	0.0089	0.04	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.192	0.0204	0.0526	—	pCi/L	Y	—	NQ	2016-985	CAPA-16-114704	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.131	0.0292	0.0777	—	pCi/L	Y	—	J	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0396	0.0259	0.0839	—	pCi/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0597	0.0197	0.0517	—	pCi/L	Y	—	NQ	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0237	0.0115	0.0388	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.305	0.037	0.051	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	04/04/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.32	—	—	1	µg/L	Y	J	J	2016-985	CAPA-16-114738	GELC
03-B-13	21.5	10/19/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2016-81	CAPA-16-105597	GELC
03-B-13	21.5	04/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2015-1068	CAPA-15-93469	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.85	—	—	1	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.82	—	—	1	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.95	—	—	1	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.78	—	—	—	SU	Y	H	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.4	—	—	0.01	SU	Y	H	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.5	—	—	0.01	SU	Y	H	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.63	—	—	0.01	SU	Y	H	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.71	—	—	0.01	SU	Y	H	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.38	—	—	0.01	SU	Y	H	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.1	—	—	0.725	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.8	—	—	0.725	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	49.3	—	—	0.725	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	52.6	—	—	0.725	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.8	—	—	0.725	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.2	—	—	0.725	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00758	0.00758	0.0473	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00446	0.0063	0.0342	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00282	0.00746	0.0434	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00632	0.00699	0.0368	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0212	0.0959	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	3.81	—	—	1	µg/L	Y	J	J	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	3.8	—	—	1	µg/L	Y	J	J	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	3.93	—	—	1	µg/L	Y	J	J	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	3.85	—	—	1	µg/L	Y	J	J	2015-989	CAPA-15-93473	GELC

Table C-2 TA-54 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
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	3.66	—	—	1	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	4.6	—	—	1	µg/L	Y	J	J	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.17	—	—	0.05	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.89	—	—	0.05	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.83	—	—	0.05	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.75	—	—	0.05	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.73	—	—	0.05	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.99	—	—	0.05	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.54	1.2	4.51	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.93	2.02	6.18	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.84	1.74	5.11	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.46	1.09	4.59	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.85	1.67	6.43	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.39	—	—	0.067	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.42	—	—	0.067	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.41	—	—	0.067	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.46	—	—	0.067	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.46	—	—	0.067	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.44	—	—	0.067	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.93	1.19	3.8	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.33	1.29	5.36	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.232	1.61	6.29	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.979	1.28	5.4	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.13	1.57	6.88	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.151	—	—	0.033	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.164	—	—	0.033	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.172	—	—	0.033	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.181	—	—	0.033	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.181	—	—	0.033	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.165	—	—	0.033	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.536	0.682	2.64	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.393	0.486	1.66	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0376	0.275	1.02	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.226	0.609	2.63	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.13	0.861	2.98	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.29	0.852	2.98	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.05	0.427	0.9	—	pCi/L	Y	—	NQ	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.263	0.323	1.08	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.5	0.79	2.58	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.0664	0.574	2.23	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.3	—	—	0.453	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	30.4	—	—	0.453	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.2	—	—	0.453	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	30.9	—	—	0.453	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	30.8	—	—	0.453	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.5	—	—	0.453	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.27	—	—	0.11	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.25	—	—	0.11	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.22	—	—	0.11	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.2	—	—	0.11	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC

Table C-2 TA-54 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
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.18	—	—	0.11	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.19	—	—	0.11	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.165	µg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.928	—	—	0.165	µg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.938	—	—	0.165	µg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.11	—	—	0.165	µg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.621	2.12	7.49	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.45	3.06	10.1	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.78	3.21	12.2	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.54	2.36	9.08	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.94	2.69	9.9	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.133	—	—	0.017	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.123	—	—	0.017	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.119	—	—	0.017	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.134	—	—	0.017	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.173	—	—	0.017	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.15	—	—	0.017	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.178	—	—	0.05	µg/L	Y	J	J	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.178	—	—	0.05	µg/L	Y	J	J	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.186	—	—	0.05	µg/L	Y	J	J	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.173	—	—	0.05	µg/L	Y	J	J	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.145	—	—	0.05	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.171	—	—	0.05	µg/L	Y	J	J	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0104	0.0069	0.0399	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00669	0.00847	0.0325	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00584	0.0345	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00835	0.00835	0.065	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00272	0.00472	0.0423	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00208	0.0069	0.0378	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00863	0.00898	0.0496	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0165	0.0516	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00835	0.00835	0.0634	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00545	0.00545	0.0359	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.282	—	—	0.05	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.316	—	—	0.05	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	0.355	—	—	0.05	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.313	—	—	0.05	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.362	—	—	0.05	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.295	—	—	0.05	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.25	15.7	56.9	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.16	16.2	58.2	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.69	19.8	73.9	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.5	16.2	61	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-30.2	16.4	59.2	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.3	—	—	0.053	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.7	—	—	0.053	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.8	—	—	0.053	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73	—	—	0.053	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC

Table C-2 TA-54 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
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67.4	—	—	0.053	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.1	—	—	0.053	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	14	—	—	0.1	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.757	1.19	4.61	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0146	1.5	5.61	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.15	1.63	5.91	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.308	1.31	4.87	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.2	1.22	4.75	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	3.63	µS/cm	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	103	—	—	3.63	µS/cm	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	103	—	—	3.63	µS/cm	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105	—	—	3.63	µS/cm	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	98.1	—	—	3.63	µS/cm	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105	—	—	1	µS/cm	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.5	—	—	1	µg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.2	—	—	1	µg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	41.5	—	—	1	µg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	52	—	—	1	µg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48.6	—	—	1	µg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	67.8	—	—	1	µg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0089	0.087	0.297	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0214	0.133	0.482	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.13	0.0804	0.265	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.166	0.118	0.399	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.25	0.147	0.485	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.61	—	—	0.133	mg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.64	—	—	0.133	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.62	—	—	0.133	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.53	—	—	0.133	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.61	—	—	0.133	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.64	—	—	0.133	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	3.4	mg/L	Y	—	J	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	mg/L	Y	—	NQ	2016-256	CAPA-16-105540	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	mg/L	Y	—	NQ	2016-256	CAPA-16-105598	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	90	—	—	3.4	mg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	81.4	—	—	3.4	mg/L	Y	—	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.337	—	—	0.33	mg/L	Y	J	J	2016-1066	CAPA-16-114708	GELC
PCI-2	512	11/03/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.396	—	—	0.33	mg/L	Y	J	J	2016-256	CAPA-16-105537	GELC
PCI-2	512	11/03/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2016-256	CAPA-16-105570	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.53	—	—	0.063	mg/L	Y	BJL	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	10/27/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.454	—	—	0.33	mg/L	Y	J	J-	2015-161	CAPA-14-89328	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.334	—	—	0.067	µg/L	Y	—	NQ	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.351	—	—	0.067	µg/L	Y	—	U	2016-256	CAPA-16-105598	GELC

Table C-2 TA-54 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
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	N	0.323	—	—	0.067	µg/L	Y	—	U	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.31	—	—	0.067	µg/L	Y	—	NQ	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.312	—	—	0.067	µg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.383	—	—	0.067	µg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.144	0.0191	0.0827	—	pCi/L	Y	—	J	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.173	0.0222	0.088	—	pCi/L	Y	—	J	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.266	0.029	0.0608	—	pCi/L	Y	—	J	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.213	0.0251	0.066	—	pCi/L	Y	—	NQ	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.147	0.0333	0.105	—	pCi/L	Y	—	NQ	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0129	0.00858	0.0566	—	pCi/L	Y	U	U	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0142	0.00854	0.035	—	pCi/L	Y	U	U	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0112	0.0099	0.0435	—	pCi/L	Y	U	U	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00998	0.0088	0.0405	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00712	0.0743	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.0167	0.0538	—	pCi/L	Y	—	NQ	2016-1066	CAPA-16-114708	GELC
PCI-2	512	04/06/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.127	0.0177	0.0391	—	pCi/L	Y	—	J	2015-989	CAPA-15-93436	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.0203	0.0504	—	pCi/L	Y	—	NQ	2014-3163	CAPA-14-56387	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.102	0.0174	0.037	—	pCi/L	Y	—	NQ	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0921	0.0257	0.0524	—	pCi/L	Y	—	NQ	12-1241	CAPA-12-13281	GELC
PCI-2	512	04/14/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.31	—	—	1	µg/L	Y	J	J	2016-1066	CAPA-16-114742	GELC
PCI-2	512	11/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.53	—	—	1	µg/L	Y	J	J	2016-256	CAPA-16-105598	GELC
PCI-2	512	11/03/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.56	—	—	1	µg/L	Y	J	J	2016-256	CAPA-16-105540	GELC
PCI-2	512	04/06/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.14	—	—	1	µg/L	Y	J	J	2015-989	CAPA-15-93473	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.47	—	—	1	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.46	—	—	1	µg/L	Y	J	J	2014-3163	CAPA-14-56398	GELC
R-20 S1	904.6	04/13/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	Y	3.46	—	—	1.5	µg/L	Y	J	J-	2016-1054	CAPA-16-114711	GELC
R-20 S1	904.6	04/21/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	1.5	µg/L	Y	U	UJ	2015-1084	CAPA-15-93442	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3	µg/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	04/03/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3	µg/L	Y	UH	U	2014-3121	CAPA-14-57731	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3	µg/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	04/13/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	Y	0.59	—	—	0.3	µg/L	Y	J	J-	2016-1054	CAPA-16-114711	GELC
R-20 S1	904.6	04/21/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	UJ	2015-1084	CAPA-15-93442	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	04/03/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	UH	U	2014-3121	CAPA-14-57731	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	04/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.798	0.628	2.043	—	pCi/L	Y	U	U	2016-1058	CAPA-16-114711	ARSL
R-20 S1	904.6	04/21/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.739	0.668	2.191	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93442	ARSL
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.225	0.594	2.037	—	pCi/L	Y	U	U	2015-228	CAPA-14-87182	ARSL
R-20 S1	904.6	04/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.87	0.66	2.13	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57731	ARSL
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.983	0.629	2.013	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49376	ARSL
R-20 S2	1147	04/11/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.65	—	—	0.3	µg/L	Y	HJ	J-	2016-1028	CAPA-16-114712	GELC
R-20 S2	1147	10/26/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.57	—	—	0.3	µg/L	Y	J	J	2016-143	CAPA-16-105572	GELC
R-20 S2	1147	04/16/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	N	1	—	—	0.3	µg/L	Y	UH	UJ	2015-1064	CAPA-15-93443	GELC
R-20 S2	1147	10/20/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.36	—	—	0.3	µg/L	Y	J	J	2015-113	CAPA-14-87183	GELC
R-20 S2	1147	04/01/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.32	—	—	0.3	µg/L	Y	J	J	2014-3106	CAPA-14-57732	GELC
R-20 S2	1147	04/11/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	Y	1.32	—	—	0.3	µg/L	Y	H	J-	2016-1028	CAPA-16-114712	GELC
R-20 S2	1147	10/26/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	Y	0.32	—	—	0.3	µg/L	Y	J	J	2016-143	CAPA-16-105572	GELC
R-20 S2	1147	04/16/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	UH	UJ	2015-1064	CAPA-15-93443	GELC
R-20 S2	1147	10/20/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147	04/01/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2014-3106	CAPA-14-57732	GELC

Table C-2 TA-54 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-20 S2	1147	04/11/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.633	0.621	2.044	—	pCi/L	Y	U	U	2016-1058	CAPA-16-114712	ARSL
R-20 S2	1147	10/26/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.695	0.676	2.224	—	pCi/L	Y	U	U	2016-176	CAPA-16-105572	ARSL
R-20 S2	1147	04/16/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	7.662	1.748	3.948	—	pCi/L	Y	—	J+	2015-1090	CAPA-15-93443	ARSL
R-20 S2	1147	10/20/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.39	0.765	2.619	—	pCi/L	Y	U	U	2015-120	CAPA-14-87183	ARSL
R-20 S2	1147	04/01/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.63	0.654	2.246	—	pCi/L	Y	U	U	2014-3113	CAPA-14-57732	ARSL
R-20 S2	1147	04/11/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.73	—	—	0.3	µg/L	Y	HJ	J-	2016-1028	CAPA-16-114712	GELC
R-20 S2	1147	10/26/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	1.12	—	—	0.3	µg/L	Y	J	J	2016-143	CAPA-16-105572	GELC
R-20 S2	1147	04/16/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.51	—	—	0.3	µg/L	Y	HJ	J-	2015-1064	CAPA-15-93443	GELC
R-20 S2	1147	10/20/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.69	—	—	0.3	µg/L	Y	J	J	2015-113	CAPA-14-87183	GELC
R-20 S2	1147	04/01/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.75	—	—	0.3	µg/L	Y	J	J	2014-3106	CAPA-14-57732	GELC
R-21	888.8	04/05/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.763	0.731	2.197	—	pCi/L	Y	U	U	2016-1007	CAMO-16-114792	ARSL
R-21	888.8	01/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.661	0.645	2.142	—	pCi/L	Y	U	U	2016-623	CAMO-16-109705	ARSL
R-21	888.8	10/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.58	0.744	2.553	—	pCi/L	Y	U	U	2016-107	CAMO-16-105763	ARSL
R-21	888.8	07/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.523	0.75	2.324	—	pCi/L	Y	U	U	2015-1610	CAMO-15-100749	ARSL
R-21	888.8	04/06/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.809	0.732	2.4	—	pCi/L	Y	U	U	2015-1004	CAMO-15-94134	ARSL
R-23	816	04/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.39	0.676	2.269	—	pCi/L	Y	U	U	2016-1058	CAPA-16-114713	ARSL
R-23	816	01/11/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.471	0.703	2.373	—	pCi/L	Y	U	U	2016-624	CAPA-16-109794	ARSL
R-23	816	10/29/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0	0.672	2.284	—	pCi/L	Y	U	U	2016-265	CAPA-16-105573	ARSL
R-23	816	07/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.085	0.642	2.181	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100771	ARSL
R-23	816	04/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.023	0.674	2.161	—	pCi/L	Y	U	U	2015-1006	CAPA-15-93444	ARSL
R-23i S2	470.2	04/11/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	18.378	2.895	1.934	—	pCi/L	Y	—	J-	2016-1058	CAPA-16-114715	ARSL
R-23i S2	470.2	10/26/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.683	2.825	2.25	—	pCi/L	Y	—	J-	2016-176	CAPA-16-105575	ARSL
R-23i S2	470.2	10/26/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	18.072	2.86	2.047	—	pCi/L	Y	—	J-	2016-176	CAPA-16-105538	ARSL
R-23i S2	470.2	04/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.754	3.142	2.378	—	pCi/L	Y	—	NQ	2015-1003	CAPA-15-93446	ARSL
R-23i S2	470.2	04/07/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.122	3.056	2.437	—	pCi/L	Y	—	NQ	2015-1003	CAPA-15-93394	ARSL
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	22.491	3.586	2.81	—	pCi/L	Y	—	NQ	2015-196	CAPA-14-87186	ARSL
R-23i S2	470.2	04/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	15.454	2.475	2.056	—	pCi/L	Y	—	J-	2014-3281	CAPA-14-57735	ARSL
R-23i S3	524	04/18/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	16.524	2.599	1.717	—	pCi/L	Y	—	J-	2016-1103	CAPA-16-114716	ARSL
R-23i S3	524	11/02/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	18.344	2.944	2.515	—	pCi/L	Y	—	J-	2016-265	CAPA-16-105576	ARSL
R-23i S3	524	04/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.362	3.089	2.415	—	pCi/L	Y	—	NQ	2015-1006	CAPA-15-93447	ARSL
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.657	3.148	2.628	—	pCi/L	Y	—	J-	2015-120	CAPA-14-87187	ARSL
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	20.847	3.29	2.32	—	pCi/L	Y	—	J-	2015-120	CAPA-14-87152	ARSL
R-23i S3	524	04/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	15.79	2.47	1.52	—	pCi/L	Y	—	J-	2014-3169	CAPA-14-57736	ARSL
R-32 S1	867.5	04/15/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.053	0.652	2.215	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114717	ARSL
R-32 S1	867.5	01/08/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.715	0.603	2.068	—	pCi/L	Y	U	U	2016-624	CAPA-16-109795	ARSL
R-32 S1	867.5	11/02/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.145	0.717	2.426	—	pCi/L	Y	U	U	2016-265	CAPA-16-105577	ARSL
R-32 S1	867.5	07/13/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.694	0.683	2.349	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100772	ARSL
R-32 S1	867.5	04/17/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.045	0.78	2.294	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93448	ARSL
R-37 S1	929.3	04/12/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	31.887	4.896	1.892	—	pCi/L	Y	—	J-	2016-1059	CAMO-16-114793	ARSL
R-37 S1	929.3	04/12/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	30.475	4.686	1.891	—	pCi/L	Y	—	J-	2016-1059	CAMO-16-114790	ARSL
R-37 S1	929.3	01/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	28.148	4.316	1.658	—	pCi/L	Y	—	J-	2016-623	CAMO-16-109706	ARSL
R-37 S1	929.3	01/13/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	31.636	4.863	2.028	—	pCi/L	Y	—	J-	2016-623	CAMO-16-109699	ARSL
R-37 S1	929.3	10/21/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	31.721	4.907	2.448	—	pCi/L	Y	—	NQ	2016-108	CAMO-16-105764	ARSL
R-37 S1	929.3	07/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	30.751	4.755	2.282	—	pCi/L	Y	—	J-	2015-1703	CAMO-15-100750	ARSL
R-37 S1	929.3	07/14/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	33.589	5.168	2.174	—	pCi/L	Y	—	J-	2015-1703	CAMO-15-100743	ARSL
R-37 S1	929.3	04/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	32.055	4.939	2.109	—	pCi/L	Y	—	J-	2015-1048	CAMO-15-94135	ARSL
R-37 S2	1026	04/08/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.547	0.643	2.135	—	pCi/L	Y	U	U	2016-1059	CAMO-16-114794	ARSL
R-37 S2	1026	01/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.018	0.635	2.168	—	pCi/L	Y	U	U	2016-623	CAMO-16-109707	ARSL
R-37 S2	1026	10/28/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.007	0.66	2.248	—	pCi/L	Y	U	U	2016-209	CAMO-16-105765	ARSL
R-37 S2	1026	07/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.429	0.634	1.929	—	pCi/L	Y	U	U	2015-1610	CAMO-15-100751	ARSL

Table C-2 TA-54 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-37 S2	1026	04/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.708	0.722	2.382	—	pCi/L	Y	U	U	2015-1048	CAMO-15-94136	ARSL
R-38	821.2	04/04/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.078	0.572	1.953	—	pCi/L	Y	U	U	2016-1007	CAMO-16-114795	ARSL
R-38	821.2	01/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.572	0.567	1.945	—	pCi/L	Y	U	U	2016-623	CAMO-16-109708	ARSL
R-38	821.2	10/19/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	6.705	1.313	2.448	—	pCi/L	Y	—	NQ	2016-107	CAMO-16-105755	ARSL
R-38	821.2	10/19/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.261	0.738	2.486	—	pCi/L	Y	U	U	2016-107	CAMO-16-105766	ARSL
R-38	821.2	07/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.275	0.694	2.34	—	pCi/L	Y	U	U	2015-1703	CAMO-15-100752	ARSL
R-38	821.2	04/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4	0.726	2.438	—	pCi/L	Y	U	U	2015-1004	CAMO-15-94137	ARSL
R-38	821.2	04/07/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.142	0.645	2.187	—	pCi/L	Y	U	U	2015-1004	CAMO-15-94127	ARSL
R-39	859	04/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.333	0.635	2.133	—	pCi/L	Y	U	U	2016-1058	CAPA-16-114718	ARSL
R-39	859	01/11/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.599	0.65	2.167	—	pCi/L	Y	U	U	2016-624	CAPA-16-109796	ARSL
R-39	859	10/29/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.473	0.732	2.51	—	pCi/L	Y	U	U	2016-265	CAPA-16-105578	ARSL
R-39	859	07/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.31	0.73	2.3	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100773	ARSL
R-39	859	04/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.773	0.54	1.741	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93449	ARSL
R-40 S1	751.6	04/18/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	2.16	—	—	0.3	µg/L	Y	—	J-	2016-1078	CAPA-16-114719	GELC
R-40 S1	751.6	10/29/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	UH	UJ	2016-226	CAPA-16-105579	GELC
R-40 S1	751.6	04/13/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.91	—	—	0.3	µg/L	Y	J	J	2015-1026	CAPA-15-93450	GELC
R-40 S1	751.6	10/28/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.75	—	—	0.3	µg/L	Y	J	J	2015-172	CAPA-14-87190	GELC
R-40 S1	751.6	04/15/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.72	—	—	0.3	µg/L	Y	HJ	J	2014-3229	CAPA-14-57739	GELC
R-40 S1	751.6	04/18/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.513	0.588	2.023	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114719	ARSL
R-40 S1	751.6	10/29/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.318	0.708	2.424	—	pCi/L	Y	U	U	2016-265	CAPA-16-105579	ARSL
R-40 S1	751.6	04/13/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.785	0.752	2.266	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93450	ARSL
R-40 S1	751.6	10/28/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.636	0.794	2.731	—	pCi/L	Y	U	U	2015-182	CAPA-14-87190	ARSL
R-40 S1	751.6	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.106	0.588	2.006	—	pCi/L	Y	U	U	2014-3216	CAPA-14-57739	ARSL
R-40 S2	849.3	04/15/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.571	0.64	2.202	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114720	ARSL
R-40 S2	849.3	10/30/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.967	0.733	2.509	—	pCi/L	Y	U	U	2016-265	CAPA-16-105580	ARSL
R-40 S2	849.3	04/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.086	0.669	2.276	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93451	ARSL
R-40 S2	849.3	10/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.458	0.707	2.424	—	pCi/L	Y	U	U	2015-120	CAPA-14-87191	ARSL
R-40 S2	849.3	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.57	0.62	2.04	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57740	ARSL
R-40 Si	649.7	04/18/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.574	0.608	2.091	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114721	ARSL
R-40 Si	649.7	10/29/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.701	0.78	2.392	—	pCi/L	Y	U	U	2016-265	CAPA-16-105581	ARSL
R-40 Si	649.7	04/13/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.857	0.652	2.117	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93452	ARSL
R-40 Si	649.7	10/28/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.321	0.953	3.218	—	pCi/L	Y	U	U	2015-182	CAPA-14-87192	ARSL
R-40 Si	649.7	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.476	1.106	3.787	—	pCi/L	Y	U	U	2014-3216	CAPA-14-57741	ARSL
R-41 S2	965.3	04/11/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.555	0.66	2.191	—	pCi/L	Y	U	U	2016-1058	CAPA-16-114722	ARSL
R-41 S2	965.3	01/14/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.739	0.578	1.881	—	pCi/L	Y	U	U	2016-642	CAPA-16-109797	ARSL
R-41 S2	965.3	01/14/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.52	0.659	1.996	—	pCi/L	Y	U	U	2016-642	CAPA-16-109783	ARSL
R-41 S2	965.3	10/26/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.046	1.104	3.759	—	pCi/L	Y	U	U	2016-176	CAPA-16-105582	ARSL
R-41 S2	965.3	07/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.858	0.731	2.168	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100774	ARSL
R-41 S2	965.3	04/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.551	0.708	2.164	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93453	ARSL
R-49 S1	845	04/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.11	0.655	2.076	—	pCi/L	Y	U	U	2016-1058	CAPA-16-114723	ARSL
R-49 S1	845	01/12/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.436	0.599	2.001	—	pCi/L	Y	U	U	2016-624	CAPA-16-109798	ARSL
R-49 S1	845	10/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.706	0.693	2.281	—	pCi/L	Y	U	U	2016-176	CAPA-16-105583	ARSL
R-49 S1	845	10/22/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.007	0.663	2.259	—	pCi/L	Y	U	U	2016-176	CAPA-16-105539	ARSL
R-49 S1	845	07/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.204	0.716	2.274	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100775	ARSL
R-49 S1	845	04/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.533	0.635	2.108	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93454	ARSL
R-49 S2	905.6	04/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.402	0.623	2.145	—	pCi/L	Y	U	U	2016-1058	CAPA-16-114724	ARSL
R-49 S2	905.6	10/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.573	0.61	2.101	—	pCi/L	Y	U	U	2016-176	CAPA-16-105584	ARSL
R-49 S2	905.6	04/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.183	0.729	2.323	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93455	ARSL
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.077	0.936	3.182	—	pCi/L	Y	U	U	2015-182	CAPA-14-87195	ARSL
R-49 S2	905.6	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.02	0.62	2.1	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57744	ARSL

Table C-2 TA-54 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-51 S1	915	04/05/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.248	0.706	2.231	—	pCi/L	Y	U	U	2016-1006	CAPA-16-114725	ARSL
R-51 S1	915	04/05/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.899	0.828	2.511	—	pCi/L	Y	U	U	2016-1006	CAPA-16-114668	ARSL
R-51 S1	915	01/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.042	0.642	2.19	—	pCi/L	Y	U	U	2016-624	CAPA-16-109799	ARSL
R-51 S1	915	10/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.475	0.711	2.439	—	pCi/L	Y	U	U	2016-176	CAPA-16-105585	ARSL
R-51 S1	915	07/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.591	0.67	2.306	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100776	ARSL
R-51 S1	915	04/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.398	0.668	2.241	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93456	ARSL
R-51 S2	1031	04/05/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.801	0.554	1.785	—	pCi/L	Y	U	U	2016-1006	CAPA-16-114726	ARSL
R-51 S2	1031	10/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.388	0.75	2.551	—	pCi/L	Y	U	U	2016-176	CAPA-16-105586	ARSL
R-51 S2	1031	04/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.94	0.648	2.087	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93457	ARSL
R-51 S2	1031	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.259	0.785	2.68	—	pCi/L	Y	U	U	2015-135	CAPA-14-87197	ARSL
R-51 S2	1031	10/22/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.268	0.686	2.33	—	pCi/L	Y	U	U	2015-135	CAPA-14-87153	ARSL
R-51 S2	1031	04/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.217	0.611	2.061	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57746	ARSL
R-52 S1	1035	04/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.767	0.652	2.132	—	pCi/L	Y	U	U	2016-1006	CAPA-16-114727	ARSL
R-52 S1	1035	01/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.798	0.632	2.073	—	pCi/L	Y	U	U	2016-624	CAPA-16-109800	ARSL
R-52 S1	1035	10/21/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.585	0.733	2.512	—	pCi/L	Y	U	U	2016-109	CAPA-16-105587	ARSL
R-52 S1	1035	04/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.139	0.612	2.098	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93458	ARSL
R-52 S1	1035	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.772	0.748	2.567	—	pCi/L	Y	U	U	2015-120	CAPA-14-87198	ARSL
R-52 S2	1107	04/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.696	0.694	2.287	—	pCi/L	Y	U	U	2016-1006	CAPA-16-114728	ARSL
R-52 S2	1107	10/21/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.082	0.646	2.202	—	pCi/L	Y	U	U	2016-109	CAPA-16-105588	ARSL
R-52 S2	1107	04/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.637	0.636	2.096	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93459	ARSL
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.219	0.746	2.548	—	pCi/L	Y	U	U	2015-120	CAPA-14-87199	ARSL
R-52 S2	1107	04/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.155	0.442	1.514	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57748	ARSL
R-53 S1	849.2	04/19/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.142	0.6	2.053	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114729	ARSL
R-53 S1	849.2	01/08/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.399	0.673	2.107	—	pCi/L	Y	U	U	2016-624	CAPA-16-109801	ARSL
R-53 S1	849.2	11/04/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.896	0.71	2.431	—	pCi/L	Y	U	U	2016-265	CAPA-16-105589	ARSL
R-53 S1	849.2	07/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.186	0.666	2.281	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100777	ARSL
R-53 S1	849.2	04/16/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.682	0.652	2.145	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93460	ARSL
R-53 S2	959.7	04/19/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.325	0.573	1.922	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114730	ARSL
R-53 S2	959.7	11/04/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.301	0.669	2.29	—	pCi/L	Y	U	U	2016-265	CAPA-16-105590	ARSL
R-53 S2	959.7	04/16/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.146	0.588	2.015	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93461	ARSL
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.133	0.716	2.448	—	pCi/L	Y	U	U	2015-182	CAPA-14-87201	ARSL
R-53 S2	959.7	04/02/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.031	0.807	2.623	—	pCi/L	Y	U	U	2014-3113	CAPA-14-57750	ARSL
R-54 S1	830	04/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.52	0.58	1.921	—	pCi/L	Y	U	U	2016-1006	CAPA-16-114731	ARSL
R-54 S1	830	10/27/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.008	0.835	2.839	—	pCi/L	Y	U	U	2016-176	CAPA-16-105591	ARSL
R-54 S1	830	04/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.054	0.619	2.117	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93462	ARSL
R-54 S1	830	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.616	0.764	2.623	—	pCi/L	Y	U	U	2015-135	CAPA-14-87202	ARSL
R-54 S1	830	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.48	0.534	1.768	—	pCi/L	Y	U	U	2014-3214	CAPA-14-57751	ARSL
R-54 S2	915	04/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.13	0.7	1.969	—	pCi/L	Y	—	J-	2016-1006	CAPA-16-114732	ARSL
R-54 S2	915	10/27/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.14	0.74	2.528	—	pCi/L	Y	U	U	2016-176	CAPA-16-105592	ARSL
R-54 S2	915	04/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.324	0.634	2.133	—	pCi/L	Y	U	U	2015-1047	CAPA-15-93463	ARSL
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.072	0.926	3.143	—	pCi/L	Y	U	U	2015-135	CAPA-14-87203	ARSL
R-54 S2	915	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.601	0.587	2.016	—	pCi/L	Y	U	U	2014-3214	CAPA-14-57752	ARSL
R-54 S2	915	04/15/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.484	0.608	2.031	—	pCi/L	Y	U	U	2014-3214	CAPA-14-57705	ARSL
R-55 S1	860	04/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.045	0.608	2.077	—	pCi/L	Y	U	U	2016-1059	CAMO-16-114796	ARSL
R-55 S1	860	01/05/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.164	0.566	1.914	—	pCi/L	Y	U	U	2016-623	CAMO-16-109709	ARSL
R-55 S1	860	10/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.5	0.712	2.402	—	pCi/L	Y	U	U	2016-107	CAMO-16-105767	ARSL
R-55 S1	860	07/09/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.619	0.705	2.334	—	pCi/L	Y	U	U	2015-1703	CAMO-15-100753	ARSL
R-55 S1	860	04/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.315	0.748	2.362	—	pCi/L	Y	U	U	2015-1091	CAMO-15-94138	ARSL
R-55 S2	994.4	04/07/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.523	0.714	2.195	—	pCi/L	Y	U	U	2016-1059	CAMO-16-114797	ARSL
R-55 S2	994.4	10/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.048	0.776	2.512	—	pCi/L	Y	U	U	2016-107	CAMO-16-105768	ARSL

Table C-2 TA-54 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-55 S2	994.4	04/20/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.264	0.67	2.263	—	pCi/L	Y	U	U	2015-1091	CAMO-15-94139	ARSL
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.083	0.678	2.323	—	pCi/L	Y	U	U	2015-92	CAMO-14-87139	ARSL
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.659	0.682	2.254	—	pCi/L	Y	U	U	2015-92	CAMO-14-87126	ARSL
R-55 S2	994.4	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.31	0.55	1.84	—	pCi/L	Y	U	U	2014-3168	CAMO-14-57545	ARSL
R-55i	510	04/08/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.982	0.652	2.094	—	pCi/L	Y	U	U	2016-1059	CAMO-16-114798	ARSL
R-55i	510	10/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.311	0.697	2.185	—	pCi/L	Y	U	U	2016-178	CAMO-16-105769	ARSL
R-55i	510	04/07/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.285	0.696	2.187	—	pCi/L	Y	U	U	2015-1004	CAMO-15-94140	ARSL
R-55i	510	10/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.623	0.808	2.685	—	pCi/L	Y	U	U	2015-119	CAMO-14-87140	ARSL
R-55i	510	04/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.202	0.541	1.823	—	pCi/L	Y	U	U	2014-3280	CAMO-14-57546	ARSL
R-56 S1	945	04/14/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.17	0.603	2.053	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114733	ARSL
R-56 S1	945	01/13/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.535	0.704	2.199	—	pCi/L	Y	U	U	2016-624	CAPA-16-109802	ARSL
R-56 S1	945	11/03/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.549	0.759	2.528	—	pCi/L	Y	U	U	2016-265	CAPA-16-105593	ARSL
R-56 S1	945	07/14/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.919	0.694	2.383	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100761	ARSL
R-56 S1	945	07/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.041	0.724	2.333	—	pCi/L	Y	U	U	2015-1704	CAPA-15-100778	ARSL
R-56 S1	945	04/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.569	0.63	2.086	—	pCi/L	Y	U	U	2015-1133	CAPA-15-93464	ARSL
R-56 S2	1047	04/14/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.689	0.638	2.196	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114734	ARSL
R-56 S2	1047	11/03/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.211	0.698	2.384	—	pCi/L	Y	U	U	2016-265	CAPA-16-105594	ARSL
R-56 S2	1047	10/30/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.105	0.842	2.86	—	pCi/L	Y	U	U	2015-228	CAPA-14-87205	ARSL
R-56 S2	1047	04/18/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.478	0.476	1.637	—	pCi/L	Y	U	U	2014-3281	CAPA-14-57754	ARSL
R-56 S2	1047	12/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.424	0.653	1.998	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49399	ARSL
R-57 S1	910	04/19/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.831	0.647	2.223	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114735	ARSL
R-57 S1	910	01/05/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.028	0.633	2.033	—	pCi/L	Y	U	U	2016-624	CAPA-16-109803	ARSL
R-57 S1	910	10/30/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.573	0.746	2.515	—	pCi/L	Y	U	U	2016-265	CAPA-16-105595	ARSL
R-57 S1	910	07/08/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.812	0.705	2.307	—	pCi/L	Y	U	U	2015-1611	CAPA-15-100779	ARSL
R-57 S1	910	04/15/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.666	0.63	2.071	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93466	ARSL
R-57 S2	971.5	04/19/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.997	0.688	2.361	—	pCi/L	Y	U	U	2016-1103	CAPA-16-114736	ARSL
R-57 S2	971.5	10/30/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.873	0.739	2.456	—	pCi/L	Y	U	U	2016-265	CAPA-16-105596	ARSL
R-57 S2	971.5	04/15/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.129	0.631	2.162	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93395	ARSL
R-57 S2	971.5	04/15/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.324	0.567	1.904	—	pCi/L	Y	U	U	2015-1090	CAPA-15-93467	ARSL
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.297	0.739	2.529	—	pCi/L	Y	U	U	2015-120	CAPA-14-87207	ARSL
R-57 S2	971.5	04/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.01	0.47	1.59	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57756	ARSL

Appendix D

Groundwater Results Greater Than Half of Screening Levels

Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Unit	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level Code	Result/Screening Level
Intermediate	03-B-13	21.5	04/04/2016	SVOC[a]	Benzo(b)fluoranthene	205-99-2	UF[b]	INIT[c]	REG[d]	Y[e]	0.19	0.15	µg/L	1	J[f]	J[g]	J_LAB[h]	Y	SW-846:8270D	GELC[i]	0.34	EPA TAP SCRN LVL[j]	0.56
Intermediate	03-B-13	21.5	04/04/2016	General Chemistry	Chloride	Cl(-1)	F[k]	INIT	REG	Y	196	3.35	mg/L	50	—[l]	NQ[m]	NQ	Y	EPA:300.0	GELC	250	NMWQCC GW STD[n]	0.78
Intermediate	03-B-13	21.5	04/04/2016	SVOC	Dioxane[1,4-]	123-91-1	UF	DL[o]	REG	Y	327	15	µg/L	10	—	NQ	NQ	Y	SW-846:8270D	GELC	4.6	EPA TAP SCRN LVL	71.09
Intermediate	03-B-13	21.5	04/04/2016	VOC[p]	Trichloroethane[1,1,1-]	71-55-6	UF	INIT	REG	Y	92.4	0.3	µg/L	1	—	NQ	NQ	Y	SW-846:8260B	GELC	60	NMWQCC GW STD	1.54

[a] SVOC = Semivolatile organic compound.

[b] UF = Unfiltered.

[c] INIT = Initial.

[d] REG = Regular.

[e] Y = Yes.

[f] In this column, J = The associated numerical value is an estimated quantity.

[g] In this column, J = The analyte is classified as detected, but the reported concentration value is expected to be more uncertain

[h] J_LAB = The analytical laboratory qualified the detected result as estimated (J) because the result was less than the practical quantitation limit but greater than the method detection limit.

[i] GELC = General Engineering Laboratories, Inc., Charleston, SC.

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

[k] F = Filtered.

[l] — = None.

[m] NQ = Not qualified.

[n] NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

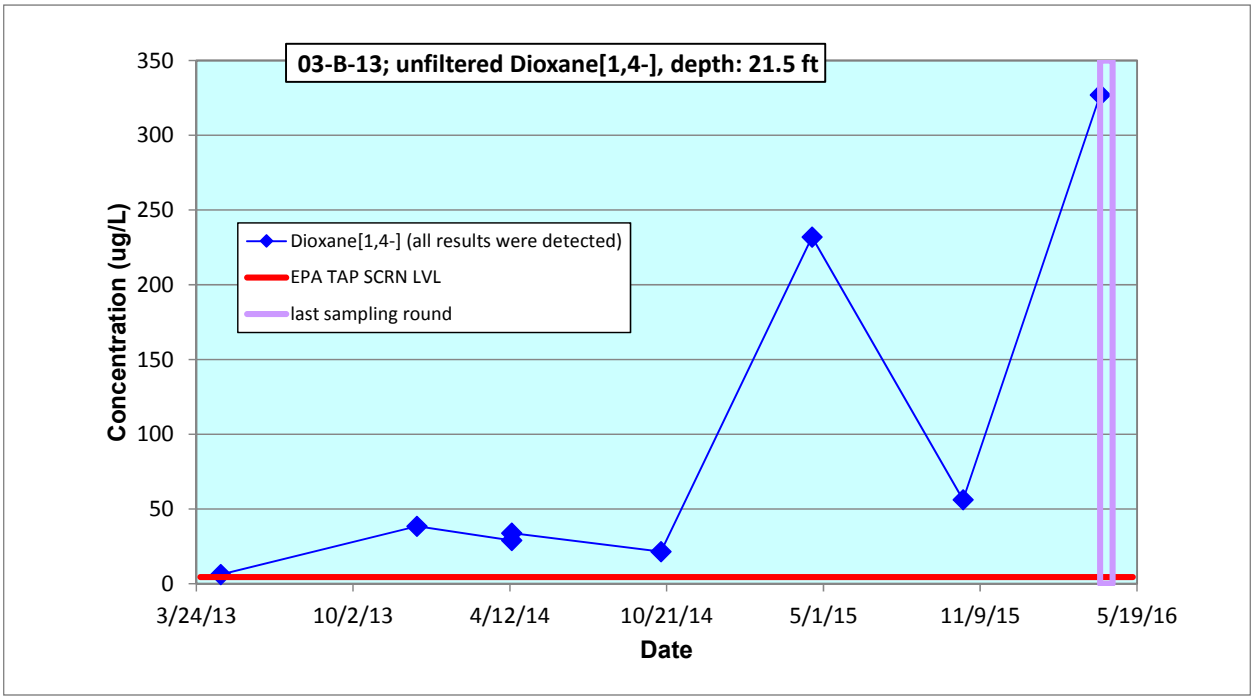
[o] DL = Dilution.

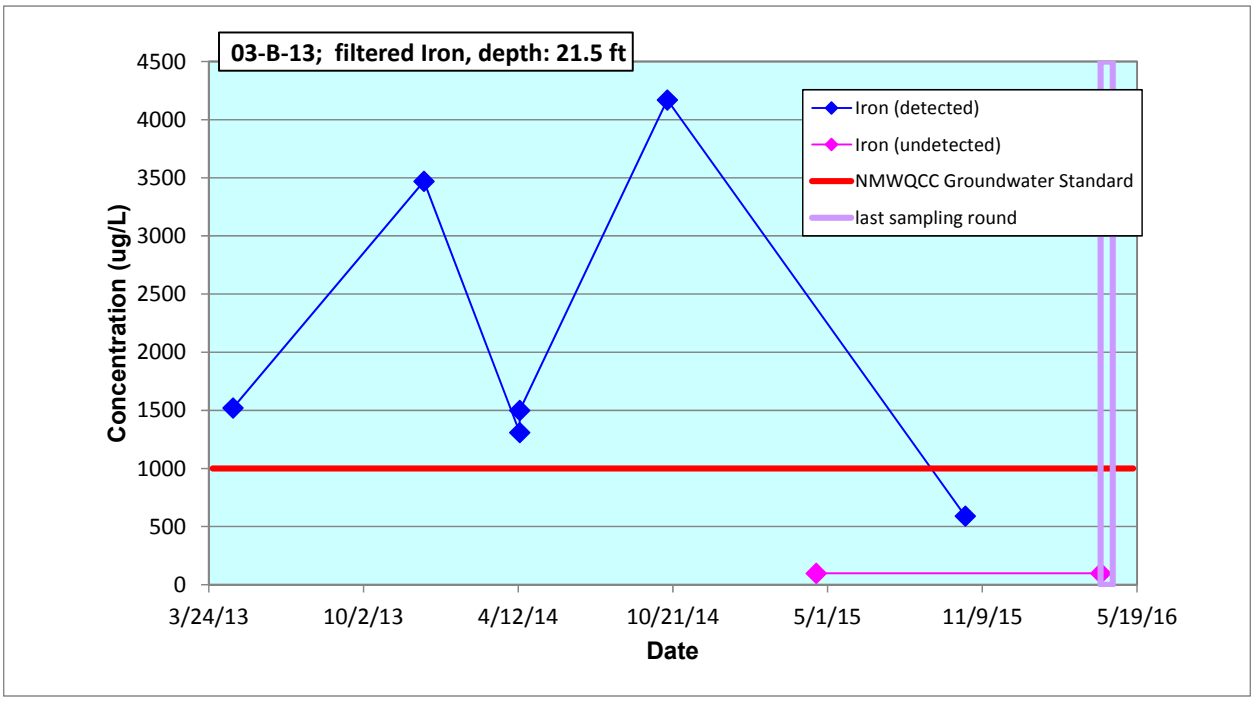
[p] VOC = Volatile organic compound.

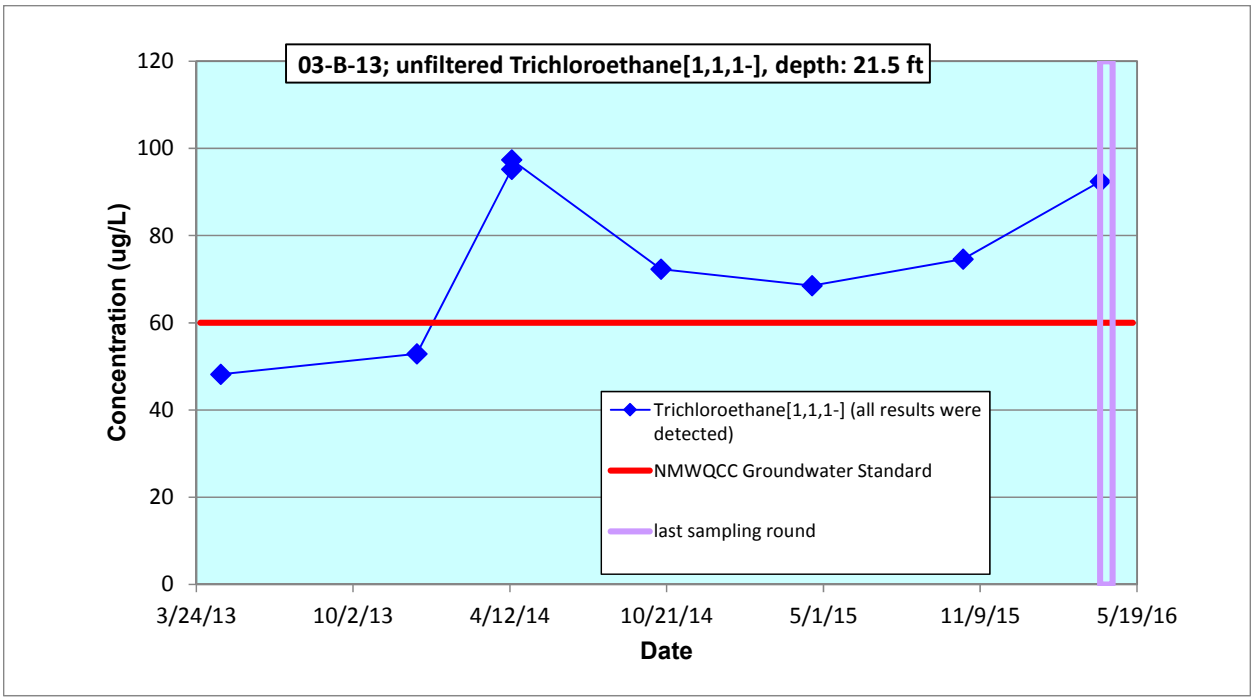
Appendix E

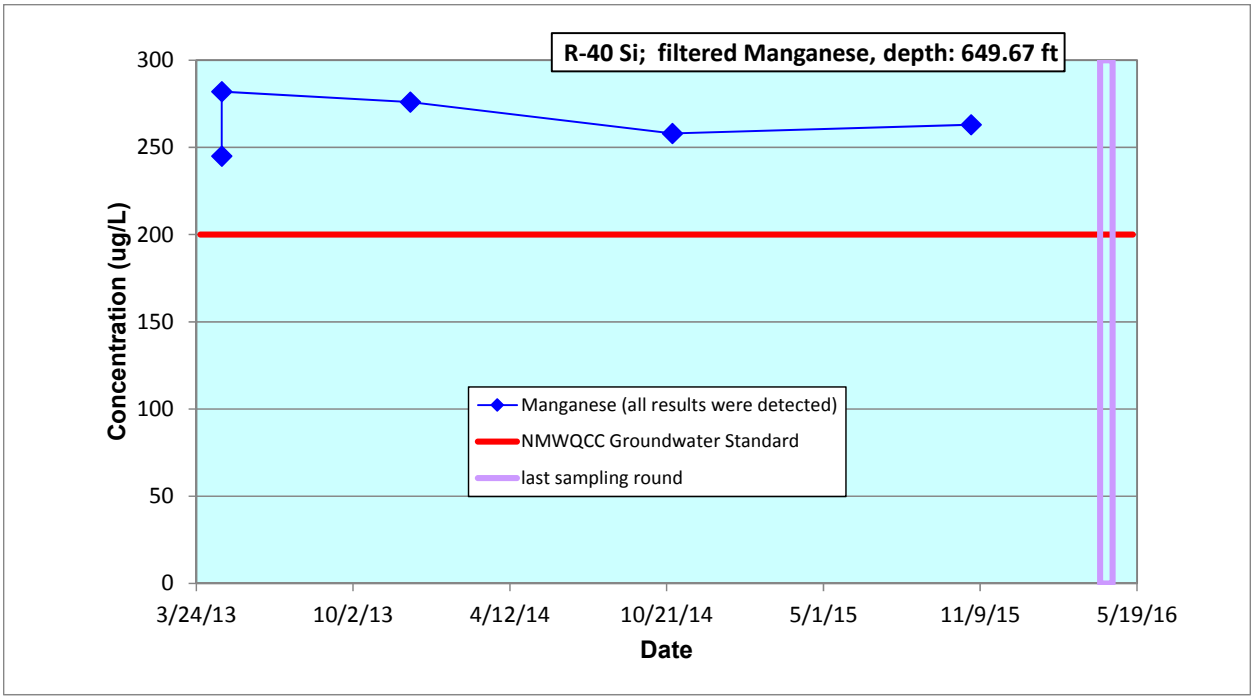
Analytical Chemistry Graphs of Screening-Level Exceedances

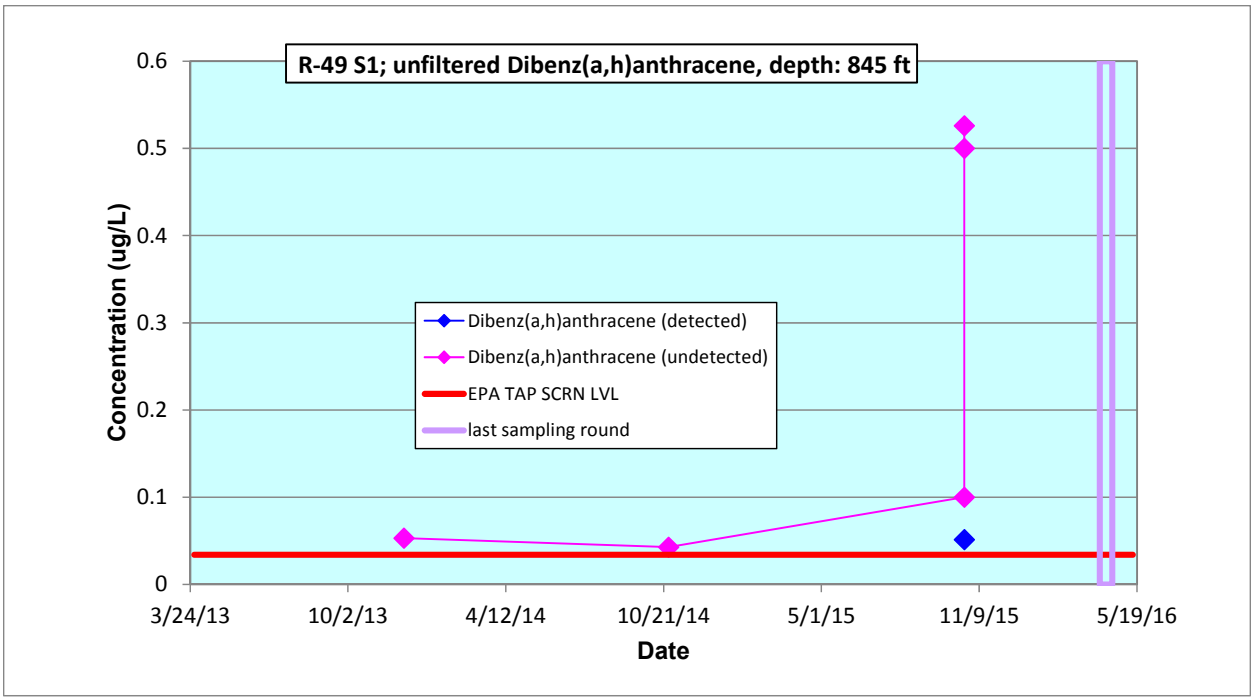
Note: The depths in the concentration plots are screen top depths (see Table 2.0-1).






03-B-13; unfiltered Trichloroethane[1,1,1-], depth: 21.5 ft
Concentration (ug/L)
120
100
80
60
40
20
0
3/24/13
10/2/13
4/12/14
10/21/14
5/1/15
11/9/15
5/19/16
Date
Trichloroethane[1,1,1-] (all results were detected)
NMWQCC Groundwater Standard
last sampling round


R-40 Si; filtered Manganese, depth: 649.67 ft
Concentration (ug/L)
300
250
200
150
100
50
0
3/24/13
10/2/13
4/12/14
10/21/14
5/1/15
11/9/15
5/19/16
Date
Manganese (all results were detected)
NMWQCC Groundwater Standard
last sampling round


R-49 S1; unfiltered Dibenz(a,h)anthracene, depth: 845 ft
Concentration (ug/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
Dibenz(a,h)anthracene (detected)
Dibenz(a,h)anthracene (undetected)
EPA TAP SCRN LVL
last sampling round
3/24/13
10/2/13
4/12/14
10/21/14
5/1/15
11/9/15
5/19/16
Date

Appendix F

Analytical Reports
(on CD included with this document)

CD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2016-1001	Organic	GELC[a]	CAPA-16-114728	04/06/16	R-52 S2	1107	1117
2016-1001	Organic	GELC	CAPA-16-114727	04/06/16	R-52 S1	1035.2	1055.7
2016-1002	Organic	GELC	CAPA-16-114732	04/06/16	R-54 S2	915	925
2016-1006	Rad[b]	ARSL[c]	CAPA-16-114731	04/06/16	R-54 S1	830	840
2016-1006	Rad	ARSL	CAPA-16-114732	04/06/16	R-54 S2	915	925
2016-1006	Rad	ARSL	CAPA-16-114725	04/05/16	R-51 S1	914.96	925.24
2016-1006	Rad	ARSL	CAPA-16-114726	04/05/16	R-51 S2	1031	1041
2016-1006	Rad	ARSL	CAPA-16-114727	04/06/16	R-52 S1	1035.2	1055.7
2016-1006	Rad	ARSL	CAPA-16-114668	04/05/16	R-51 S1	914.96	925.24
2016-1006	Rad	ARSL	CAPA-16-114728	04/06/16	R-52 S2	1107	1117
2016-1007	Rad	ARSL	CAMO-16-114795	04/04/16	R-38	821.2	831.2
2016-1007	Rad	ARSL	CAMO-16-114792	04/05/16	R-21	888.8	906.8
2016-1014	Organic	GELC	CAPA-16-114723	04/07/16	R-49 S1	845	855
2016-1014	Organic	GELC	CAPA-16-114724	04/07/16	R-49 S2	905.6	926.4
2016-1015	Organic	GELC	CAMO-16-114796	04/07/16	R-55 S1	860	880.6
2016-1015	Organic	GELC	CAMO-16-114797	04/07/16	R-55 S2	994.4	1015.4
2016-1018	Organic	GELC	CAMO-16-114794	04/08/16	R-37 S2	1026	1046.6
2016-1027	Organic	GELC	CAPA-16-114714	04/11/16	R-23i S1	400.3	420
2016-1027	Organic	GELC	CAPA-16-114715	04/11/16	R-23i S2	470.2	480.1
2016-1028	Organic	GELC	CAPA-16-114712	04/11/16	R-20 S2	1147.1	1154.7
2016-1028	Organic	GELC	CAPA-16-114722	04/11/16	R-41 S2	965.3	975
2016-1035	Organic	GELC	CAMO-16-114790	04/12/16	R-37 S1	929.3	950
2016-1035	Organic	GELC	CAMO-16-114793	04/12/16	R-37 S1	929.3	950
2016-1052	Organic	GELC	CAPA-16-114713	04/13/16	R-23	816	873.2
2016-1052	Organic	GELC	CAPA-16-114718	04/13/16	R-39	859	869
2016-1054	Organic	GELC	CAPA-16-114711	04/13/16	R-20 S1	904.6	912.2
2016-1058	Rad	ARSL	CAPA-16-114712	04/11/16	R-20 S2	1147.1	1154.7
2016-1058	Rad	ARSL	CAPA-16-114713	04/13/16	R-23	816	873.2
2016-1058	Rad	ARSL	CAPA-16-114722	04/11/16	R-41 S2	965.3	975
2016-1058	Rad	ARSL	CAPA-16-114723	04/07/16	R-49 S1	845	855
2016-1058	Rad	ARSL	CAPA-16-114715	04/11/16	R-23i S2	470.2	480.1
2016-1058	Rad	ARSL	CAPA-16-114724	04/07/16	R-49 S2	905.6	926.4
2016-1058	Rad	ARSL	CAPA-16-114718	04/13/16	R-39	859	869
2016-1058	Rad	ARSL	CAPA-16-114711	04/13/16	R-20 S1	904.6	912.2
2016-1059	Rad	ARSL	CAMO-16-114794	04/08/16	R-37 S2	1026	1046.6
2016-1059	Rad	ARSL	CAMO-16-114790	04/12/16	R-37 S1	929.3	950
2016-1059	Rad	ARSL	CAMO-16-114796	04/07/16	R-55 S1	860	880.6

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2016-1059	Rad	ARSL	CAMO-16-114793	04/12/16	R-37 S1	929.3	950
2016-1059	Rad	ARSL	CAMO-16-114797	04/07/16	R-55 S2	994.4	1015.4
2016-1059	Rad	ARSL	CAMO-16-114798	04/08/16	R-55i	510	531.1
2016-1066	Inorganic	GELC	CAPA-16-114742	04/14/16	PCI-2	512	522
2016-1066	Inorganic	GELC	CAPA-16-114708	04/14/16	PCI-2	512	522
2016-1066	Organic	GELC	CAPA-16-114708	04/14/16	PCI-2	512	522
2016-1066	Organic	GELC	CAPA-16-114733	04/14/16	R-56 S1	945	965.6
2016-1066	Organic	GELC	CAPA-16-114734	04/14/16	R-56 S2	1046.6	1067.1
2016-1066	Rad	GELC	CAPA-16-114708	04/14/16	PCI-2	512	522
2016-1071	Organic	GELC	CAPA-16-114720	04/15/16	R-40 S2	849.27	870
2016-1071	Organic	GELC	CAPA-16-114717	04/15/16	R-32 S1	867.5	875.2
2016-1078	Organic	GELC	CAPA-16-114716	04/18/16	R-23i S3	524	547
2016-1078	Organic	GELC	CAPA-16-114719	04/18/16	R-40 S1	751.59	785.06
2016-1083	Organic	GELC	CAPA-16-114735	04/19/16	R-57 S1	910	930.5
2016-1083	Organic	GELC	CAPA-16-114736	04/19/16	R-57 S2	971.5	992.1
2016-1084	Organic	GELC	CAPA-16-114729	04/19/16	R-53 S1	849.2	859.2
2016-1084	Organic	GELC	CAPA-16-114730	04/19/16	R-53 S2	959.7	980.2
2016-1103	Rad	ARSL	CAPA-16-114720	04/15/16	R-40 S2	849.27	870
2016-1103	Rad	ARSL	CAPA-16-114721	04/18/16	R-40 Si	649.67	669.02
2016-1103	Rad	ARSL	CAPA-16-114729	04/19/16	R-53 S1	849.2	859.2
2016-1103	Rad	ARSL	CAPA-16-114730	04/19/16	R-53 S2	959.7	980.2
2016-1103	Rad	ARSL	CAPA-16-114716	04/18/16	R-23i S3	524	547
2016-1103	Rad	ARSL	CAPA-16-114733	04/14/16	R-56 S1	945	965.6
2016-1103	Rad	ARSL	CAPA-16-114717	04/15/16	R-32 S1	867.5	875.2
2016-1103	Rad	ARSL	CAPA-16-114734	04/14/16	R-56 S2	1046.6	1067.1
2016-1103	Rad	ARSL	CAPA-16-114735	04/19/16	R-57 S1	910	930.5
2016-1103	Rad	ARSL	CAPA-16-114719	04/18/16	R-40 S1	751.59	785.06
2016-1103	Rad	ARSL	CAPA-16-114736	04/19/16	R-57 S2	971.5	992.1
2016-577	Organic	GELC	CAMO-16-109709	01/05/16	R-55 S1	860	880.6
2016-578	Organic	GELC	CAPA-16-109803	01/05/16	R-57 S1	910	930.5
2016-586	Organic	GELC	CAMO-16-109708	01/06/16	R-38	821.2	831.2
2016-596	Organic	GELC	CAMO-16-109705	01/06/16	R-21	888.8	906.8
2016-604	Organic	GELC	CAPA-16-109800	01/07/16	R-52 S1	1035.2	1055.7
2016-605	Organic	GELC	CAPA-16-109799	01/07/16	R-51 S1	914.96	925.24
2016-610	Organic	GELC	CAPA-16-109801	01/08/16	R-53 S1	849.2	859.2
2016-610	Organic	GELC	CAPA-16-109795	01/08/16	R-32 S1	867.5	875.2
2016-614	Organic	GELC	CAPA-16-109794	01/11/16	R-23	816	873.2
2016-615	Organic	GELC	CAPA-16-109796	01/11/16	R-39	859	869

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2016-618	Organic	GELC	CAPA-16-109798	01/12/16	R-49 S1	845	855
2016-619	Organic	GELC	CAMO-16-109699	01/13/16	R-37 S1	929.3	950
2016-619	Organic	GELC	CAMO-16-109706	01/13/16	R-37 S1	929.3	950
2016-619	Organic	GELC	CAMO-16-109707	01/13/16	R-37 S2	1026	1046.6
2016-622	Organic	GELC	CAPA-16-109802	01/13/16	R-56 S1	945	965.6
2016-623	Rad	ARSL	CAMO-16-109705	01/06/16	R-21	888.8	906.8
2016-623	Rad	ARSL	CAMO-16-109706	01/13/16	R-37 S1	929.3	950
2016-623	Rad	ARSL	CAMO-16-109707	01/13/16	R-37 S2	1026	1046.6
2016-623	Rad	ARSL	CAMO-16-109708	01/06/16	R-38	821.2	831.2
2016-623	Rad	ARSL	CAMO-16-109709	01/05/16	R-55 S1	860	880.6
2016-623	Rad	ARSL	CAMO-16-109699	01/13/16	R-37 S1	929.3	950
2016-624	Rad	ARSL	CAPA-16-109798	01/12/16	R-49 S1	845	855
2016-624	Rad	ARSL	CAPA-16-109799	01/07/16	R-51 S1	914.96	925.24
2016-624	Rad	ARSL	CAPA-16-109800	01/07/16	R-52 S1	1035.2	1055.7
2016-624	Rad	ARSL	CAPA-16-109801	01/08/16	R-53 S1	849.2	859.2
2016-624	Rad	ARSL	CAPA-16-109794	01/11/16	R-23	816	873.2
2016-624	Rad	ARSL	CAPA-16-109802	01/13/16	R-56 S1	945	965.6
2016-624	Rad	ARSL	CAPA-16-109795	01/08/16	R-32 S1	867.5	875.2
2016-624	Rad	ARSL	CAPA-16-109796	01/11/16	R-39	859	869
2016-624	Rad	ARSL	CAPA-16-109803	01/05/16	R-57 S1	910	930.5
2016-628	Organic	GELC	CAPA-16-109783	01/14/16	R-41 S2	965.3	975
2016-628	Organic	GELC	CAPA-16-109797	01/14/16	R-41 S2	965.3	975
2016-642	Rad	ARSL	CAPA-16-109797	01/14/16	R-41 S2	965.3	975
2016-642	Rad	ARSL	CAPA-16-109783	01/14/16	R-41 S2	965.3	975
2016-985	Inorganic	GELC	CAPA-16-114738	04/04/16	03-B-13	21.5	31.5
2016-985	Inorganic	GELC	CAPA-16-114704	04/04/16	03-B-13	21.5	31.5
2016-985	Organic	GELC	CAPA-16-114704	04/04/16	03-B-13	21.5	31.5
2016-985	Rad	GELC	CAPA-16-114704	04/04/16	03-B-13	21.5	31.5
2016-986	Organic	GELC	CAMO-16-114795	04/04/16	R-38	821.2	831.2
2016-991	Organic	GELC	CAPA-16-114668	04/05/16	R-51 S1	914.96	925.24
2016-991	Organic	GELC	CAPA-16-114725	04/05/16	R-51 S1	914.96	925.24
2016-991	Organic	GELC	CAPA-16-114726	04/05/16	R-51 S2	1031	1041
2016-992	Organic	GELC	CAMO-16-114792	04/05/16	R-21	888.8	906.8

[a] GELC = General Engineering Laboratories, Inc., Charleston, SC.

[b] Rad = Radiochemistry (not gamma).

[c] ARSL = American Radiation Services, Inc.