

Rocky Flats Site, Colorado

**Surface Water Configuration
Adaptive Management Plan
Annual Report**

Calendar Year 2019

February 2020



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

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Abbreviations

Am	americium
AMP	Adaptive Management Plan
AOC	area of concern
cfs	cubic feet per second
COU	Central Operable Unit
CY	calendar year
DOE	U.S. Department of Energy
FONSI	Finding of No Significant Impact
µg/L	micrograms per liter
mg/L	milligrams per liter
N	nitrogen
pCi/L	picocuries per liter
POC	point of compliance
POE	point of evaluation
Pu	plutonium
RFLMA	<i>Rocky Flats Legacy Management Agreement</i>
SID	South Interceptor Ditch
SPIN	SPPTS influent sampling location
SPOUT	SPPTS effluent sampling location
SPPTS	Solar Ponds Plume Treatment System
TCE	trichloroethene
TSS	total suspended solids

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1.0 Introduction

The proposed action assessed in the *Rocky Flats Site, Colorado, Surface Water Configuration Environmental Assessment* (DOE 2011) and the resulting Finding of No Significant Impact (FONSI) is to breach the remaining retention pond dams at the Rocky Flats Site, Colorado, (Site) to allow surface water flow to return to approximately the same conditions that were present before construction of the retention ponds. From extensive water quality monitoring data and a thorough environmental review, and as stated in the FONSI, the U.S. Department of Energy (DOE) Office of Legacy Management has determined that the proposed action does not present a significant impact on the environment under the National Environmental Policy Act evaluation criteria.

Some members of the public have commented that additional information must be collected before DOE implements the final steps of the proposed action. The additional information will help reduce uncertainty as to whether completion of the proposed action will adversely impact the quality of water flowing from the Site and into downstream communities. In response to the requests, DOE worked with neighboring community representatives and other interested stakeholders to develop and implement an Adaptive Management Plan (DOE 2019) (AMP) to provide additional information. The AMP group is composed of these representatives and stakeholders. The resulting AMP reflects DOE's long-term commitment to collect this additional information.

The AMP provides for a monitoring and data evaluation program to assist in deciding whether to implement the final steps of the proposed action (which includes breaching the terminal dams during the planned time frame of 2018–2020) or to delay completion of the proposed action to gather additional information for evaluation. The terminal dams will be operated in a flow-through condition during the period leading up to the completion of the proposed action, which will provide data similar to what can be expected after the breach. In addition to the AMP monitoring program, the AMP identifies certain performance indicators that DOE will consider in deciding whether to adjust the time frame for completing the proposed action.

This AMP annual report for calendar year (CY) 2019 is provided in accordance with the reporting requirements described in Section 5.0 of the AMP. Table 12, at the end of this report, includes all validated analytical data available as of February 1, 2020, including any validated data that had not been tabulated in previous AMP reports.

In addition, to make data exchange as timely as possible, the monitoring summary sections below include all analytical data available as of February 1, 2020, including unvalidated analytical data (which are preliminary and subject to revision). Therefore, the evaluations in the monitoring summary sections that follow are not limited to the validated 2019 data tabulated in Table 12. Instead, the evaluations also consider any available unvalidated data, if appropriate.

The following monitoring objectives are addressed in this report:

- Predischarge monitoring
- Targeted groundwater monitoring
- Monitoring to evaluate flow-through operations at terminal ponds A-4, B-5, and C-2

- Storm-event monitoring
- Continuous flow-paced composite sampling to evaluate uranium transport
- Grab sampling for uranium in North and South Walnut Creeks
- Grab sampling for nitrate + nitrite as nitrogen in Walnut Creek

In this report, “plutonium” or “Pu” refers to plutonium-239,240 or $^{239}\text{Pu} + ^{240}\text{Pu}$; “americium” or “Am” refers to americium-241 or ^{241}Am ; and “nitrate” refers to nitrate + nitrite as nitrogen (N). In addition, the terms “activity” and “concentration” are used interchangeably for both plutonium and americium to represent the amount of radioactivity or radioactive material per unit of water (i.e., picocuries per liter [pCi/L]).

2.0 AMP Highlights: Fourth Quarter CY 2019

- During the quarter, 45 samples were collected in support of AMP monitoring objectives.
- Two informal emails were transmitted to AMP participants providing notification that composite samples had been retrieved from the points of compliance (POCs): WOMPOC (Woman Creek at the Central Operable Unit [COU] boundary) and WALPOC (Walnut Creek at the COU boundary).
- Two informal emails were transmitted to AMP participants providing notification that recent analytical data from the POCs had been validated and would soon be available through the Geospatial Environmental Mapping System (GEMS).

3.0 Water Quality Monitoring

AMP monitoring objectives, locations, and sampling criteria are itemized in Table 2 of the AMP. Additional field implementation protocols for the AMP monitoring objectives can be found in *Additional Field Implementation Detail for Selected Monitoring Objectives at the Rocky Flats Site, Colorado* (DOE 2018).

3.1 PredischARGE Monitoring

This monitoring objective is intended to evaluate whether pond water from Ponds A-4, B-5, or C-2 would be expected to meet water quality standards at downstream monitoring locations before opening a valve to initiate a period of flow-through discharge. PredischARGE samples would be collected at sampling locations A4 POND on North Walnut Creek, B5 POND on South Walnut Creek, and C2 POND on Woman Creek before opening a valve. These locations are shown in Figure 1.

Since Ponds A-4, B-5, and C-2 were operated in flow-through mode for all of CY 2019 (i.e., the valves were open throughout the year), no predischARGE samples were collected.

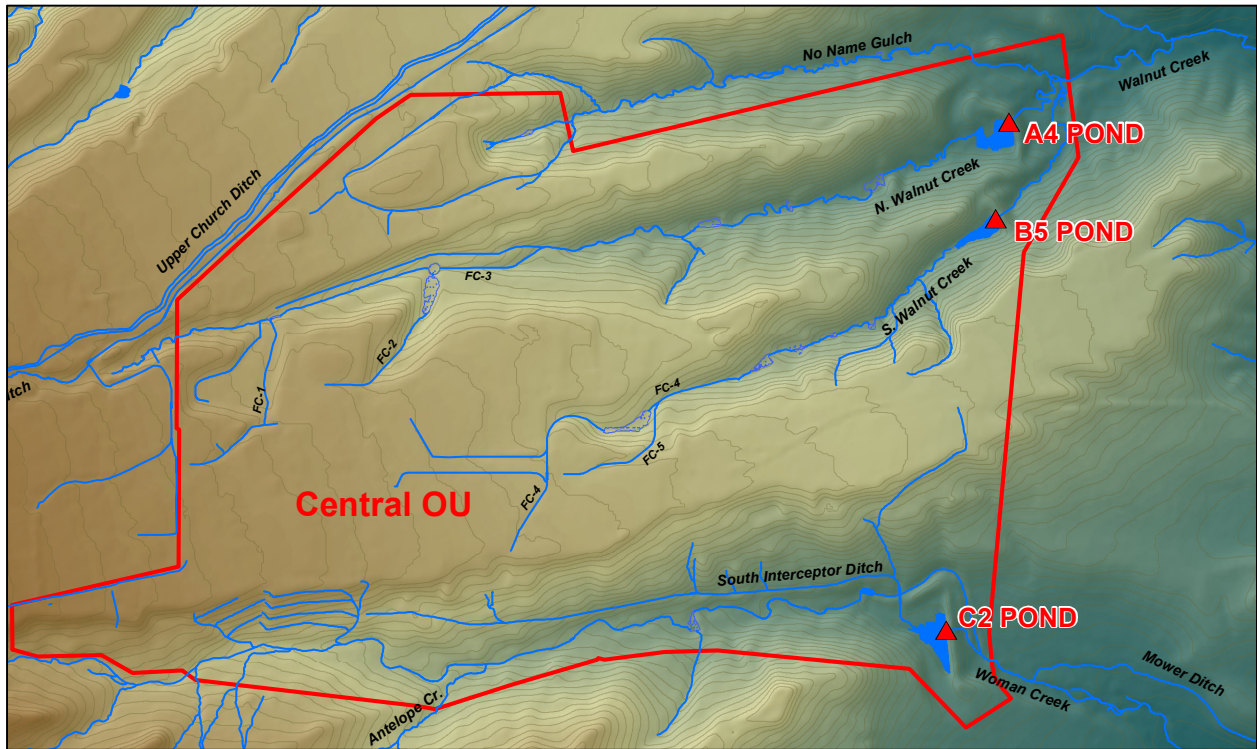


Figure 1. Rocky Flats Site Predischarge Monitoring Locations

3.2 Targeted Groundwater Monitoring

The AMP-targeted groundwater monitoring wells (Figure 2) are the same as the *Rocky Flats Legacy Management Agreement* (RFLMA) area of concern (AOC) wells. They are in a drainage and downgradient of a contaminant plume or group of contaminant plumes. Water quality data are collected to determine whether plumes are discharging to surface water. These AOC wells are sampled semiannually in the second and fourth calendar quarters.

Data from these wells are evaluated in the RFLMA-required annual report (DOE forthcoming),¹ according to the flowchart in Figure 7 in Attachment 2 to the RFLMA (DOE 2007). Analytical data undergo preliminary evaluation as data become available; this is necessary because of the strict timeline attached to “reportable conditions” for AOC wells. In accordance with and as defined in the RFLMA, if the data are confirmed to be valid and meet the requirements of a reportable condition, the reporting process under RFLMA is initiated. A reportable condition for trichloroethene (TCE) in groundwater was triggered in 2018 at AOC well 10304, which is in the Woman Creek drainage. The concentration of TCE in the sample collected from AOC well 10304 during the second quarter of 2019 also exceeded the RFLMA standard, extending that reportable condition. However, the TCE concentration in the fourth-quarter sample did not exceed the RFLMA standard, terminating this reportable condition.

¹ At the time of publication of this document, it was anticipated that the *Annual Report of Site Surveillance and Maintenance Activities at the Rocky Flats Site, Colorado, Calendar Year 2019* (DOE forthcoming) would be published in April 2020.

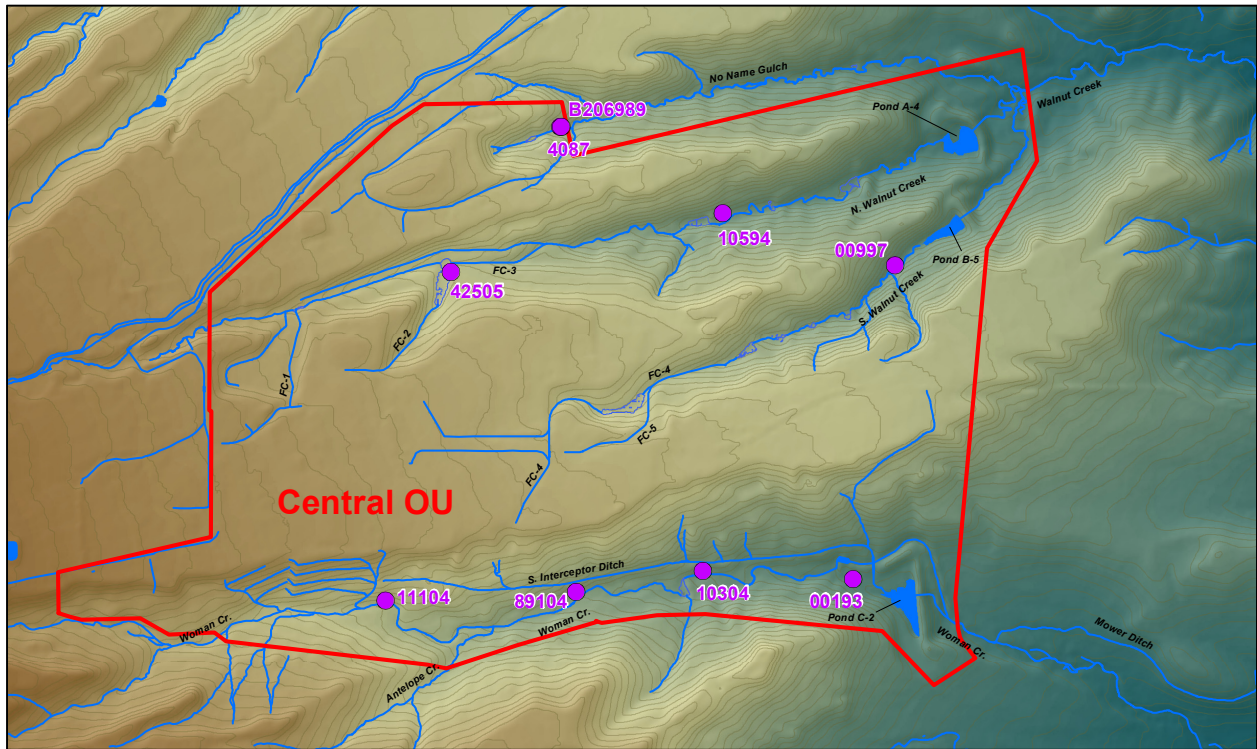
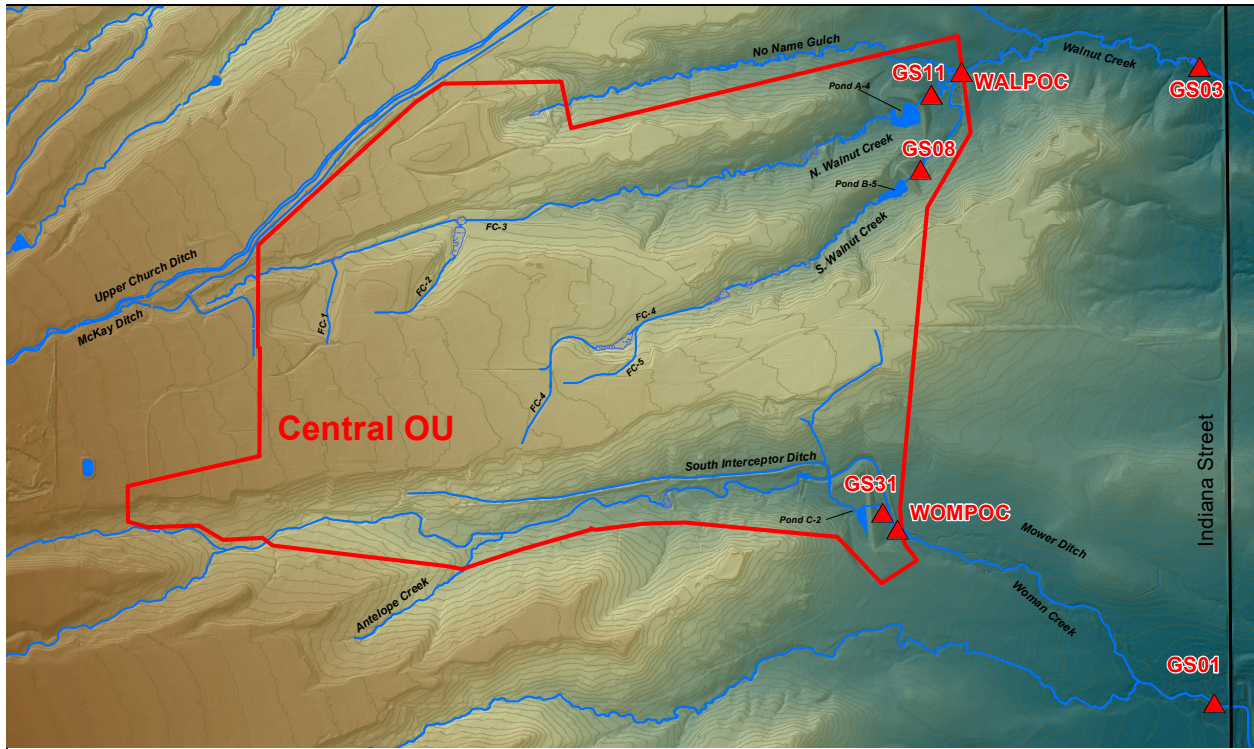


Figure 2. Targeted Groundwater Monitoring Locations

3.3 Monitoring to Evaluate Flow-Through Operations at Terminal Ponds A-4, B-5, and C-2

This objective involves collecting water quality data during flow-through operations to simulate postbreach conditions to determine if water leaving the COU will meet water quality standards after the terminal dams are breached. Samples for plutonium, americium, and uranium analyses are collected as continuous flow-paced composites during all flow conditions; grab samples are collected for nitrate analyses. The specific locations are shown in Figure 3.



Monitoring at GS01 and GS03 was discontinued on October 1, 2015.

Figure 3. Flow-Through Operations Monitoring Locations

The two locations at the COU boundary, WALPOC and WOMPOC, became POCs on September 28 and September 9, 2011, respectively.² At that time, locations GS03 and GS01 were also being operated as POCs and continued to be operated as POCs until September 28, 2013, and September 9, 2013, respectively. Following those dates and at the request of the AMP participants, GS03 and GS01 were operated as AMP monitoring locations for 2 years. Monitoring at both locations was discontinued on October 1, 2015.

Flow-through operation of Ponds A-4 and B-5 began on September 12, 2011; that was also the first day of flow at WALPOC. Flow-through operation of Pond C-2 began on November 7, 2011. WOMPOC first began measuring flow from Woman Creek on October 14, 2011.

During CY 2019, Pond A-4 (GS11) discharged continuously from April 12 through July 22, 2019; GS11 was dry the remainder of the year. Pond B-5 (GS08) discharged continuously from March 20 through July 17, 2019, and discharged part of the day on July 23, 2019; GS08 was dry the remainder of the year. As of February 1, 2020, both GS08 and GS11 are flowing.

Pond C-2 (GS31) discharged intermittently February through July 2019 and was then dry until December 30, 2019. As of February 1, 2020, GS31 is flowing.

² Although WALPOC was officially designated as a RFLMA POC on September 28, 2011, operational testing and sampling began on September 9, 2011. Data collected during operational testing is used in the evaluation in this section.

Table 1 summarizes the flow and sampling conditions for each location as of February 2020.

Table 1. Flow and Sampling Detail for Flow-Through Monitoring Locations

Location	Latest Flow ^a	Latest Available Composite Sample Results	Current Composite Sample Start Date (in progress)
GS08	Currently flowing	7/5/2019–7/19/2019	1/28/2020
GS11	Currently flowing	6/10/2019–7/2/2019	7/2/2019
WALPOC	Currently flowing	7/5/2019–7/19/2019 ^b	1/13/2020
GS31	Currently flowing	6/26/2019–7/24/2019	1/2/2020
WOMPOC	Currently flowing	12/9/2019–1/2/2020	1/28/2020

Notes:

^a As of February 1, 2020.

^b Due to low flows in Walnut Creek, the composite sample for the period 7/19/2019 to 1/13/2020 did not contain enough water to perform the laboratory analysis for plutonium, americium, and uranium.

3.3.1 Walnut Creek Evaluation

Table 2 presents long-term volume-weighted averages in Walnut Creek for the postclosure batch release period³ (October 2005 to September 2011) and the period since flow-through pond operations began (September 2011 to the present). Figure 4 through Figure 11 present the 30-day and 12-month rolling averages for each location, analyte, and time period.^{4,5}

Compared to batch operations, as expected the plots show increased variability and concentration for all analytes at both outlet locations after initiation of flow-through operations. Concentrations for Pu and Am remain well below the 0.15 pCi/L water quality standard at all locations except GS08.⁶

During batch operations, water was accumulated in the ponds for several months, effectively mixing water of differing concentrations into a homogeneous volume. Therefore, flow-through 30-day averages show increased day-to-day variability since water is no longer batched and

³ Prior to the ponds being operated in a flow-through mode (the outlet valves are continuously left open) in September 2011, the ponds were operated in “batch release” mode. Under batch release mode, water was stored in each pond (the outlet valve was closed) generally over a period of several months until the pond was partially filled (normally to 40–60% of capacity). At that point, the outlet valve was temporarily opened (1–3 weeks) to discharge the stored water and lower the pond level to 10% of capacity, at which point the outlet valve was closed to start another batch cycle.

⁴ The RFLMA standards shown on these plots are for reference only. The RFLMA-required evaluation is location specific (i.e., at particular POCs and POEs) and is not part of this AMP report. Evaluation of sampling results as required by the RFLMA is routinely presented in other reports in accordance with the RFLMA reporting requirements.

⁵ Due to the interruptions in automated sampling and the corresponding lack of analytical data for some periods during the September 2013 flood, for comparison purposes, the start of the high runoff (which began late in the day on September 11, 2013) through its end on September 13, 2013, is not included in the evaluation in this section. Additionally, some data are estimated to enable the comparison herein; under RFLMA data evaluation protocols, these estimated data would not be included.

⁶ The short term increase at GS08 is the result of two consecutive samples collected in 2015.

mixed before discharge. Conversely, flow-through 12-month rolling averages show month-to-month variability more comparable to that of batch operations.

Table 2. Volume-Weighted Averages for Walnut Creek Flow-Through Monitoring Locations

Walnut Creek: October 2005–September 2011 (Batch Release)

	Location Code	Uranium (µg/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)		NO ₃ +NO ₂ as N (mg/L)	
		Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS08 / GS11	8.8 / 7.6	33 / 36	0.004 / 0.004	33 / 36	0.003 / 0.003	33 / 36	2.79 [GS11 only]	36
Downstream	GS03	4.9	68	0.006	68	0.004	68	0.94	43

Walnut Creek: September 2011–Present (Flow-Through)

	Location Code	Uranium (µg/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)		NO ₃ +NO ₂ as N (mg/L)	
		Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS08 / GS11	9.6 / 10.3	76 / 60	0.024 / 0.021	76 / 60	0.015 / 0.012	76 / 60	5.5 [GS11 only]	58
↓	WALPOC	9.8	99	0.017	99	0.011	99	2.52	99
Downstream	GS03	5.6	44	0.016	43	0.011	43	2.04	40

Notes:

Sample counts vary because composite sampling periods vary with water availability.

Summary includes all data available as of February 1, 2020; some recent data are not validated (i.e., are preliminary and subject to revision).

No Name Gulch is a tributary to Walnut Creek, just upstream of WALPOC; any water that flows in No Name Gulch and reaches Walnut Creek could affect water quality at WALPOC.

Monitoring at GS03 was discontinued on October 1, 2015.

Abbreviations: µg/L = micrograms per liter; mg/L = milligrams per liter; N = nitrogen; NO₂ = nitrite; NO₃ = nitrate

At GS08, two composite samples (7/6/2015–8/31/2015 and 8/31/2015–10/12/2015) showed higher than normal Pu and Am concentrations (Figure 4 through Figure 7). While concentrations at these levels have not been frequently observed since closure, similar concentrations were observed several times during the closure process. Pu and Am concentrations at GS08 have remained at more normal levels since October 2015.

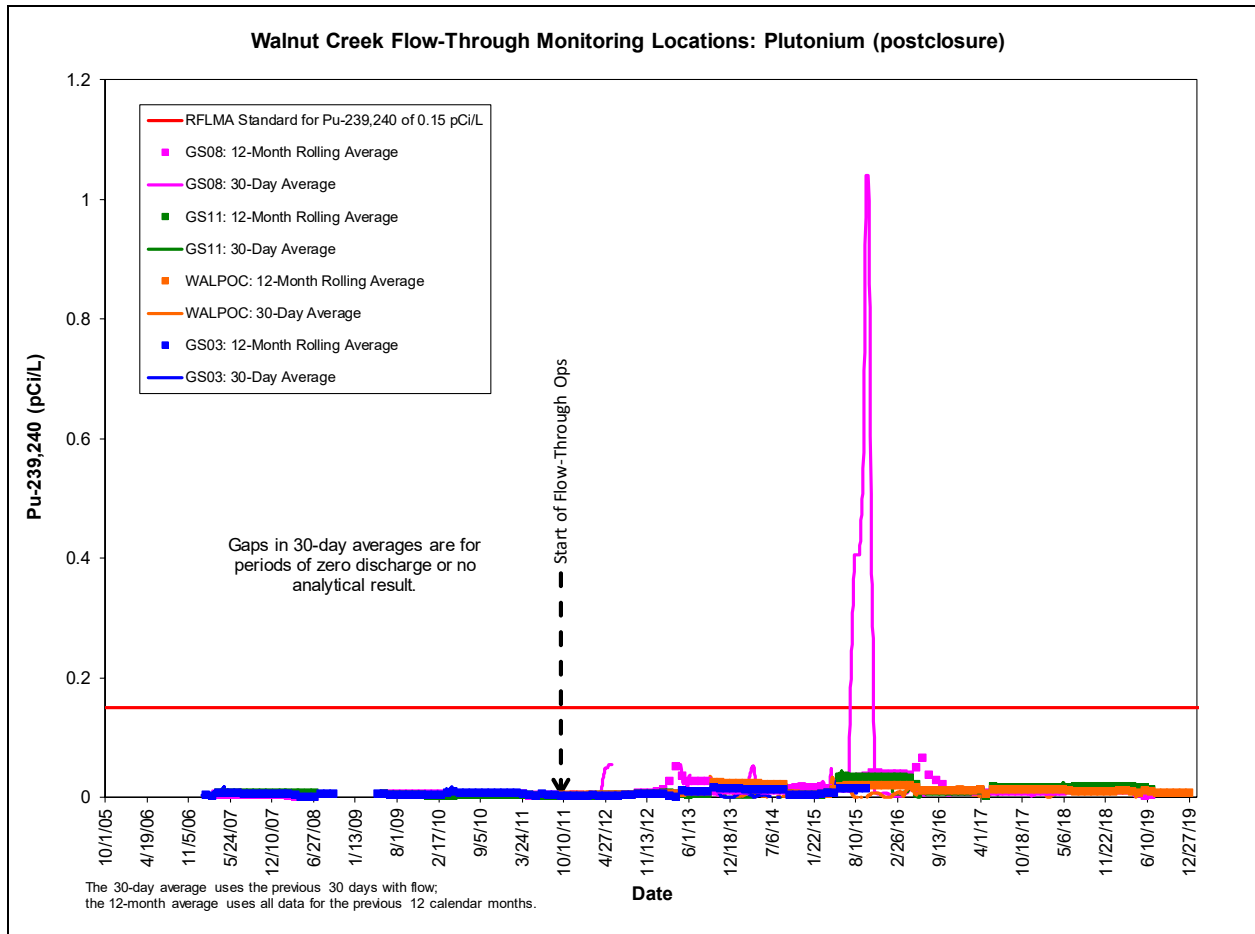
Uranium and nitrate concentrations are variable in Walnut Creek due to the seasonal variation in groundwater seepage and direct runoff from storm events. At the locations listed in Table 1, normally more than half the annual flow is measured from March through May. Runoff during this period reduces the proportion of groundwater in streamflows. Since uranium and nitrate at the Site are generally associated with groundwater seepage to the creeks, the normal spring runoff reduces uranium and nitrate concentrations in streamflow.

Uranium and nitrate increases were also noted for several months following the September 2013 flood event. This extreme event resulted in extensive stream bed scour and increased groundwater recharge. This recharge subsequently increased the volumes of groundwater reaching the creeks from seepage, thereby sustaining high base flow for an extended period. An extensive geochemistry study was conducted to examine the transport mechanisms associated with uranium and nitrate at the Site and the effects of the September 2013 flood. The report can be found at:

https://www.lm.doe.gov/Rocky_Flats/RFS_Evaluation_of_Water_Quality_Variability_April_2015.pdf. A 2018 update to this report can also be found at the Rocky Flats website (https://www.lm.doe.gov/land/sites/co/rocky_flats/rocky.htm).

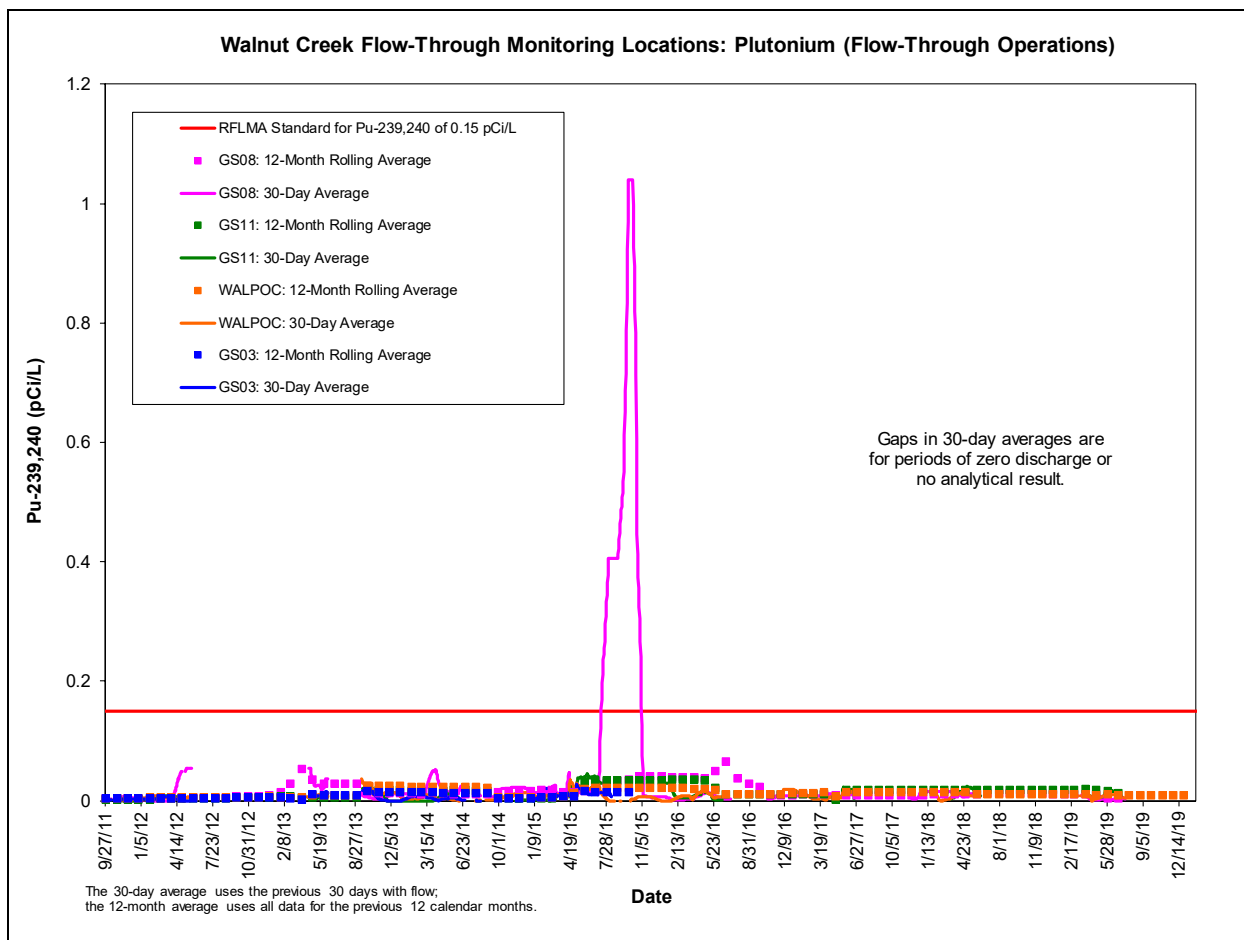
Concentrations of both uranium and nitrate in surface water also generally increase in the winter months. Because both constituents are associated with groundwater sources, uranium and nitrate concentrations increase when there is little surface runoff and groundwater makes up a larger

portion of the streamflow. Also, natural biological activity that consumes nitrate slows down in the lower temperature winter months, increasing concentrations. Since geochemical conditions are naturally more oxidizing in the winter, uranium can become more mobile and concentrations can increase. These mechanisms were investigated in depth and described in the geochemistry study mentioned above.



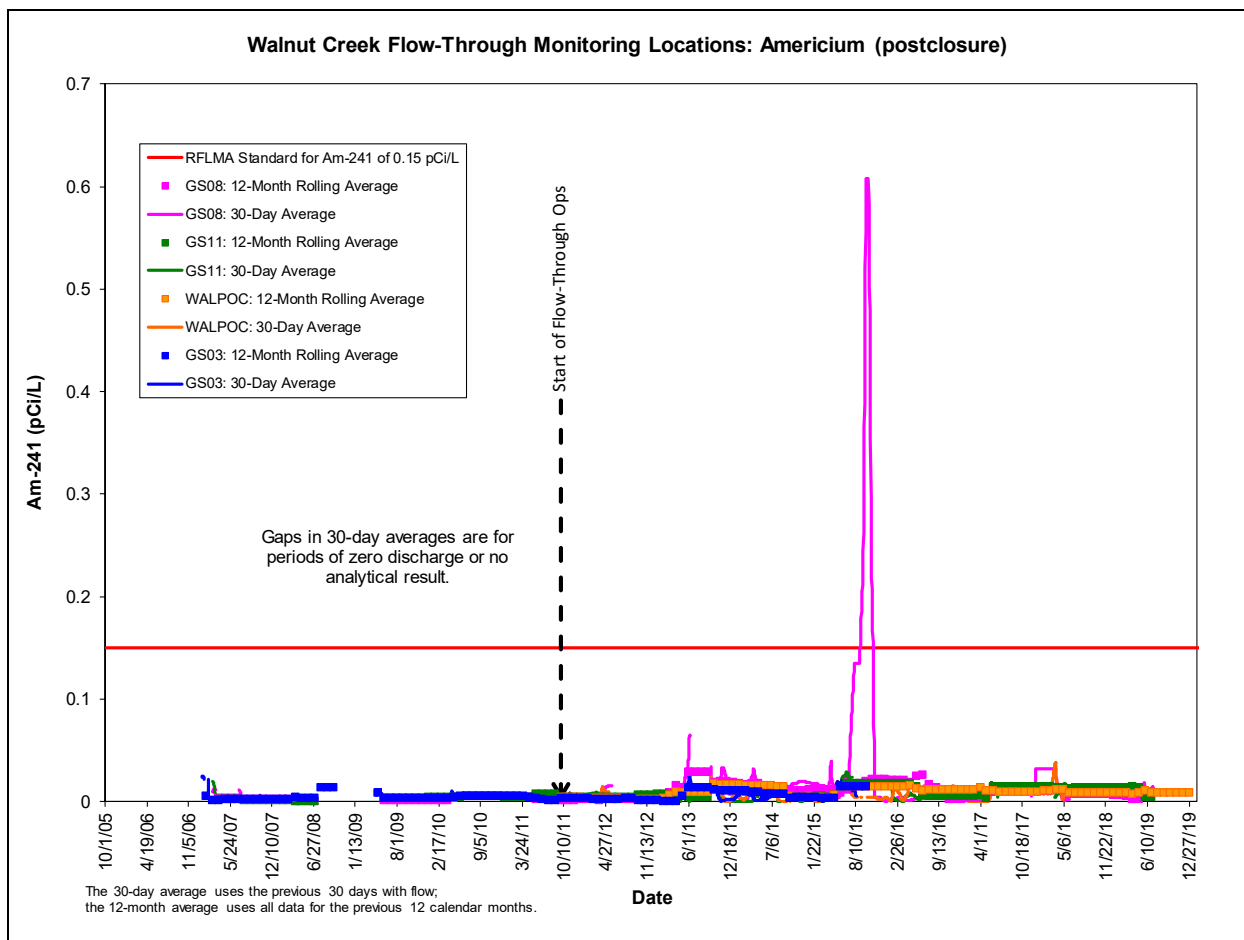
Note:
Monitoring at GS03 was discontinued on October 1, 2015.

Figure 4. Running Plutonium Averages at Walnut Creek Flow-Through Locations: Postclosure Period



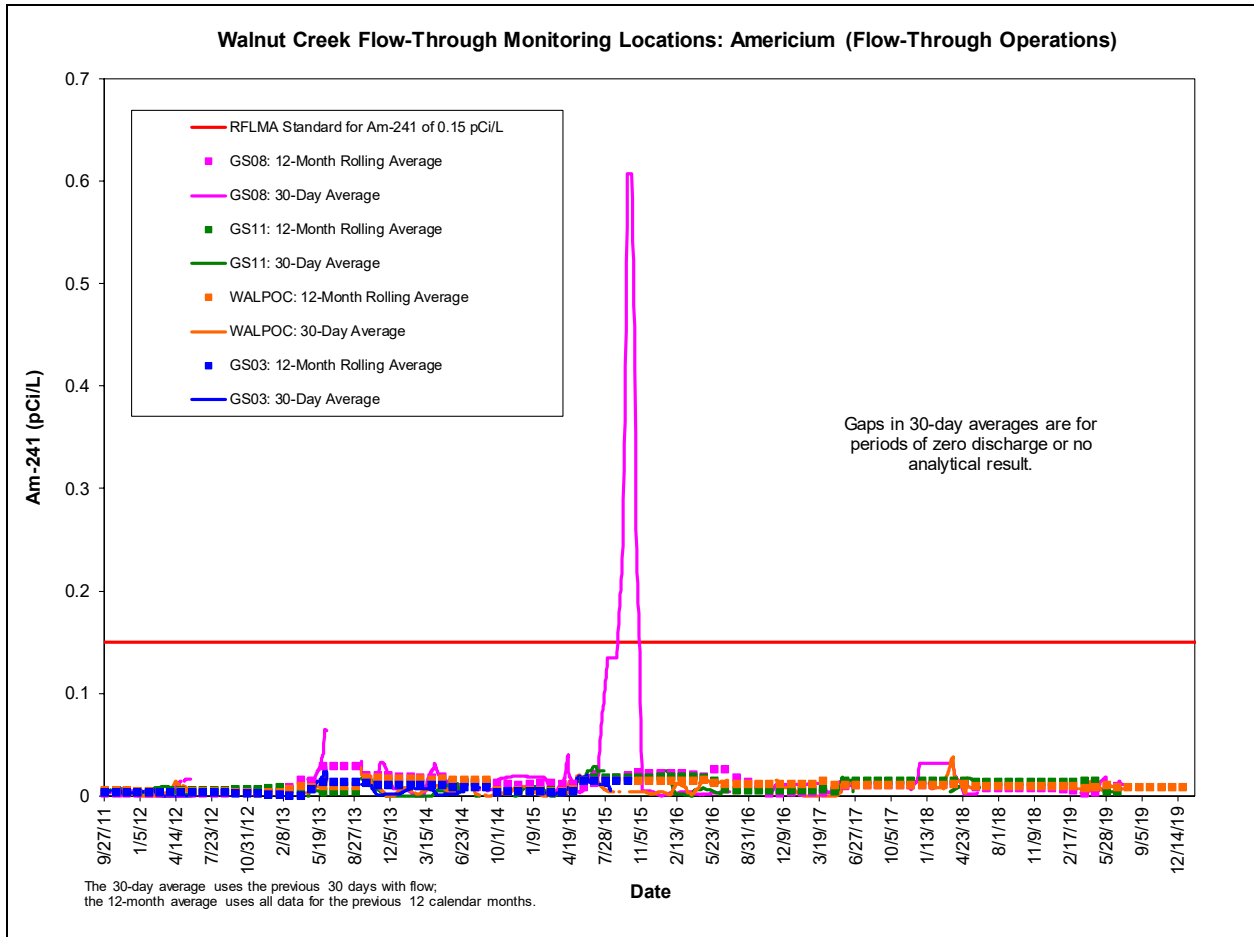
Note:
Monitoring at GS03 was discontinued on October 1, 2015.

Figure 5. Running Plutonium Averages at Walnut Creek Flow-Through Locations: Flow-Through Period



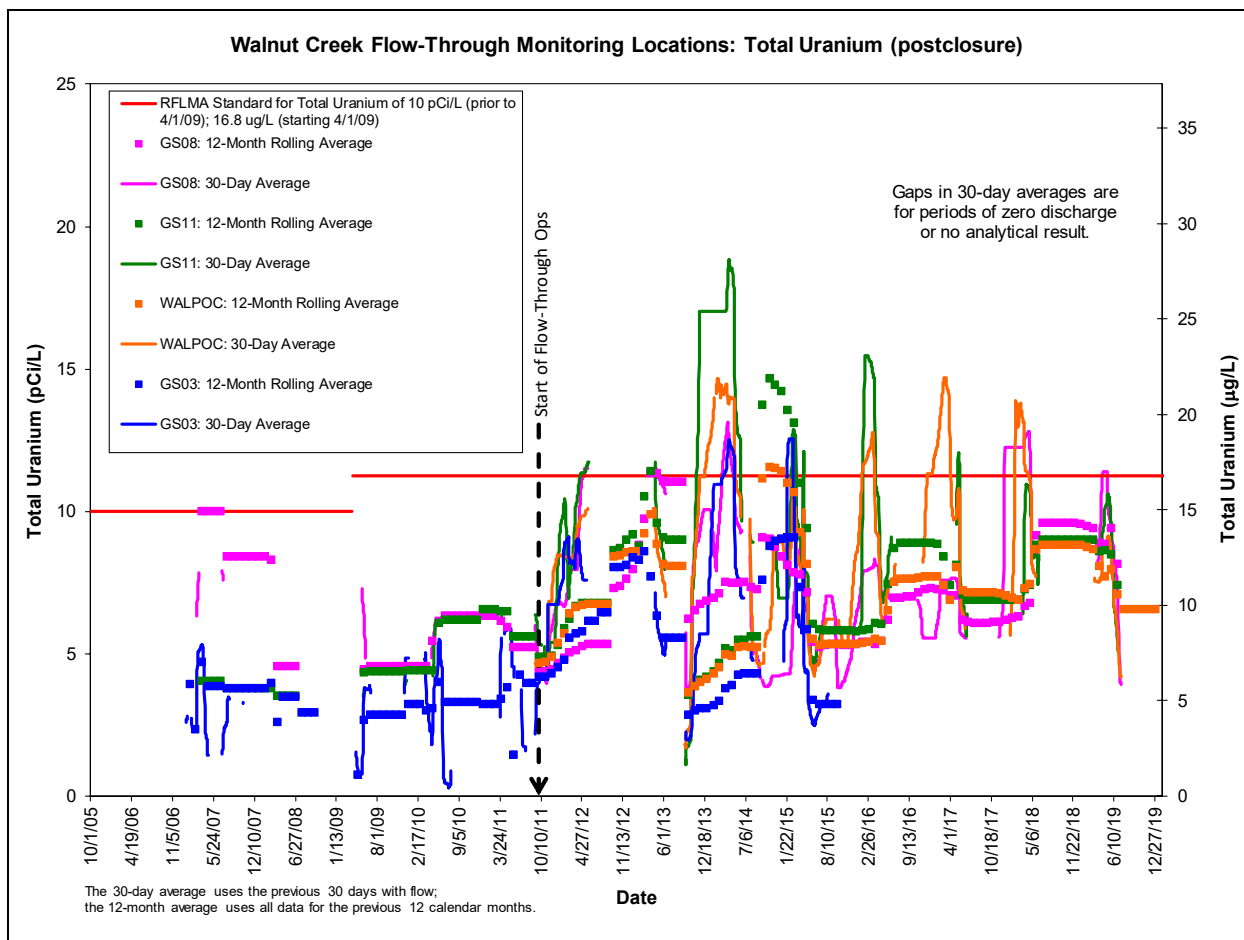
Note:
Monitoring at GS03 was discontinued on October 1, 2015.

Figure 6. Running Americium Averages at Walnut Creek Flow-Through Locations: Postclosure Period



Note:
Monitoring at GS03 was discontinued on October 1, 2015.

Figure 7. Running Americium Averages at Walnut Creek Flow-Through Locations: Flow-Through Period



Notes:

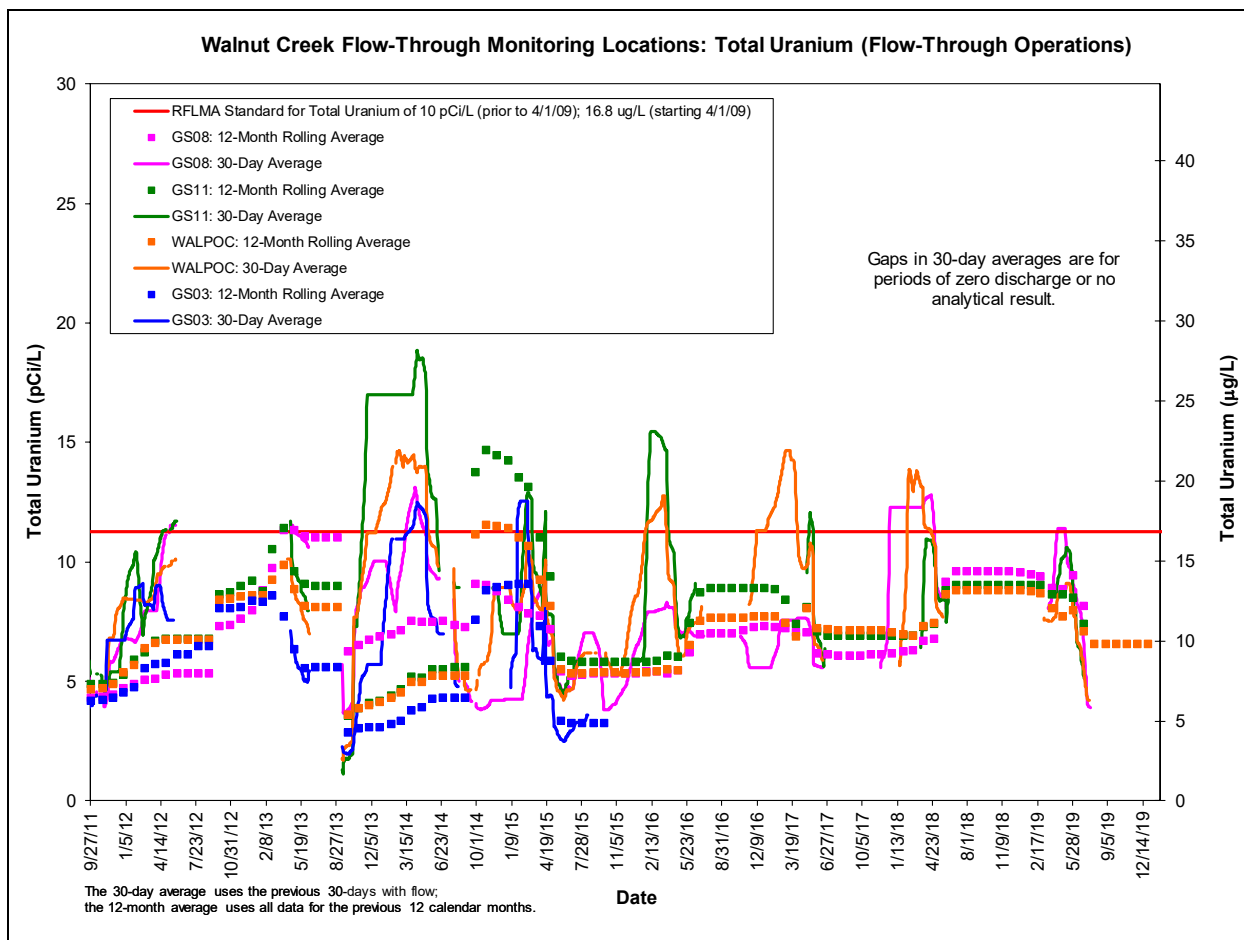
Monitoring at GS03 was discontinued on October 1, 2015.

After April 1, 2009, the µg/L results are shown as pCi/L using the conversion 1 µg/L = 0.67 pCi/L.

Abbreviation:

µg/L = micrograms per liter

Figure 8. Running Uranium Averages at Walnut Creek Flow-Through Locations: Postclosure Period



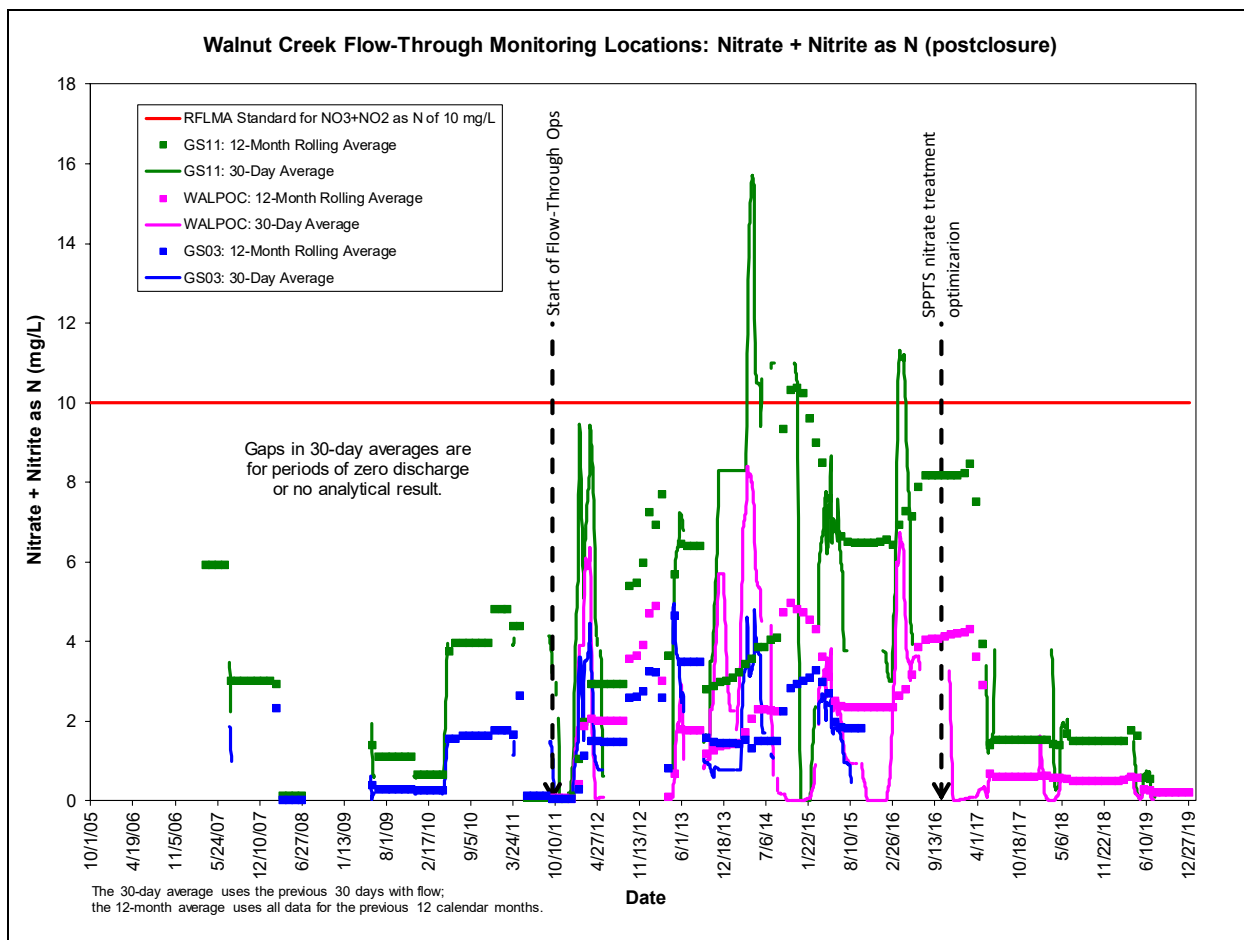
Notes:

Monitoring at GS03 was discontinued on October 1, 2015.
 After April 1, 2009, the µg/L results are shown as pCi/L using the conversion 1 µg/L = 0.67 pCi/L.

Abbreviation:

µg/L = micrograms per liter

Figure 9. Running Uranium Averages at Walnut Creek Flow-Through Locations: Flow-Through Period



Note:

Monitoring at GS03 was discontinued on October 1, 2015.

Abbreviations:

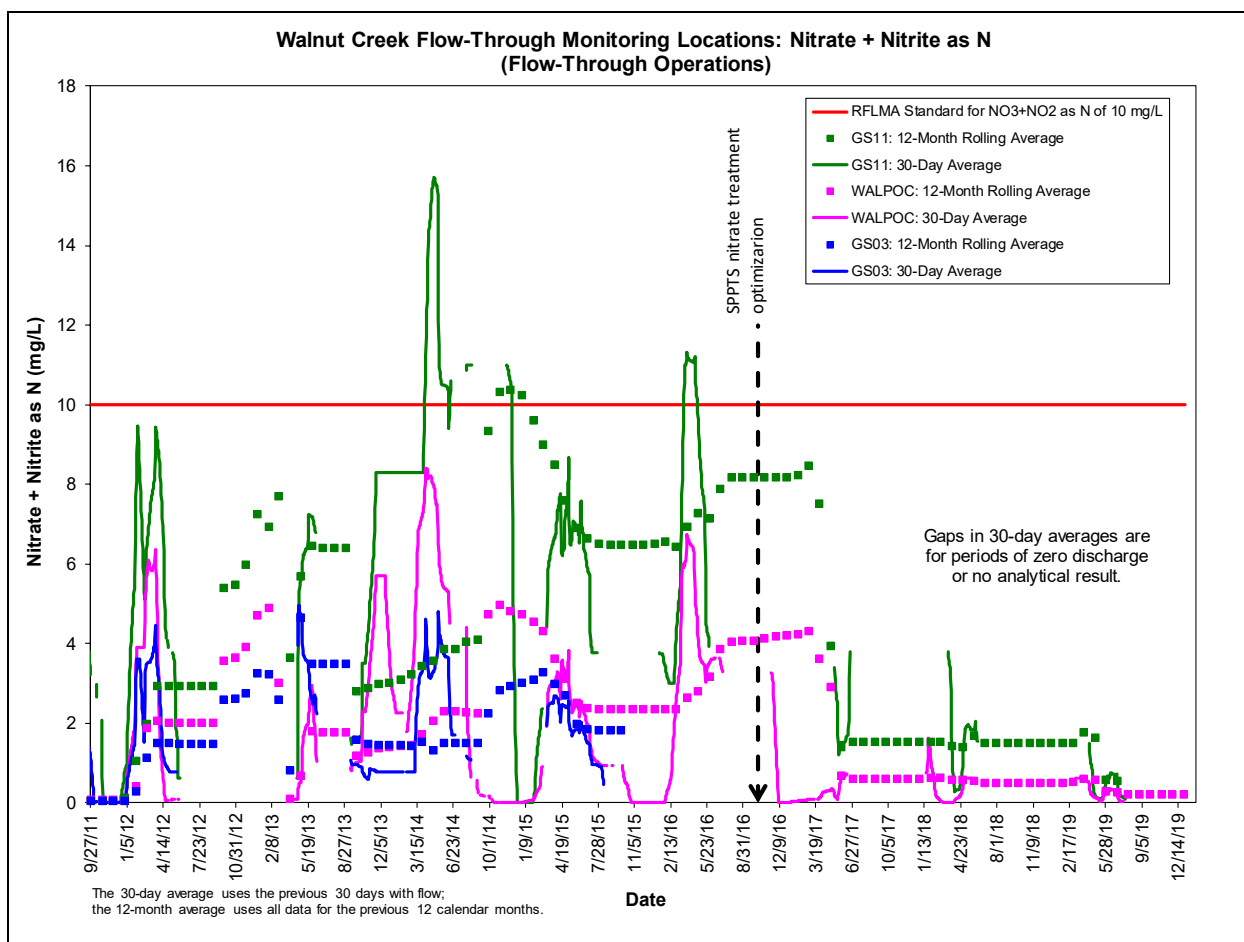
mg/L = milligrams per liter

N = nitrogen

NO₂ = nitrite

NO₃ = nitrate

Figure 10. Running Nitrate + Nitrite as Nitrogen Averages at Walnut Creek Flow-Through Locations: Postclosure Period



Note:
Monitoring at GS03 was discontinued on October 1, 2015.

Abbreviations:
mg/L = milligrams per liter
N = nitrogen
NO₂ = nitrite
NO₃ = nitrate

*Figure 11. Running Nitrate + Nitrite as Nitrogen Averages at Walnut Creek Flow-Through Locations:
Flow-Through Period*

3.3.2 Woman Creek Evaluation

Table 3 presents long-term volume-weighted averages in Woman Creek for the postclosure batch release period (October 2005 to November 2011) and the period since flow-through pond operations began (November 2011 to the present). Figure 12 through Figure 17 present the 30-day and 12-month rolling averages for each location, analyte, and time period.⁷

⁷ The RFLMA standards shown on these plots are for reference only. The RFLMA-required evaluation is location specific (i.e., POCs and POEs) and is not part of this AMP report. Evaluation of sampling results as required by RFLMA is routinely presented in other reports in accordance with the RFLMA reporting requirements.

Table 3. Volume-Weighted Averages for Woman Creek Flow-Through Monitoring Locations

Woman Creek: October 2005–November 2011 (Batch Release)

	Location Code	Uranium (µg/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)	
		Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS31	4.1	12	0.007	12	0.004	12
Downstream	GS01	2.3	95	0.007	95	0.004	95

Woman Creek: November 2011–Present (Flow-Through)

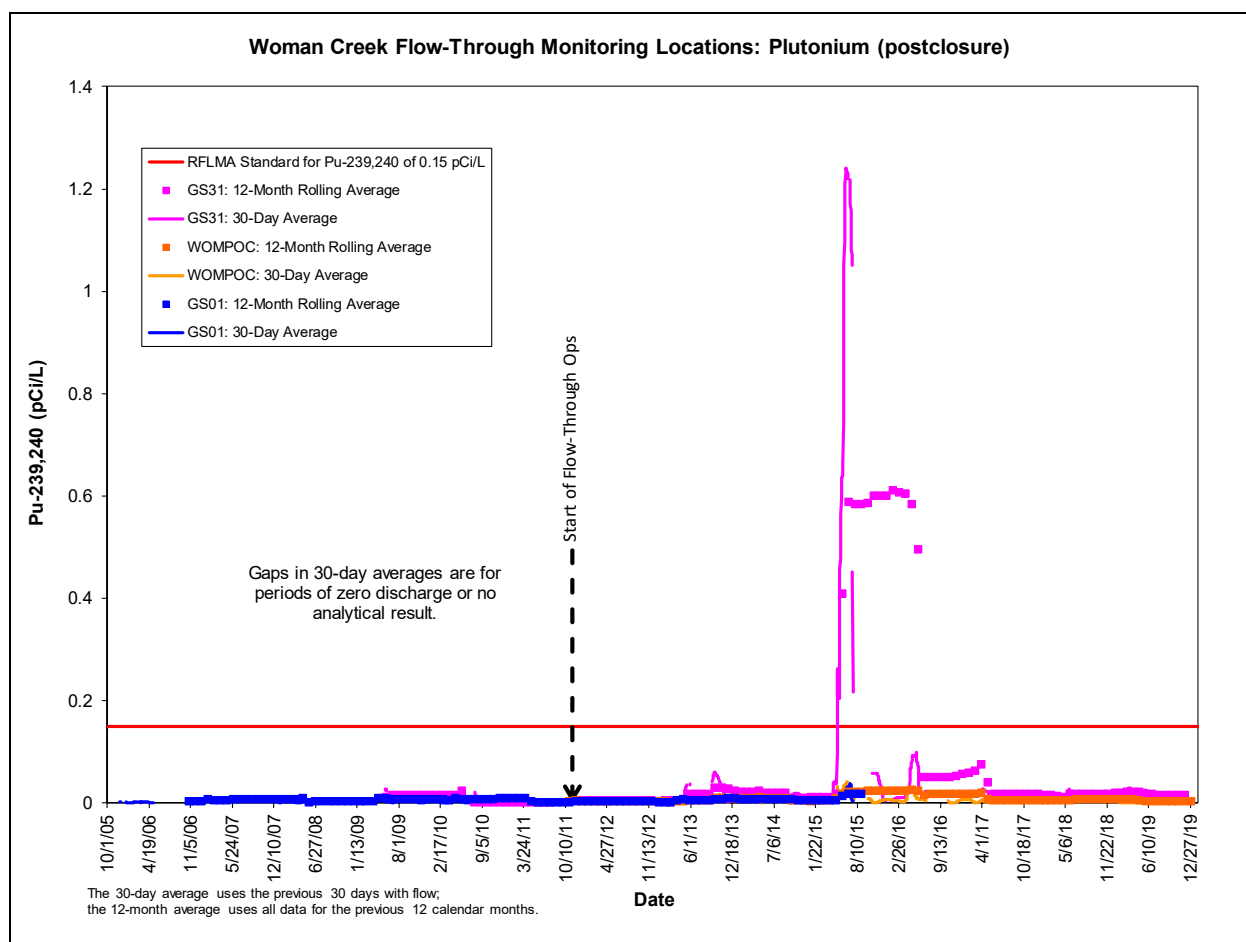
	Location Code	Uranium (µg/L)		Pu-239,240 (pCi/L)		Am-241 (pCi/L)	
		Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count	Volume-Weighted Average	Sample Count
Upstream	GS31	7.1	52	0.248	52	0.043	52
Downstream	WOMPOC	2.1	126	0.015	126	0.006	126
	GS01	2.1	47	0.014	47	0.007	47

Notes:

Sample counts vary because composite sampling periods vary with water availability. Monitoring at GS01 was discontinued on October 1, 2015.

Abbreviation:

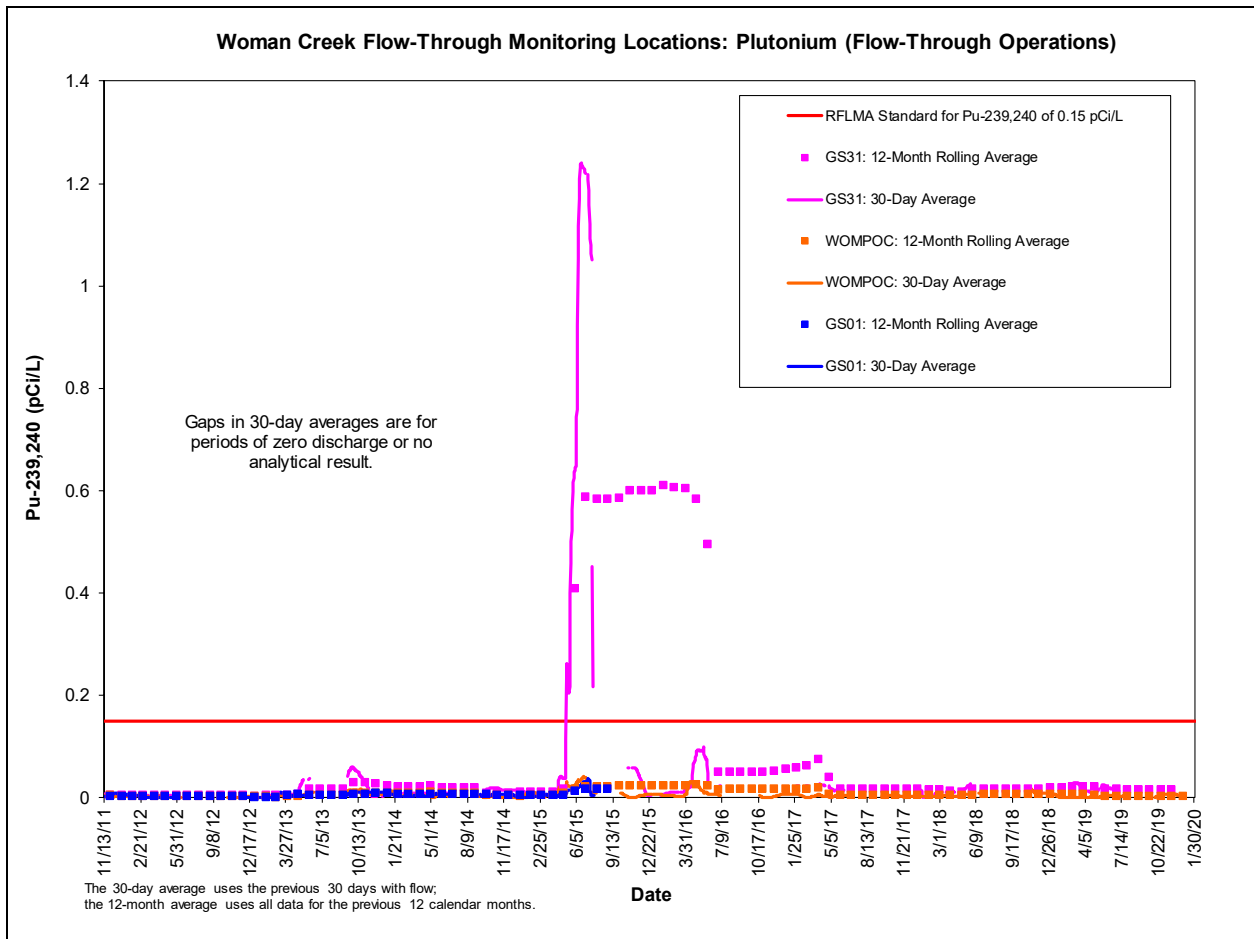
µg/L = micrograms per liter



Note:

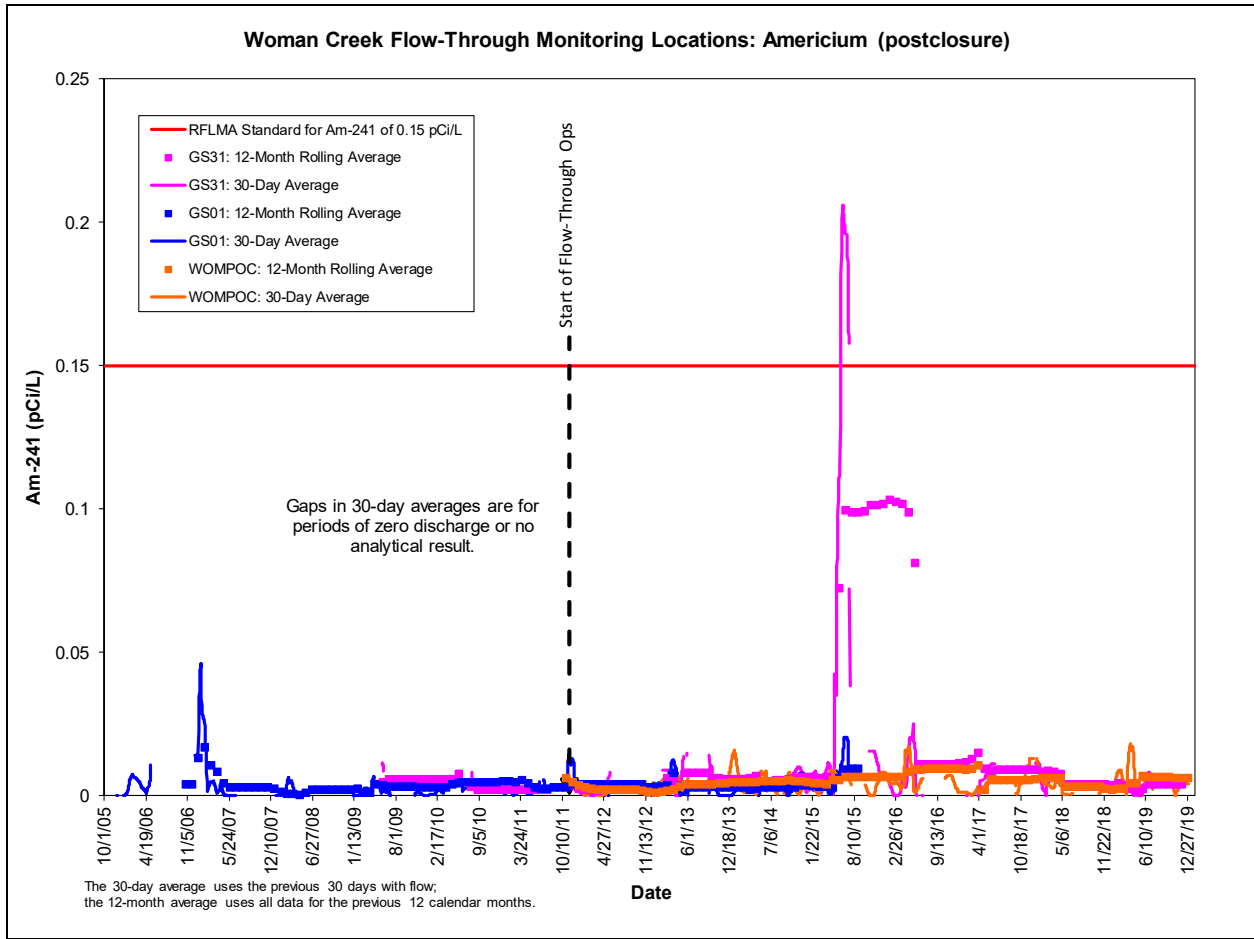
Monitoring at GS01 was discontinued on October 1, 2015.

Figure 12. Running Plutonium Averages at Woman Creek Flow-Through Locations: Postclosure Period



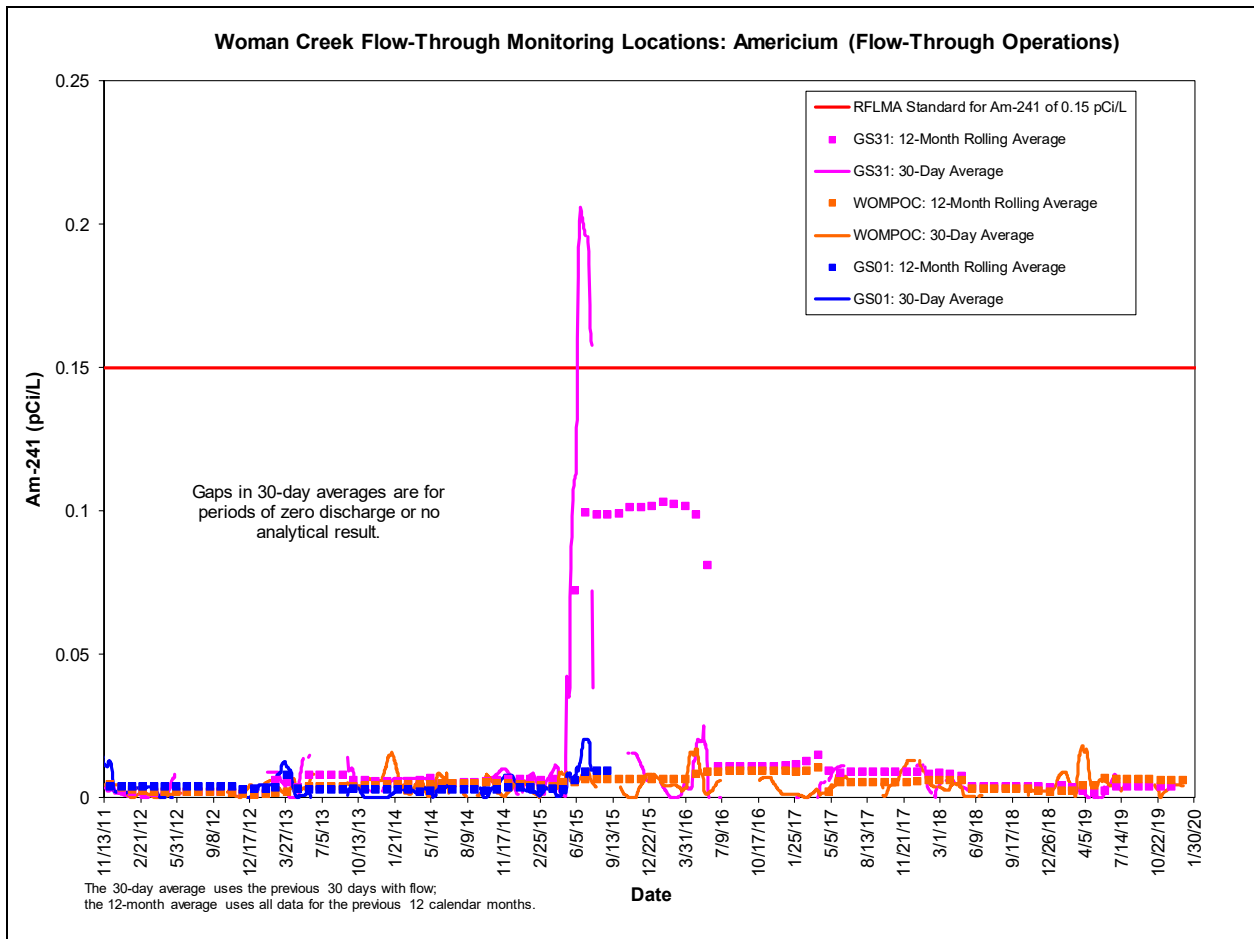
Note:
Monitoring at GS01 was discontinued on October 1, 2015.

Figure 13. Running Plutonium Averages at Woman Creek Flow-Through Locations: Flow-Through Period



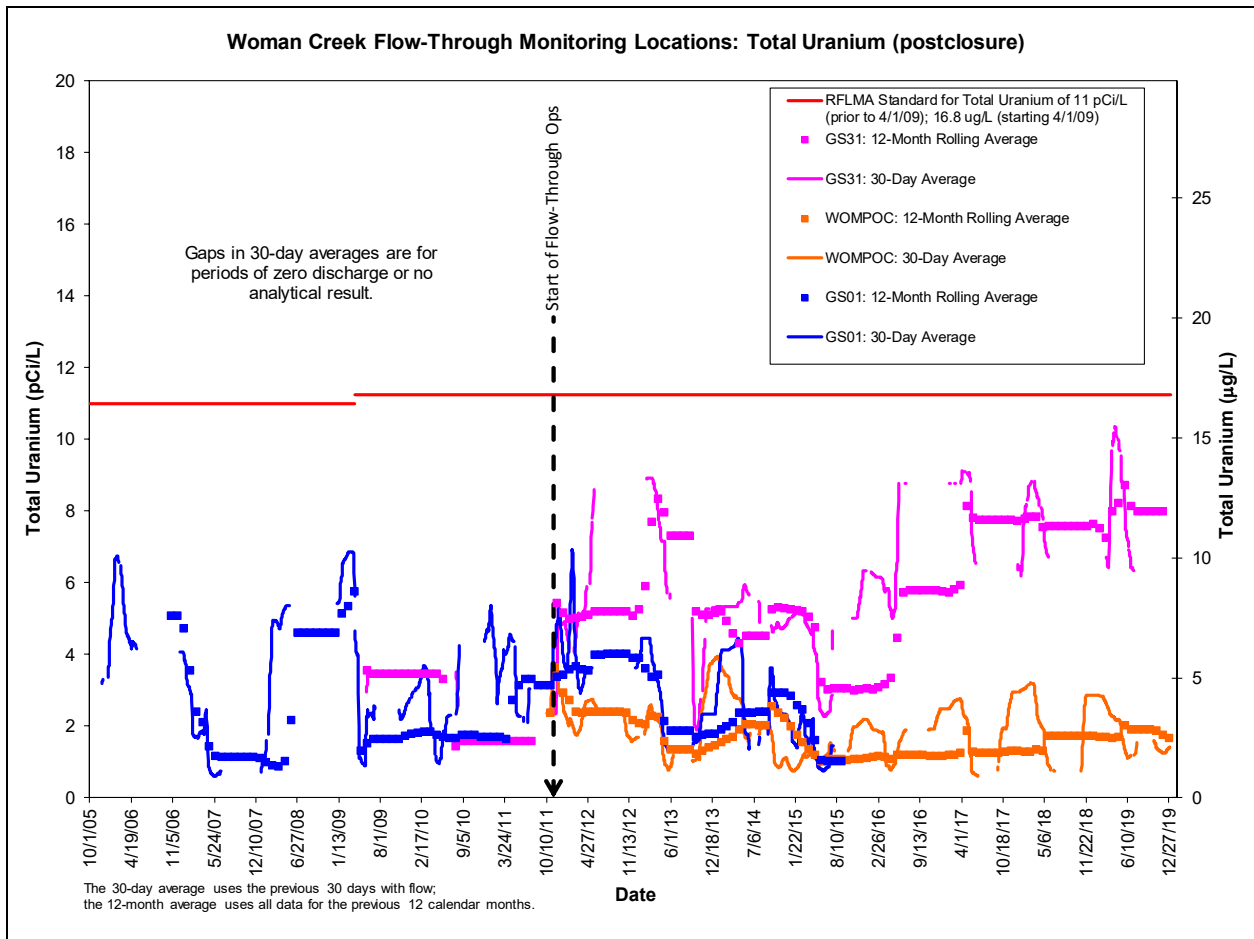
Note:
 Monitoring at GS01 was discontinued on October 1, 2015.

Figure 14. Running Americium Averages at Woman Creek Flow-Through Locations: Postclosure Period



Note:
Monitoring at GS01 was discontinued on October 1, 2015.

Figure 15. Running Americium Averages at Woman Creek Flow-Through Locations: Flow-Through Period



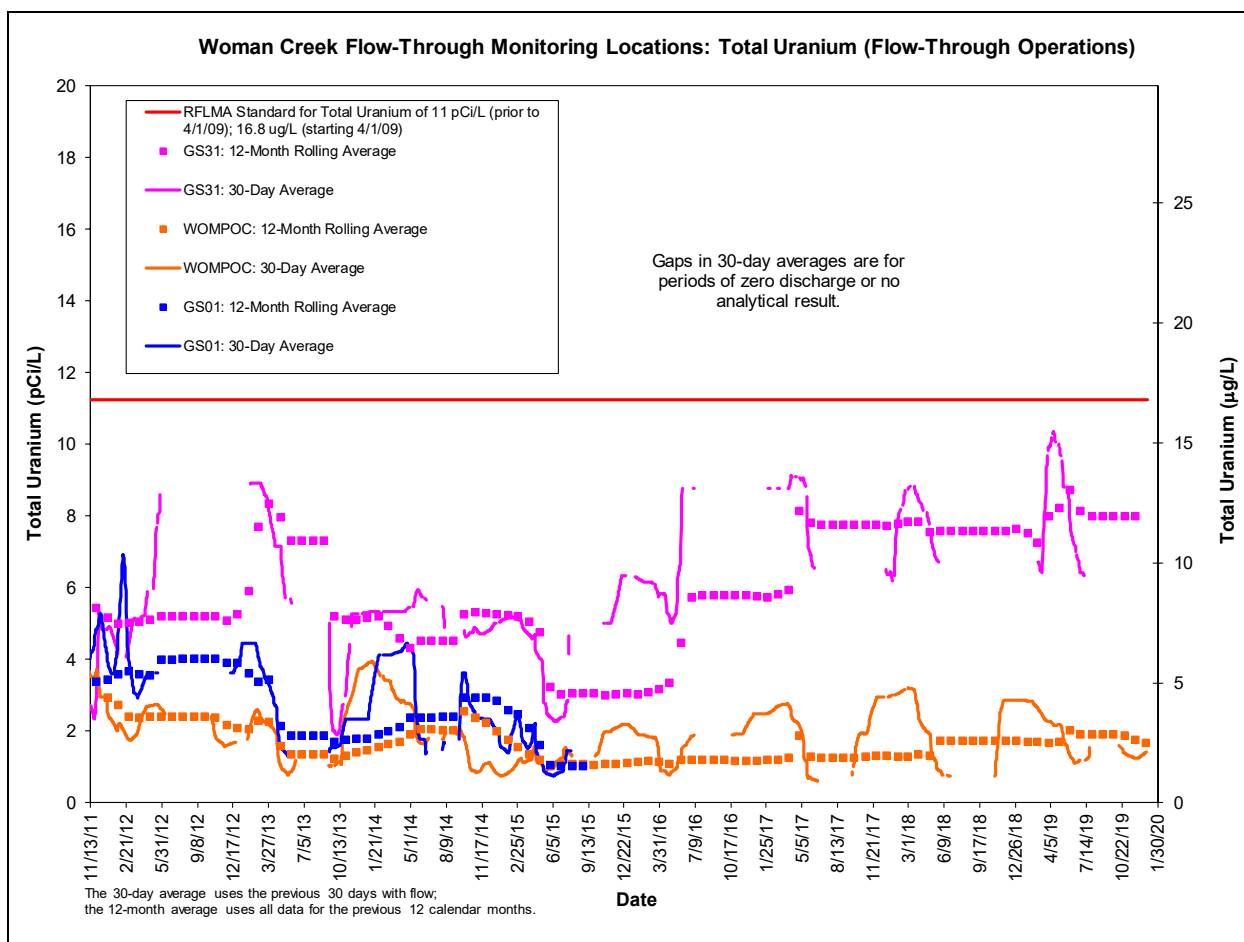
Notes:

Monitoring at GS01 was discontinued on October 1, 2015.
 After April 1, 2009, the µg/L results are shown as pCi/L using the conversion 1 µg/L = 0.67 pCi/L.

Abbreviation:

µg/L = micrograms per liter

Figure 16. Running Uranium Averages at Woman Creek Flow-Through Locations: Postclosure Period



Notes:

Monitoring at GS01 was discontinued on October 1, 2015.
 After April 1, 2009, the µg/L results are shown as pCi/L using the conversion 1 µg/L = 0.67 pCi/L.

Abbreviation:

µg/L = micrograms per liter

Figure 17. Running Uranium Averages at Woman Creek Flow-Through Locations: Flow-Through Period

Compared to batch operations, as expected the plots show somewhat increased water quality variability for uranium, but concentrations remain below the applicable standard. As discussed for Walnut Creek, flow-through 30-day averages show increased day-to-day variability since water is no longer being batched and mixed before discharge. Conversely, flow-through 12-month rolling averages show month-to-month variability comparable to that of batch operations.

For GS31 (outlet from Pond C-2), the significantly higher Pu and Am concentrations in 2015 are associated with the high runoff during spring 2015. These concentrations are a result of runoff from the South Interceptor Ditch (SID) passing through Pond C-2. This runoff also resulted in reportable 12-month rolling Pu concentrations at point of evaluation (POE) SW027. A detailed discussion of the reportable condition and subsequent mitigating response can be found in the RFLMA quarterly reports for 2015. Note that Pu and Am concentrations at GS31 in 2016 through 2019 are significantly reduced (as indicated by the 30-day average), and concentrations at the downstream POC (WOMPOC) remain well below the 0.15 pCi/L standard.

3.4 Storm-Event Monitoring

This objective involves collecting water quality data to assess actinide and solids transport during runoff periods resulting from precipitation events. The intent is to evaluate whether significant correlations exist between flow rate and actinide concentrations and further describe short-term, event-driven variability. In addition, these data can be used to assess the effectiveness of ongoing revegetation and erosion control practices.

Location GS31 below the Pond C-2 outlet (Figure 18 and Figure 19) is used for storm-event monitoring. Storm-event monitoring equipment at GS31 was installed in spring 2012 to specifically evaluate water quality when runoff passes through Pond C-2 while being operated in a flow-through configuration. Samples are collected as time-paced sequential grabs using an automated sampler with a 24-bottle carousel. The first storm-event monitoring samples were collected during the September 2013 flood.

During 2019, no measurable runoff events occurred at SW027 and no storm-event samples were collected at GS31. Analytical results for previous years are listed in Table 4. Hydrographs with sample events for previous years are given in Figure 20 through Figure 26.

Various correlations are plotted in Figure 27 through Figure 30 for the relatively few results available. Relationships are observed for Pu, Am, and U in comparison to flow rate. Figure 28 suggests increasing Pu and Am concentration with increasing flow rate. Since Pu and Am move in association with suspended solids (i.e., soil particles), this relationship is expected because increased flow rate generally results in increased total suspended solids (TSS). However, Figure 30 shows no relationship between flow rate and TSS. Therefore, the increased concentration may depend on the origin of the runoff for specific events. In other words, if an area with higher residual contamination, like the 903 Lip Area, contributes a higher proportion of runoff during large runoff events, then an increase in concentration would consequently be observed for higher flow rates.

Figure 29, in contrast, shows a good correlation between decreasing uranium concentration and increasing flow rate. This water quality effect is observed at many locations on the Site as naturally occurring uranium from groundwater sources is diluted during runoff events.

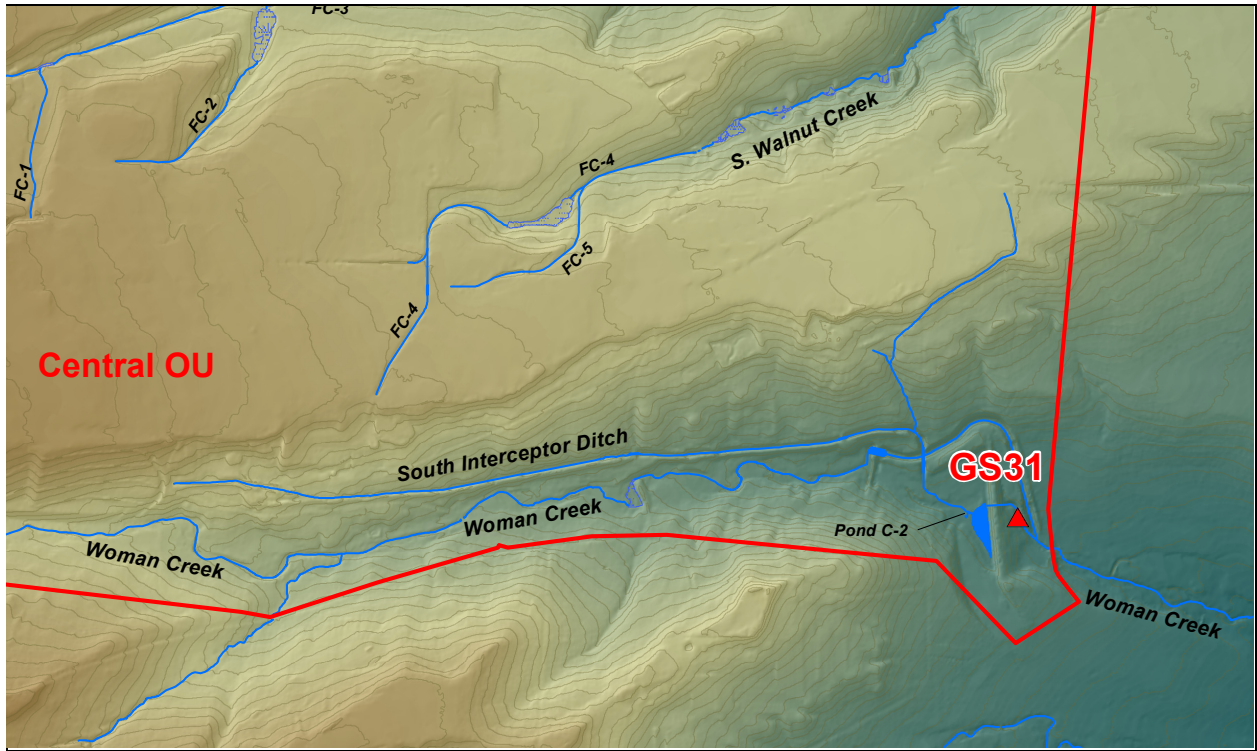


Figure 18. Storm-Event Monitoring Location GS31

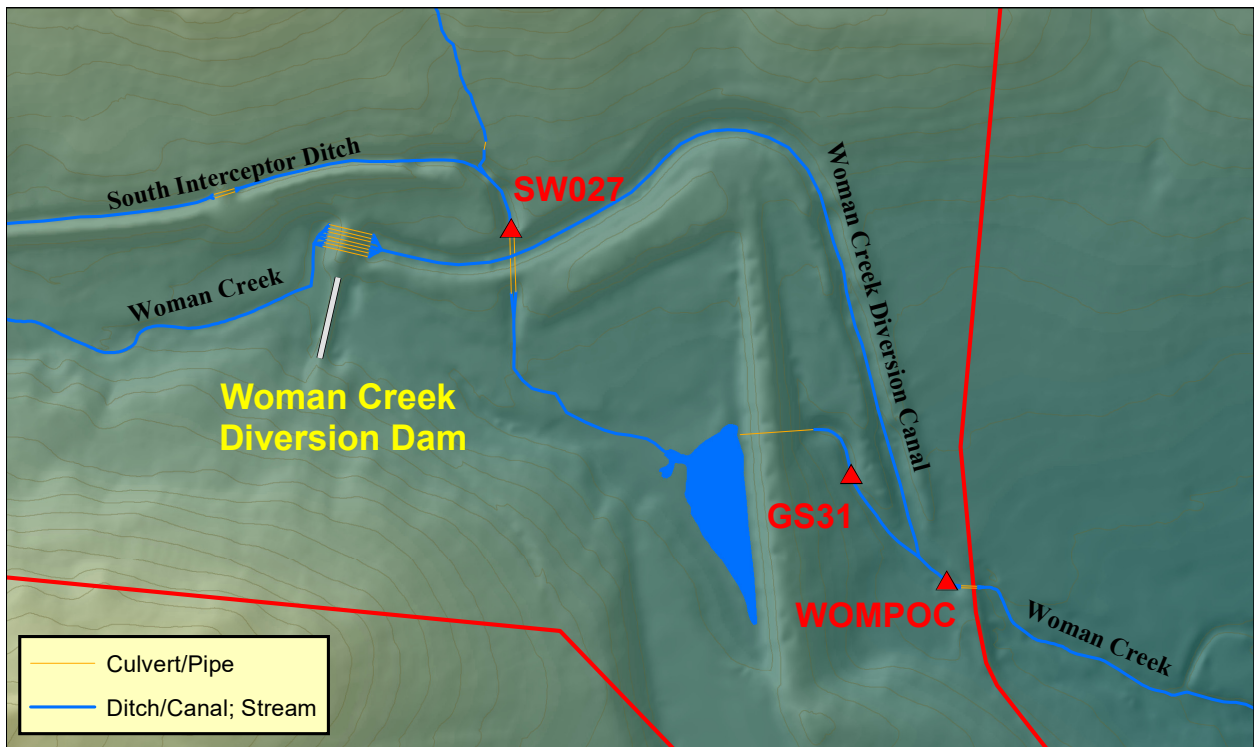


Figure 19. Detail Map for Storm-Event Monitoring Location GS31

Table 4. GS31 Storm-Event Sample Results

Sampling Date	Plutonium-239, 240 (pCi/L)	Americium-241 (pCi/L)	Uranium (µg/L)	TSS (mg/L)	Flow Rate (cfs)
9/12/2013 ^a	0.037	0.006	1.41	NA	13.5
9/12/2013 ^b	0.045	0.016	1.11	NA	14.7
4/17/2015	0.090	0.008	4.86	13.3	1.79
5/5/2015	0.011	0.003	5.17	8.8	0.57
5/19/2015	0.141	0.021	3.41	8.2	2.73
6/4/2015	2.590	0.717	2.72	NA	4.67
4/16/2016	0.073	0.023	7.54	9.2	2.78
5/3/2018	0.006	0.000	10.0	11.0	0.61

Notes:

- ^a Sample includes significant quantities of water that flooded over the Woman Creek diversion dam into Pond C-2 when flows from the SID were minimal (see Figure 20).
- ^b Sample includes significant quantities of water that flooded over the Woman Creek diversion dam into Pond C-2 when flows from the SID were also significant (see Figure 20).

Abbreviations:

cfs = cubic feet per second
 µg/L = micrograms per liter
 mg/L = milligrams per liter

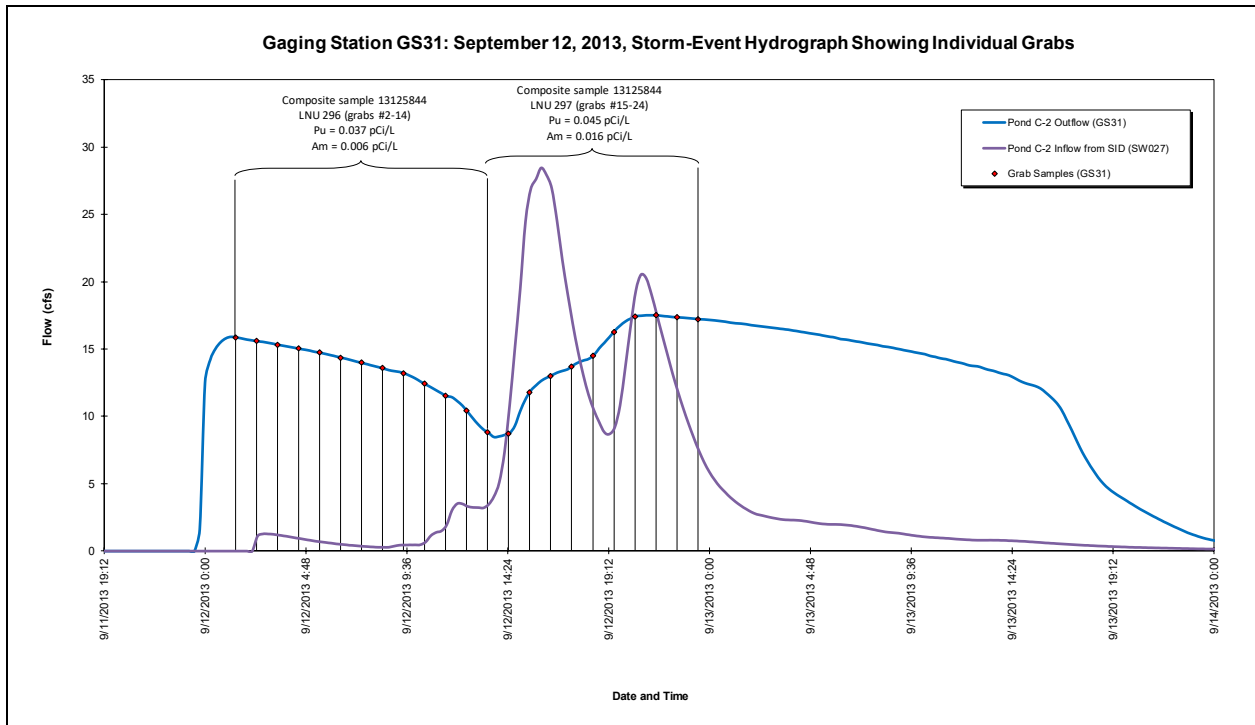


Figure 20. Storm-Event Hydrograph at GS31: September 12, 2013

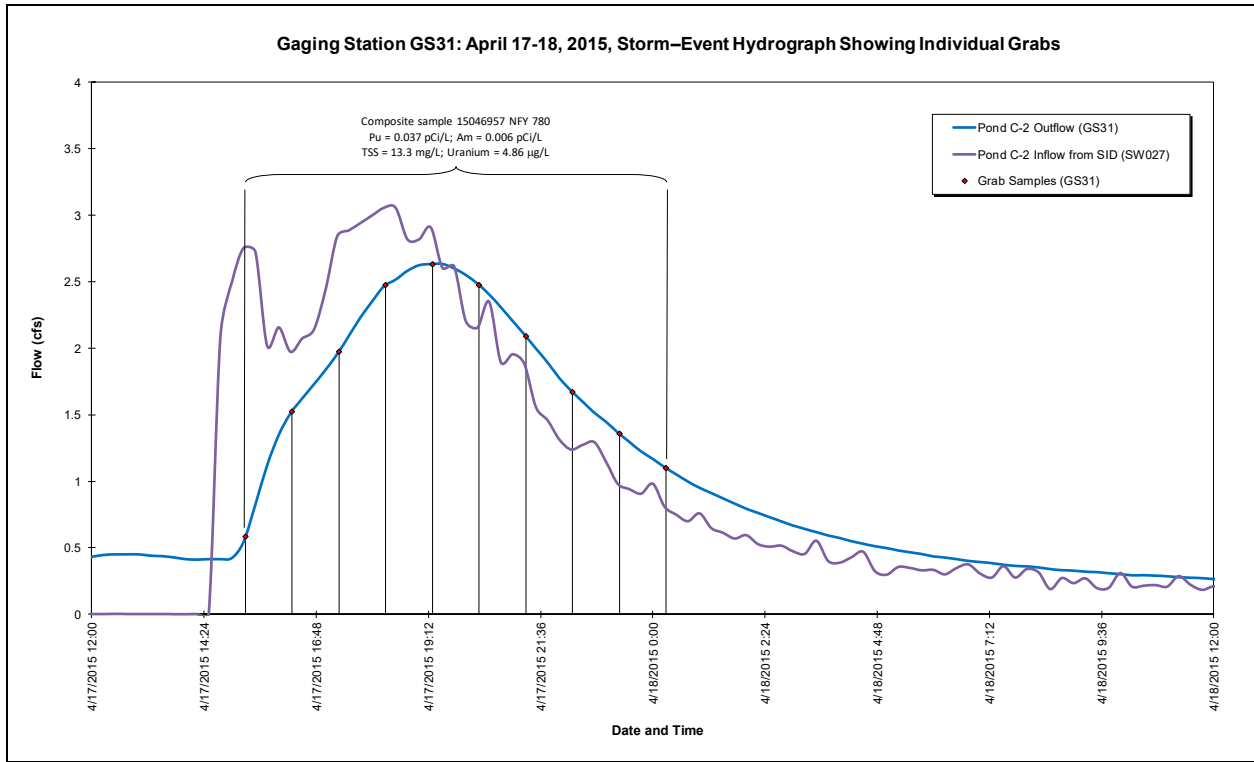


Figure 21. Storm-Event Hydrograph at GS31: April 17–18, 2015

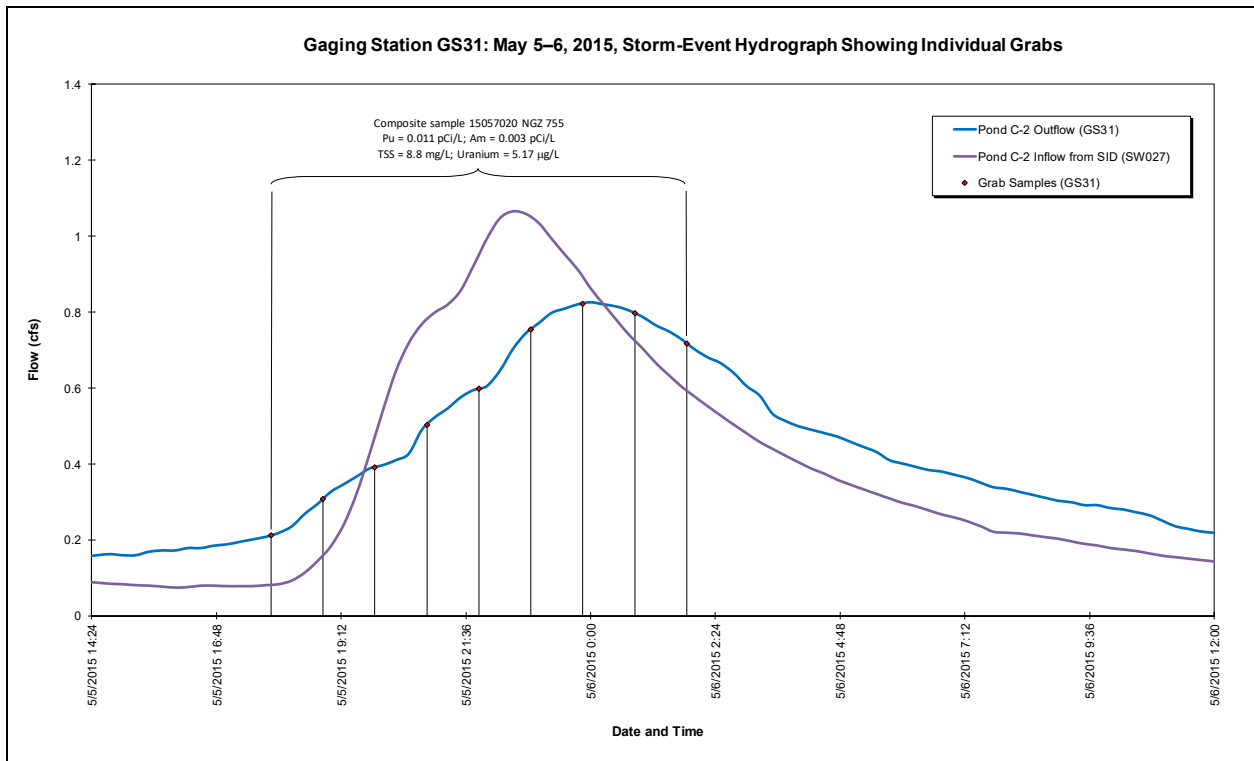


Figure 22. Storm-Event Hydrograph at GS31: May 5–6, 2015

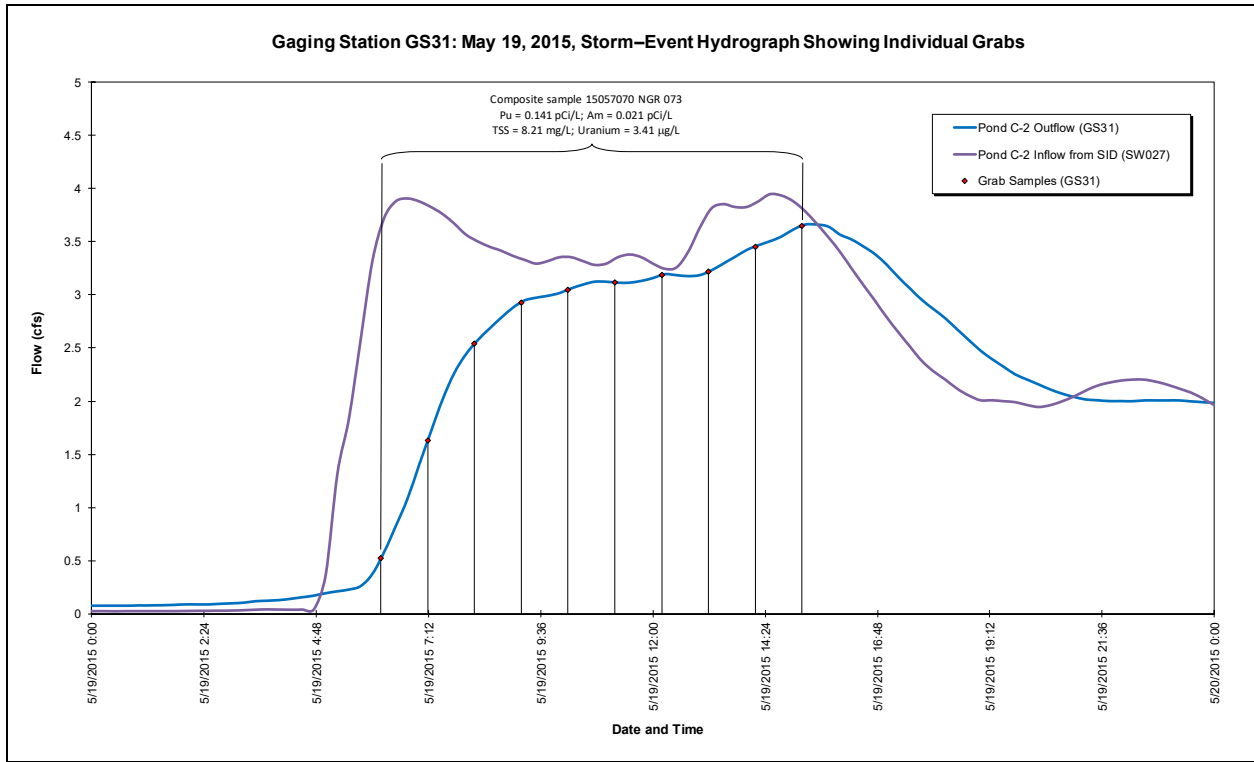


Figure 23. Storm-Event Hydrograph at GS31: May 19, 2015

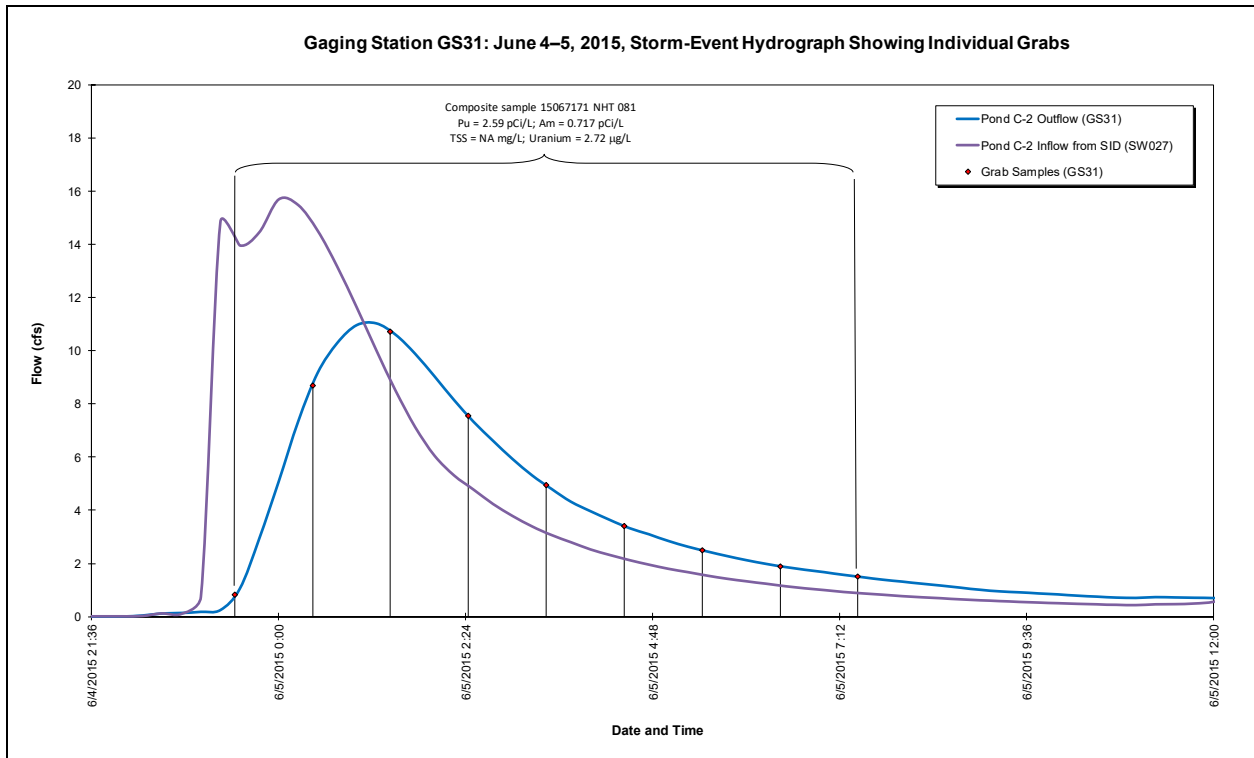


Figure 24. Storm-Event Hydrograph at GS31: June 4-5, 2015

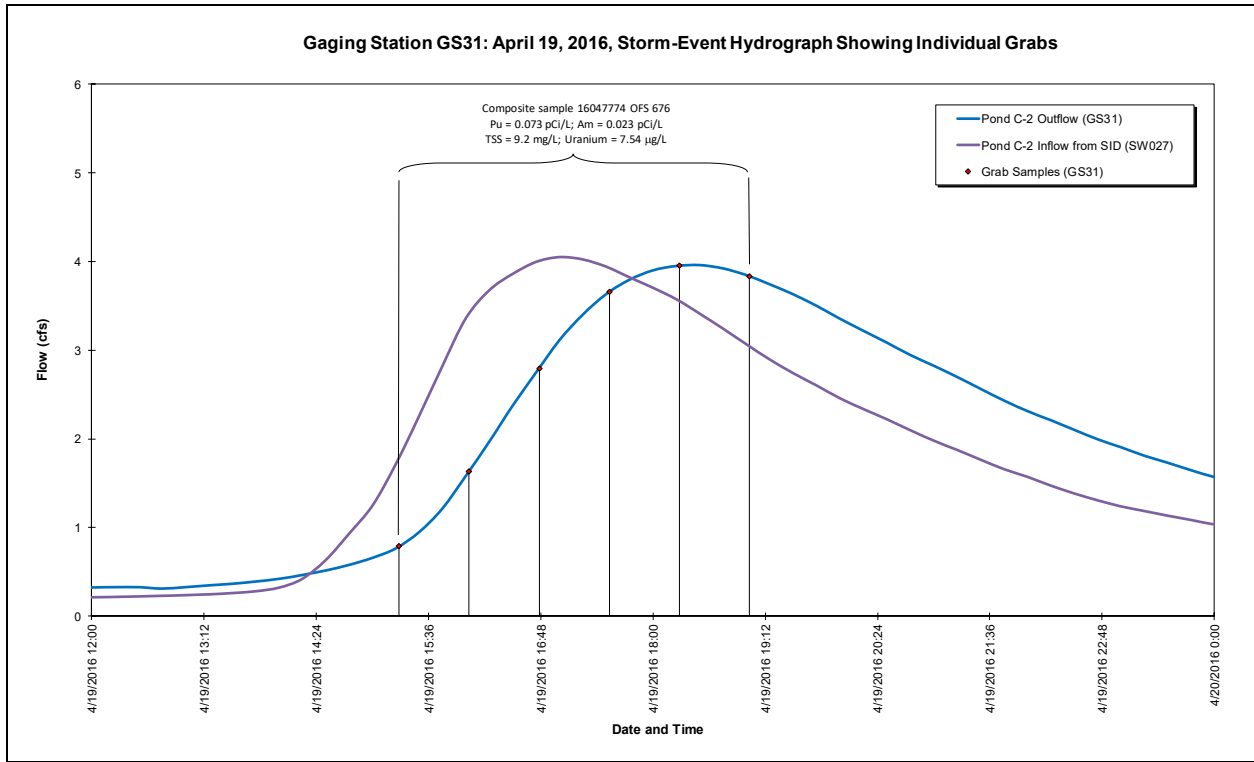


Figure 25. Storm-Event Hydrograph at GS31: April 19, 2016

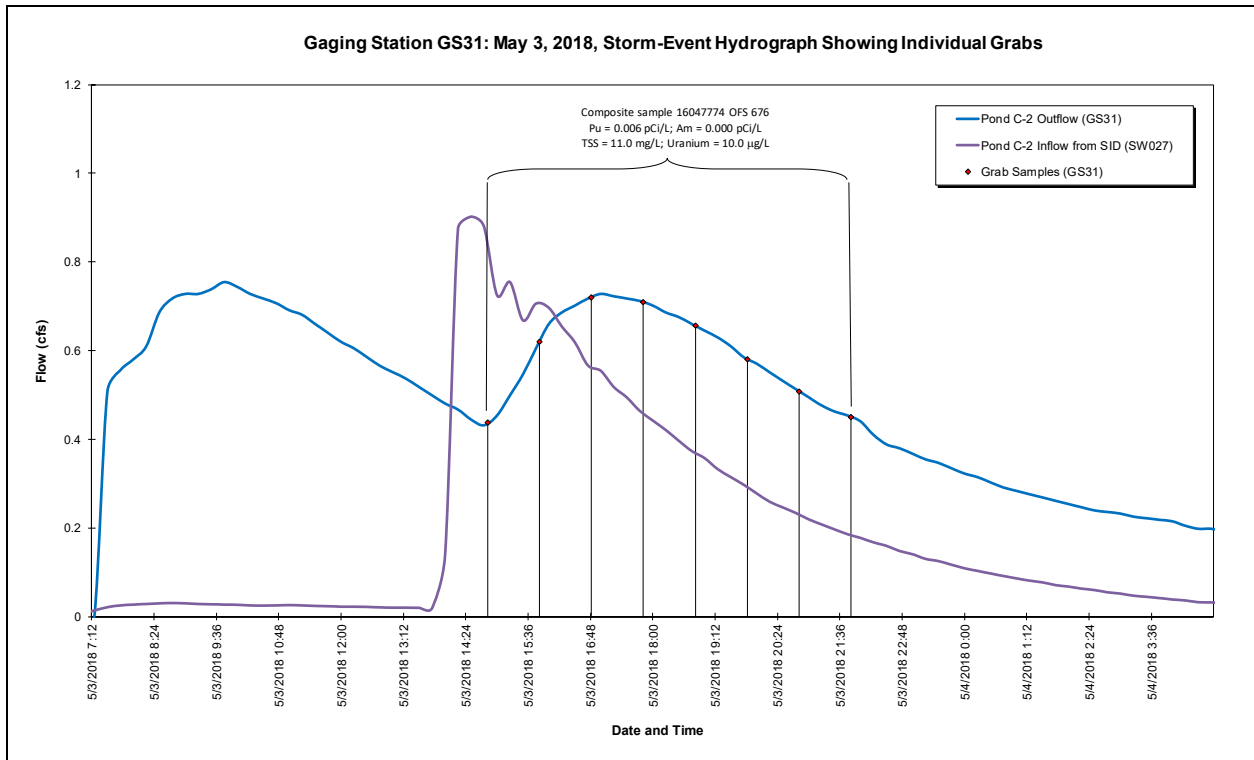
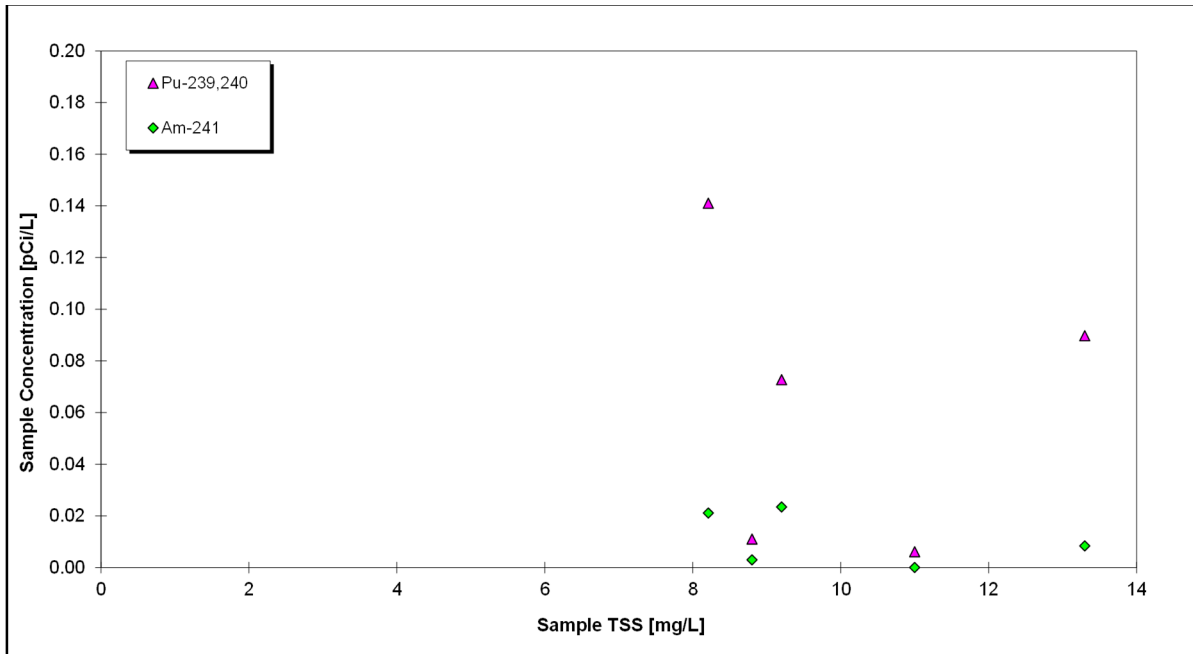
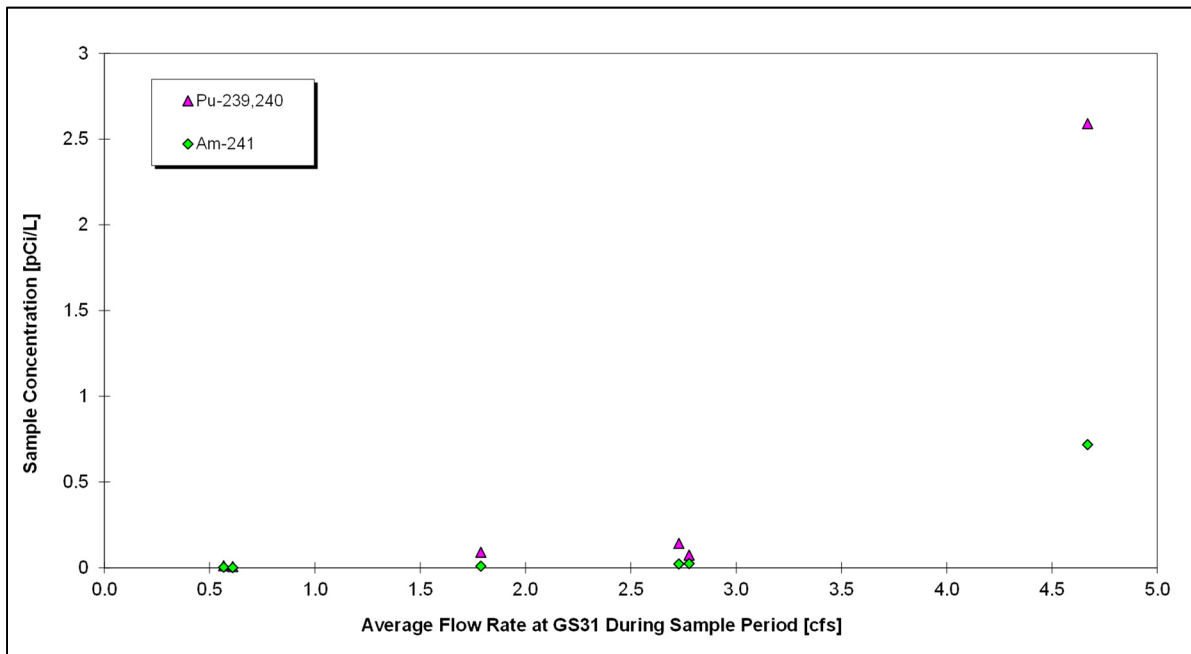


Figure 26. Storm-Event Hydrograph at GS31: May 3, 2018



Abbreviation:
mg/L = milligrams per liter

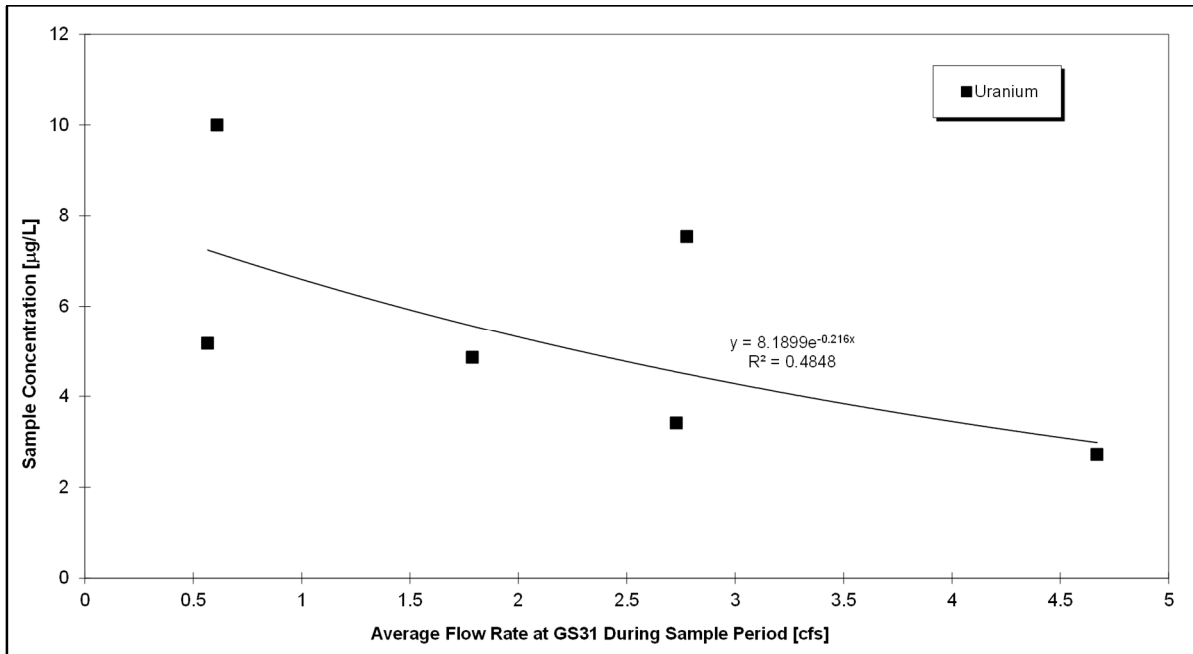
Figure 27. Plutonium and Americium Concentration Versus Total Suspended Solids for GS31 Storm-Event Samples



Note:
The 2013 results are not shown since they were significantly diluted by Woman Creek water that flooded over the Woman Creek Diversion into Pond C-2.

Abbreviation:
cfs = cubic feet per second

Figure 28. Plutonium and Americium Concentration Versus Average Sample Flow Rate for GS31 Storm-Event Samples



Note:

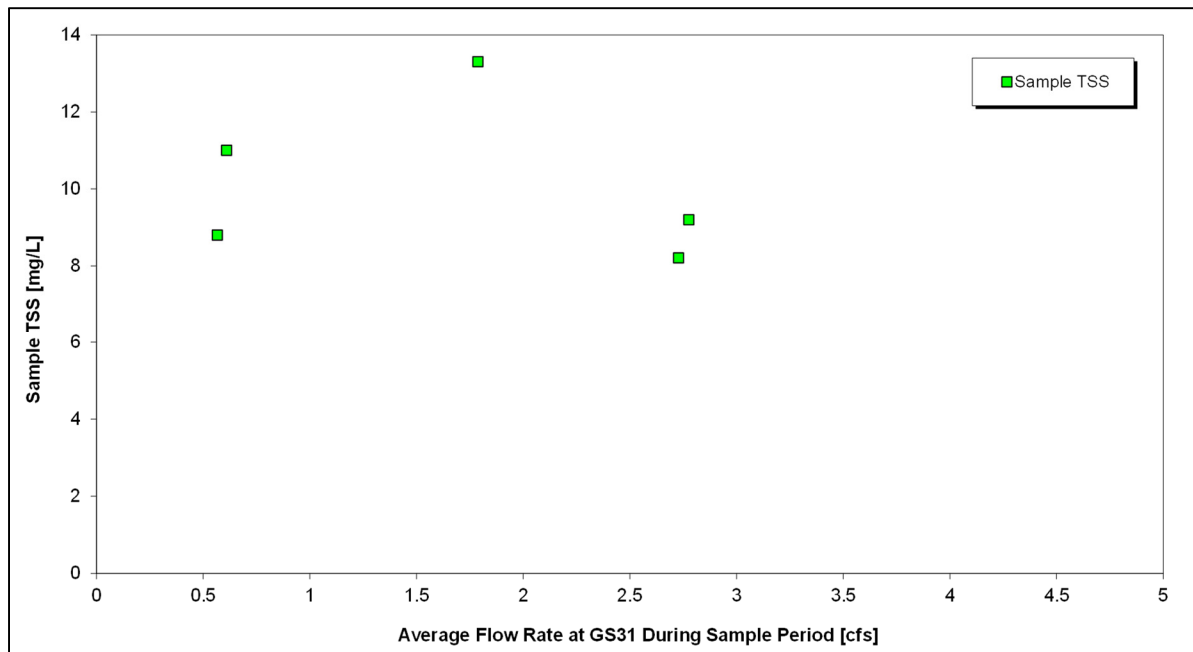
The 2013 results are not shown since they were significantly diluted by Woman Creek water that flooded over the Woman Creek Diversion into Pond C-2.

Abbreviations:

cfs = cubic feet per second

µg/L = micrograms per liter

Figure 29. Uranium Concentration Versus Average Sample Flow Rate for GS31 Storm-Event Samples



Abbreviations:

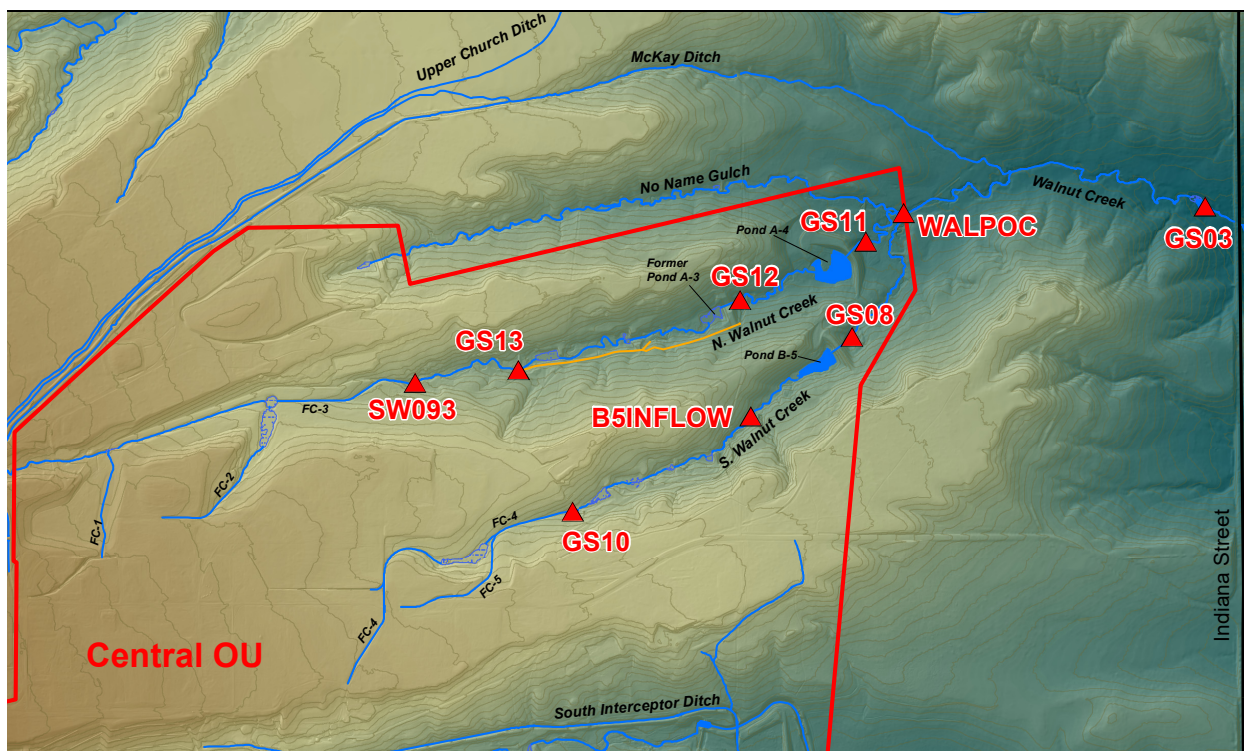
cfs = cubic feet per second

mg/L = milligrams per liter

Figure 30. Total Suspended Solids Versus Average Sample Flow Rate for GS31 Storm-Event Samples

3.5 Continuous Flow-Paced Composite Sampling to Evaluate Uranium Transport

This monitoring objective is intended to evaluate the in-stream transport of uranium, specifically for Ponds A-4 and B-5, by assessing correlations, patterns, variability, and loading. The monitoring locations currently being used to support this objective are shown in Figure 31. Samples are collected as continuous flow-paced composites during all flow conditions. Sampling for this monitoring objective began on March 10, 2010, in North Walnut Creek and on June 16, 2010, in South Walnut Creek. Monitoring location WALPOC began operational testing on September 9, 2011. Monitoring at GS03 was discontinued on October 1, 2015. Therefore, this evaluation uses three time periods: March 10, 2010, to October 1, 2015; June 16, 2010, to October 1, 2015; and September 9, 2011, to the present.



Notes:

The orange line shows the location of the A-Series Bypass Pipeline. See text for additional information. Monitoring at GS03 was discontinued on October 1, 2015.

Figure 31. Continuous Flow-Paced Composite Sampling Locations in Walnut Creek

Starting on October 13, 2011, water in North Walnut Creek was diverted around Pond A-3 and former Ponds A-1 and A-2 to support the Dam A-3 breach construction. This diverted water was routed through the A-Series Bypass Pipeline from GS13 to just below Pond A-3 (near GS12) until March 21, 2012. During this period, it is assumed that the quality and quantity of water when it entered the pipeline were the same as when it exited the pipeline.⁸ Therefore, data

⁸ This assumption was confirmed by grab samples taken at GS13 and A4INFLOW during use of the pipeline; A4INFLOW is just upstream of Pond A-4.

collected at both GS13 and GS12 during this period have been combined to effectively summarize water quality *entering* Pond A-4 and not water quality *exiting* Pond A-3.

Table 5 through Table 7 show summary statistics for the three time periods described above. The data show long-term concentrations below the uranium standard (16.8 micrograms per liter [$\mu\text{g/L}$]) at all locations. In addition, all locations show concentrations well below the 30 $\mu\text{g/L}$ drinking water maximum contaminant level for uranium. Figure 32 uses proportional symbols to map the uranium concentrations since September 9, 2011 (see Table 7 for values).⁹

Table 5. Summary Statistics for Uranium Continuous Flow-Paced Composite Sampling: March 10, 2010, to October 1, 2015

South Walnut Creek				North Walnut Creek			Upstream ↓ ↓ Downstream
	Location Code	Volume-Weighted Average ($\mu\text{g/L}$)	Sample Count	Volume-Weighted Average ($\mu\text{g/L}$)	Sample Count	Location Code	
Upstream	GS10*	13.7	104	6.6	90	SW093*	
Downstream	GS08	8.9	61	10.2	76	GS13*	
				12.8	80	GS12 (A-4 inflow)	
				9.2	53	GS11	
				↓			
				Walnut Creek			
	Location Code	Volume-Weighted Average	Sample Count				
	GS03	5.5	74				

Notes:

* Data for GS10, SW093, and GS13 are currently acquired through the routine RFLMA-required monitoring at these locations.

Sample counts vary because composite sampling periods vary with water availability.

Monitoring at GS03 was discontinued on October 1, 2015.

⁹ Due to interruptions in automated sampling and the corresponding lack of analytical data for some periods during the September 2013 flood, for comparison purposes, the start of the high runoff (which began late in the day on September 11, 2013) through its end on September 13, 2013, is not included in the evaluation in this section. Additionally, some data are estimated to enable the comparison herein; under normal RFLMA data evaluation protocols, these estimated data would not be included.

Table 6. Summary Statistics for Uranium Continuous Flow-Paced Composite Sampling: June 16, 2010, to October 1, 2015

South Walnut Creek				North Walnut Creek			Upstream ↓ ↓ Downstream	
	Location Code	Volume-Weighted Average (µg/L)	Sample Count	Volume-Weighted Average (µg/L)	Sample Count	Location Code		
Upstream	GS10*	13.7	95	6.5	77	SW093*		
↓	B5INFLOW	10.3	62	10.5	65	GS13*		
↓				13.1	67	GS12 (A-4 inflow)		
Downstream	GS08	8.8	51	9.1	44	GS11		
↓								
Walnut Creek								
	Location Code	Volume-Weighted Average	Sample Count					
	GS03	5.4	58					

Notes:

* Data for GS10, SW093, and GS13 are currently acquired through the routine RFLMA-required monitoring at these locations.

Sample counts vary because composite sampling periods vary with water availability.

Monitoring at GS03 was discontinued on October 1, 2015.

Table 7. Summary Statistics for Uranium Continuous Flow-Paced Composite Sampling: Starting September 9, 2011

South Walnut Creek				North Walnut Creek			Upstream ↓ ↓ Downstream	
	Location Code	Volume-Weighted Average (µg/L)	Sample Count	Volume-Weighted Average (µg/L)	Sample Count	Location Code		
Upstream	GS10*	12.9	141	6.5	101	SW093*		
↓	B5INFLOW	10.9	81	9.8	84	GS13*		
↓				13.4	81	GS12		
Downstream	GS08	9.4	81	10.1	64	GS11		
↓								
Walnut Creek								
	Location Code	Volume-Weighted Average	Sample Count					
	WALPOC*	9.7	104					

Notes:

* Data for GS10, SW093, GS13, and WALPOC are currently acquired through the routine RFLMA-required monitoring at these locations.

Sample counts vary because composite sampling periods vary with water availability.

Summary includes all data available as of February 1, 2020; some recent data are not validated (i.e., are preliminary and subject to revision).

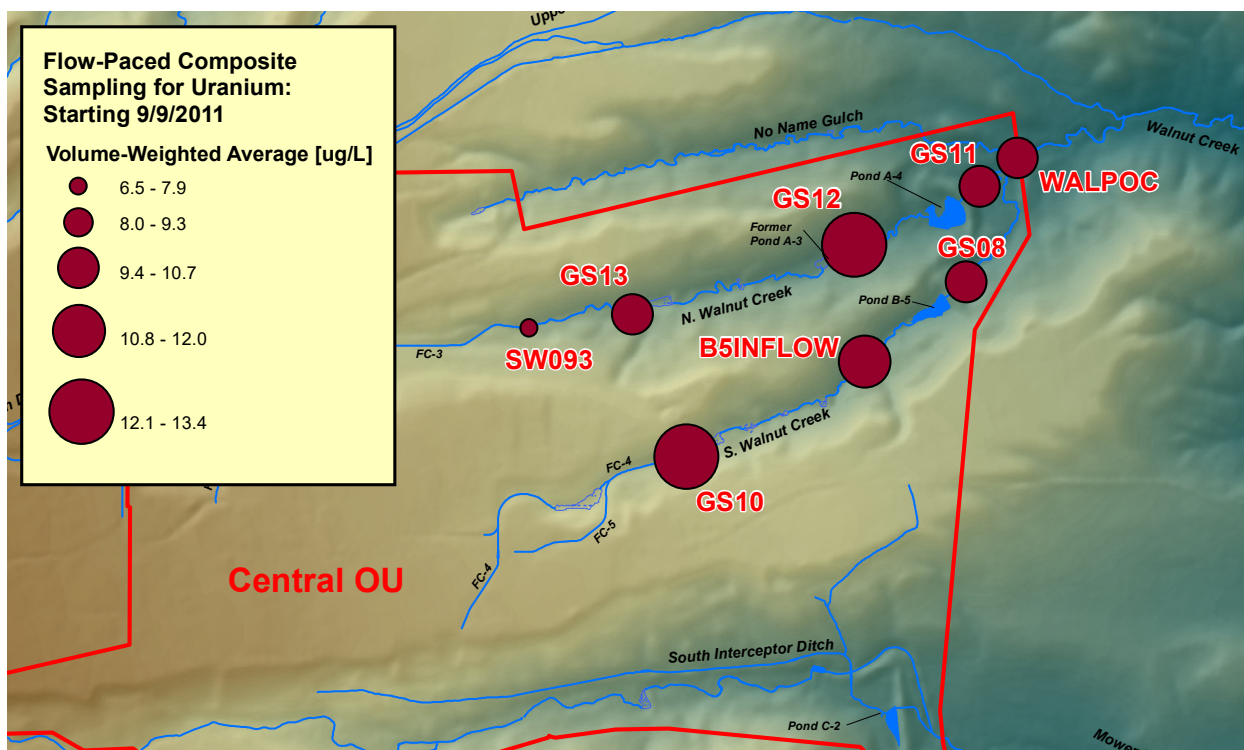


Figure 32. Map Showing Volume-Weighted Average Uranium Concentrations for Samples Collected Since September 9, 2011

Figure 33 through Figure 48 show plots of composite sample results and the 365-day volume-weighted rolling averages at each location.¹⁰ The 365-day rolling average differs from the 12-month rolling average used for RFLMA evaluation in that the 365-day rolling average is calculated for every day, while the 12-month rolling average is calculated only for the last day of each month. The plots also show the corresponding hydrograph at each location showing the mean daily flow in cubic feet per second (cfs). The plots clearly show the significant variability in sample results. In general, the higher concentrations are during periods of base flow with very little runoff (i.e., winter) and during periods when the natural geochemistry is more favorable for uranium transport.

As mentioned earlier, an extensive geochemistry study has been completed that examines the transport mechanisms associated with uranium and nitrate at the Site and the effects of the September 2013 flood. The report can be found at: https://www.lm.doe.gov/Rocky_Flats/RFS_Evaluation_of_Water_Quality_Variability_April_2015.pdf. A 2018 update to this report can also be found at the Rocky Flats Site website (https://www.lm.doe.gov/land/sites/co/rocky_flats/rocky.htm).

¹⁰ The RFLMA standards shown on these plots are for reference only. The RFLMA-required evaluation is location specific (i.e., POCs, POEs) and is not part of this AMP report. Evaluation of sampling results as required by RFLMA is routinely presented in other reports in accordance with the RFLMA reporting requirements. To show uranium units of both pCi/L and $\mu\text{g/L}$, the conversion $1 \mu\text{g} = 0.67 \text{ pCi}$ is used.

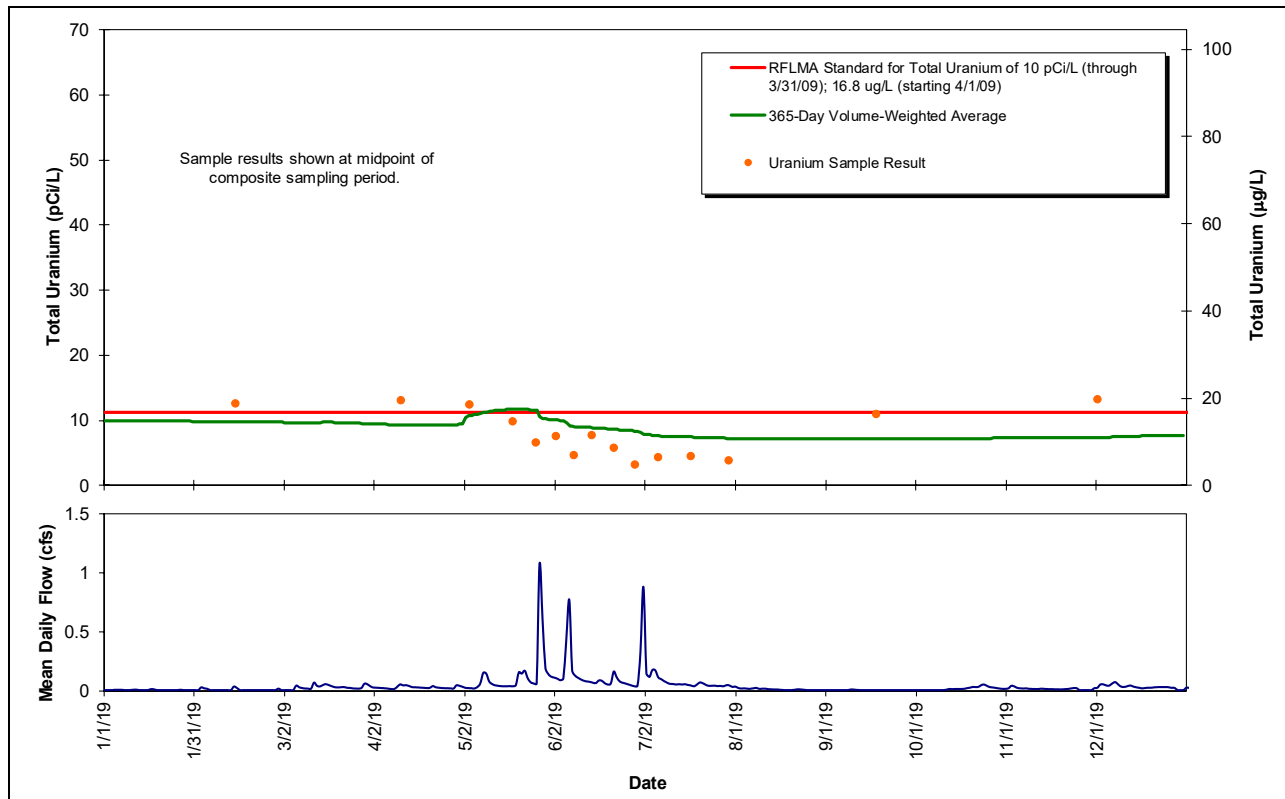


Figure 33. Composite Sample Uranium Results and Rolling 365-Day Averages at GS10: CY 2019

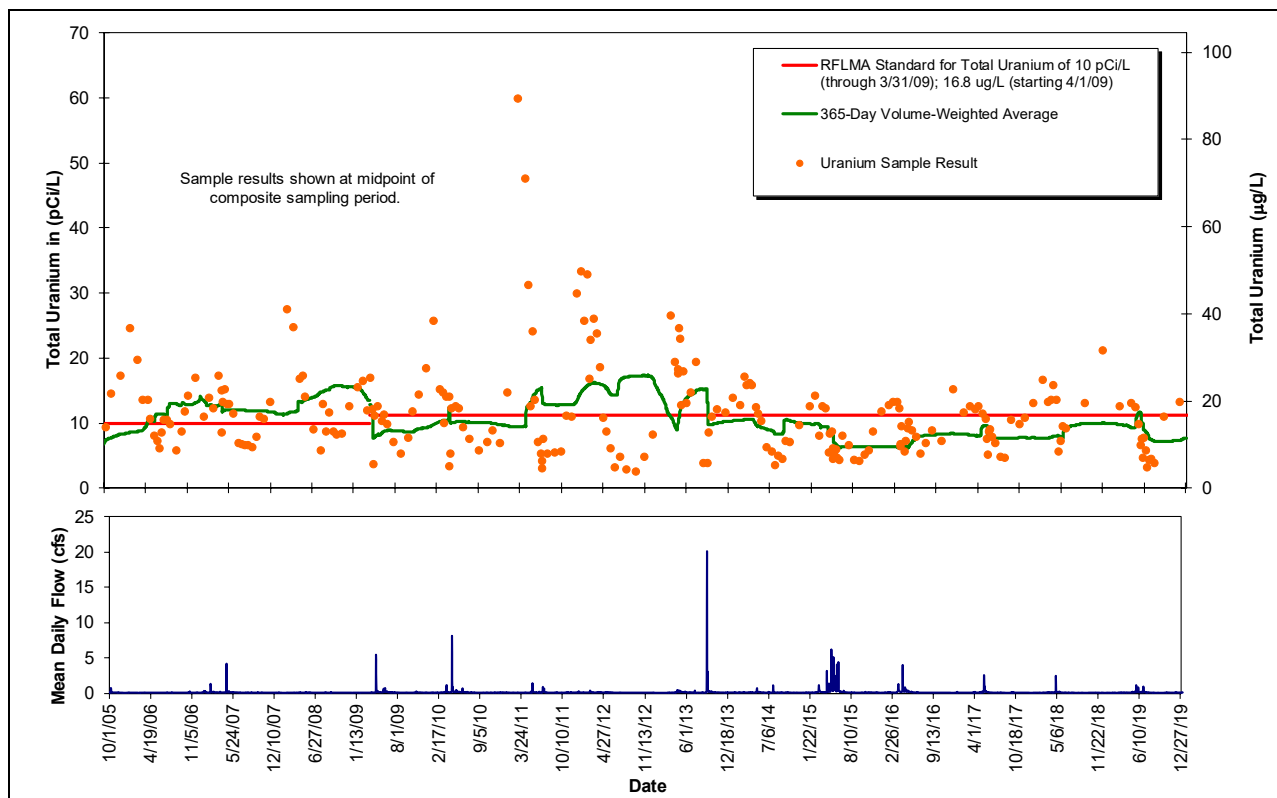
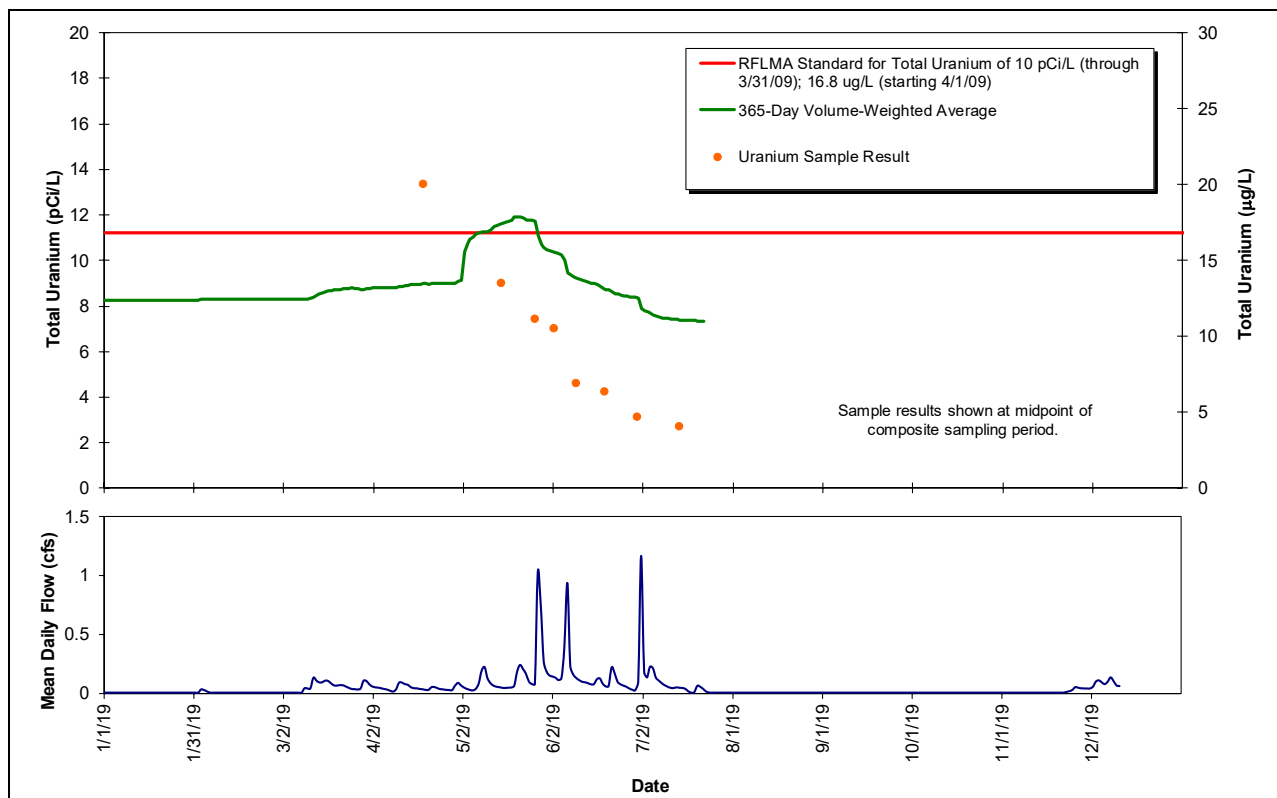
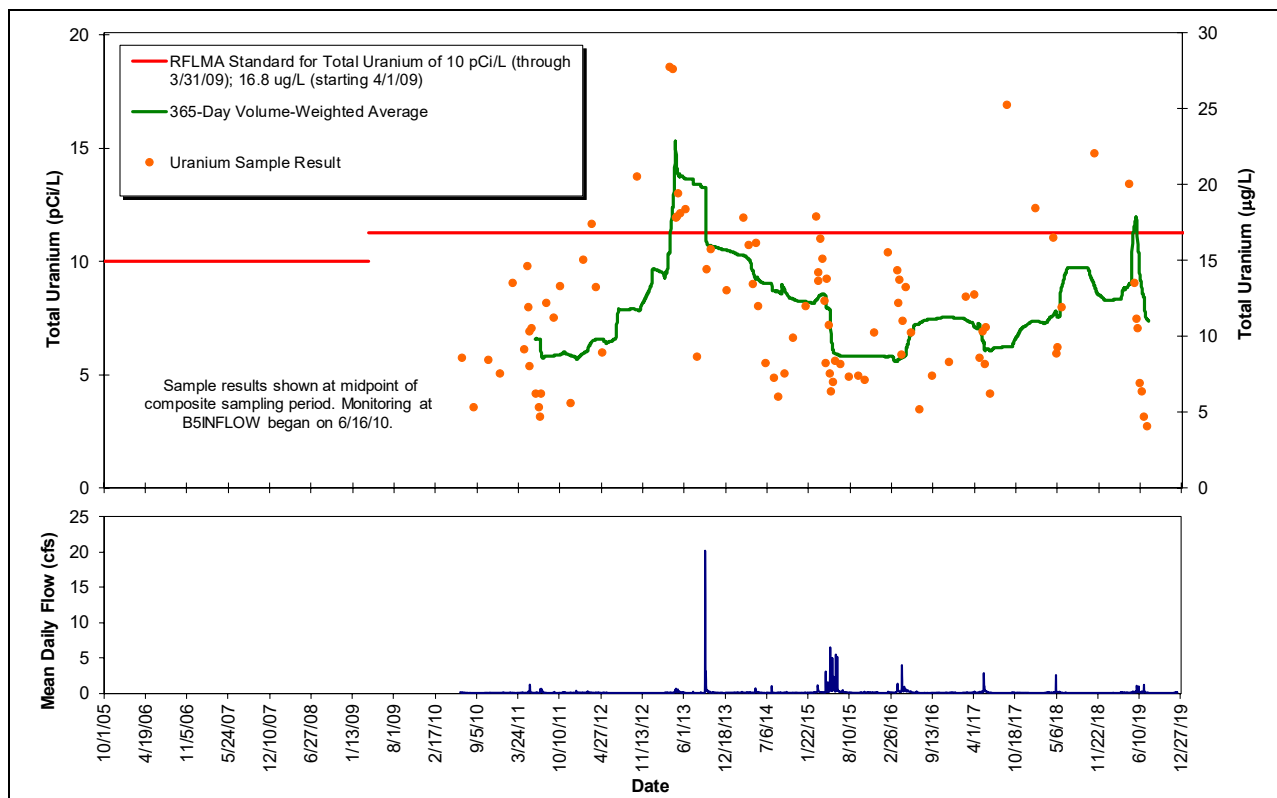


Figure 34. Composite Sample Uranium Results and Rolling 365-Day Averages at GS10: Postclosure



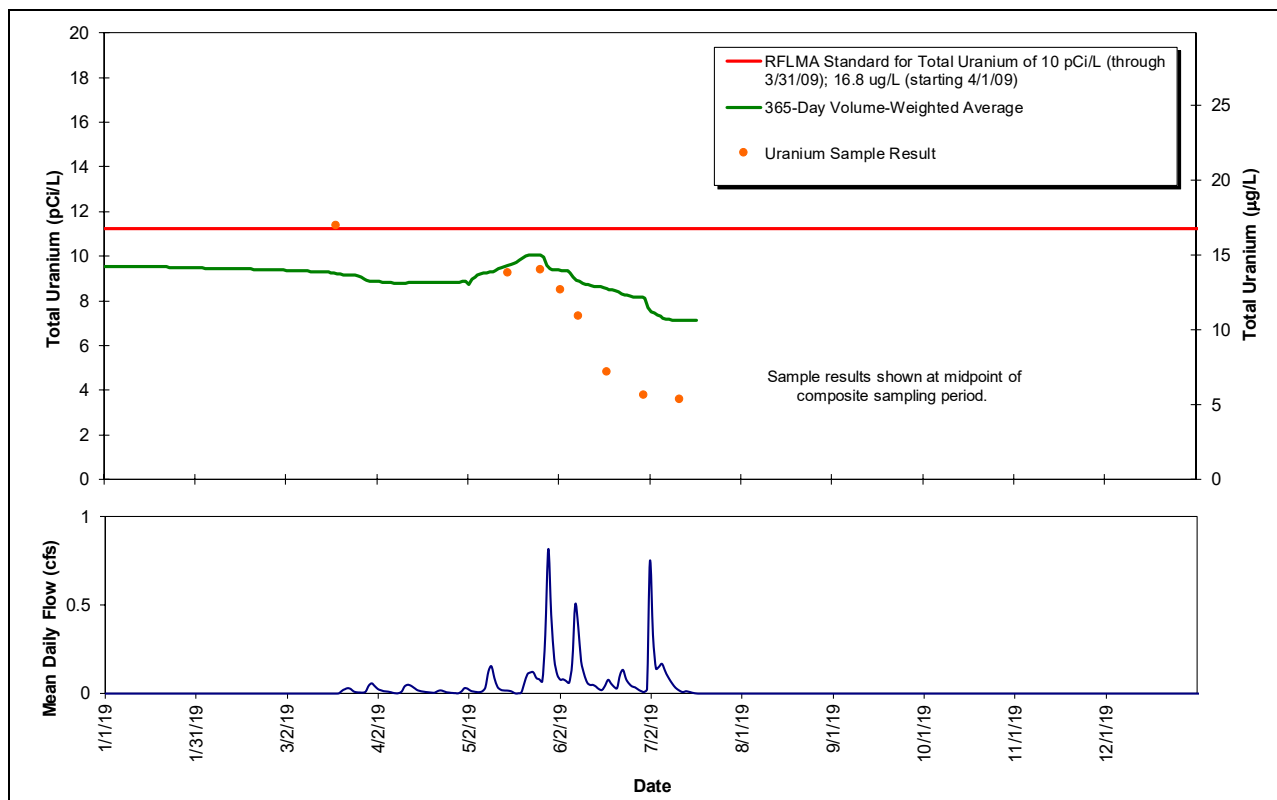
Note:
Analytical results for the composite sample started on July 24, 2019, are pending.

Figure 35. Composite Sample Uranium Results and Rolling 365-Day Averages at B5INFLOW: CY 2019



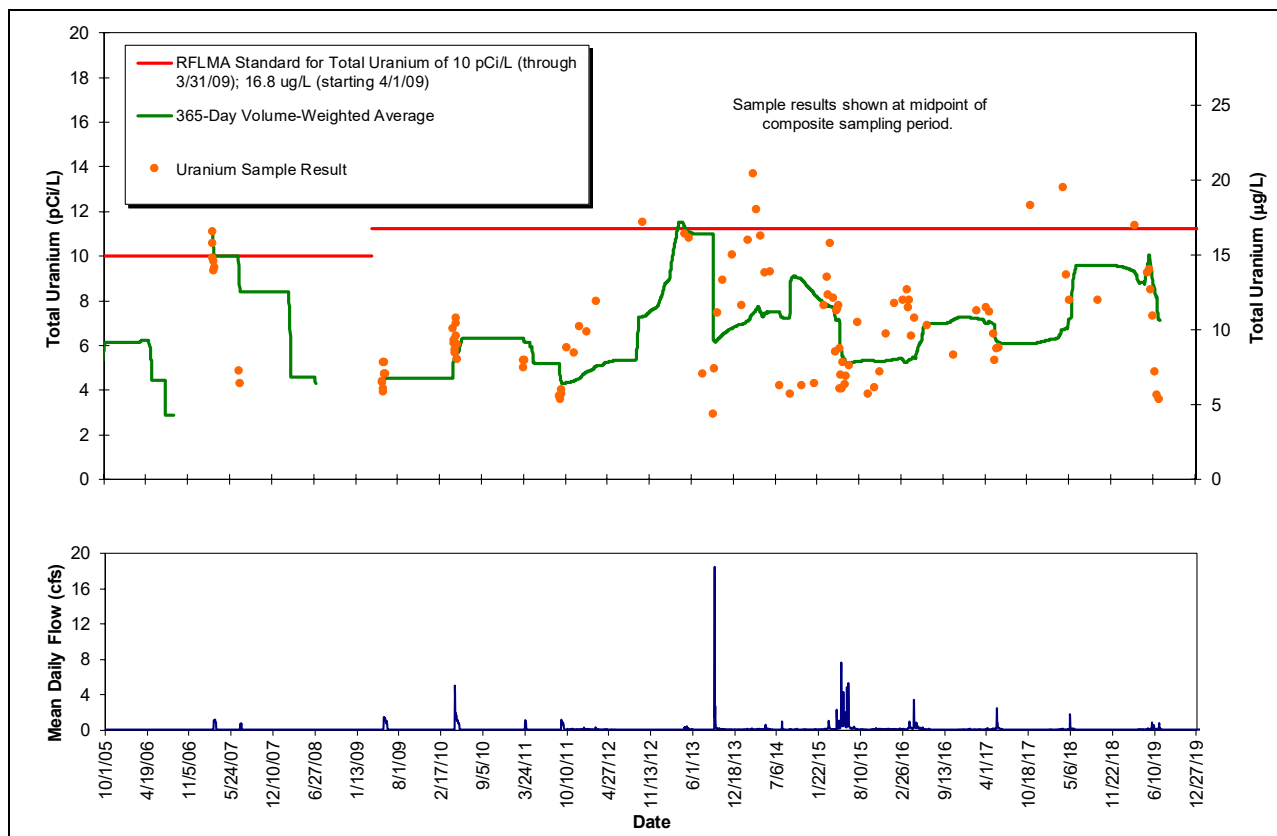
Note:
Analytical results for the composite sample started on July 24, 2019, are pending.

Figure 36. Composite Sample Uranium Results and Rolling 365-Day Averages at B5INFLOW: Postclosure



Note:
Analytical results for the composite sample started on July 19, 2019, are pending.

Figure 37. Composite Sample Uranium Results and Rolling 365-Day Averages at GS08: CY 2019



Note:

Analytical results for the composite sample started on July 19, 2019, are pending.

Figure 38. Composite Sample Uranium Results and Rolling 365-Day Averages at GS08: Postclosure

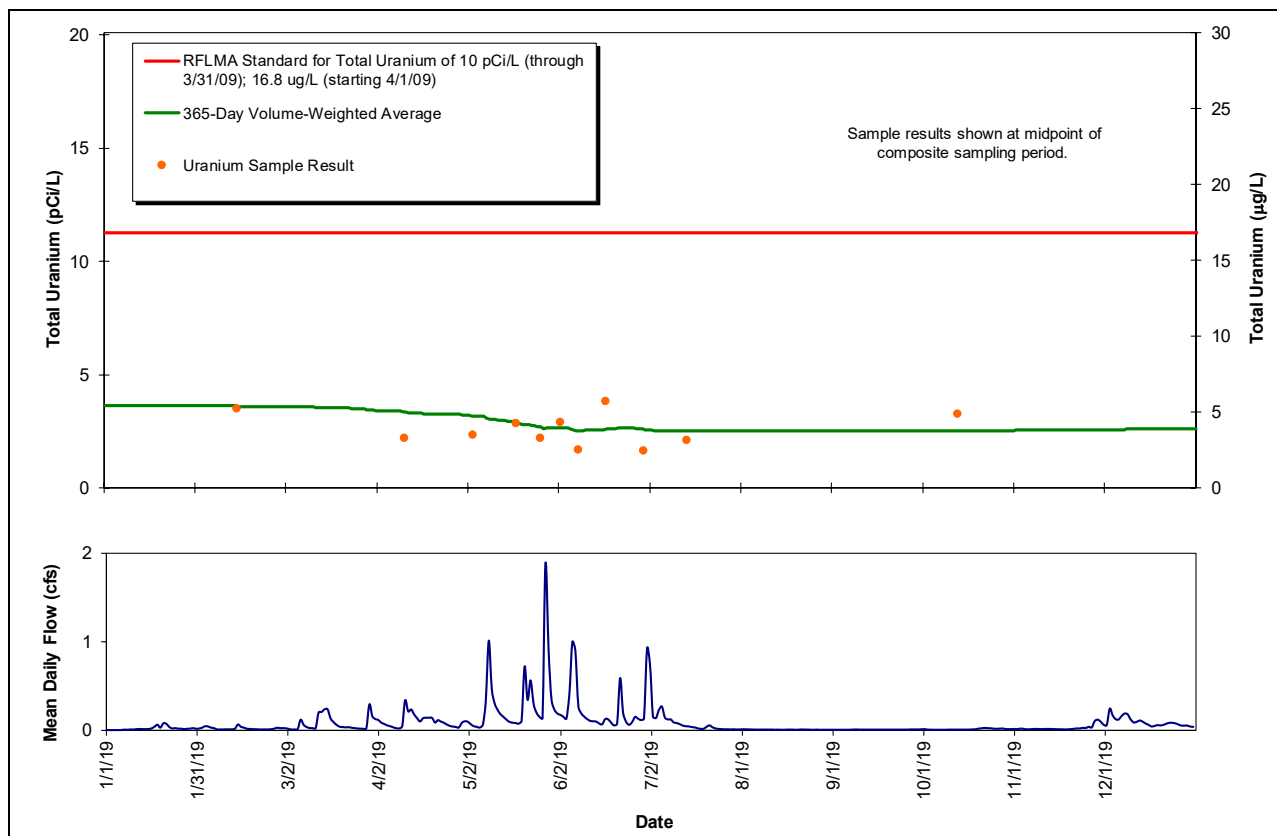


Figure 39. Composite Sample Uranium Results and Rolling 365-Day Averages at SW093: CY 2019

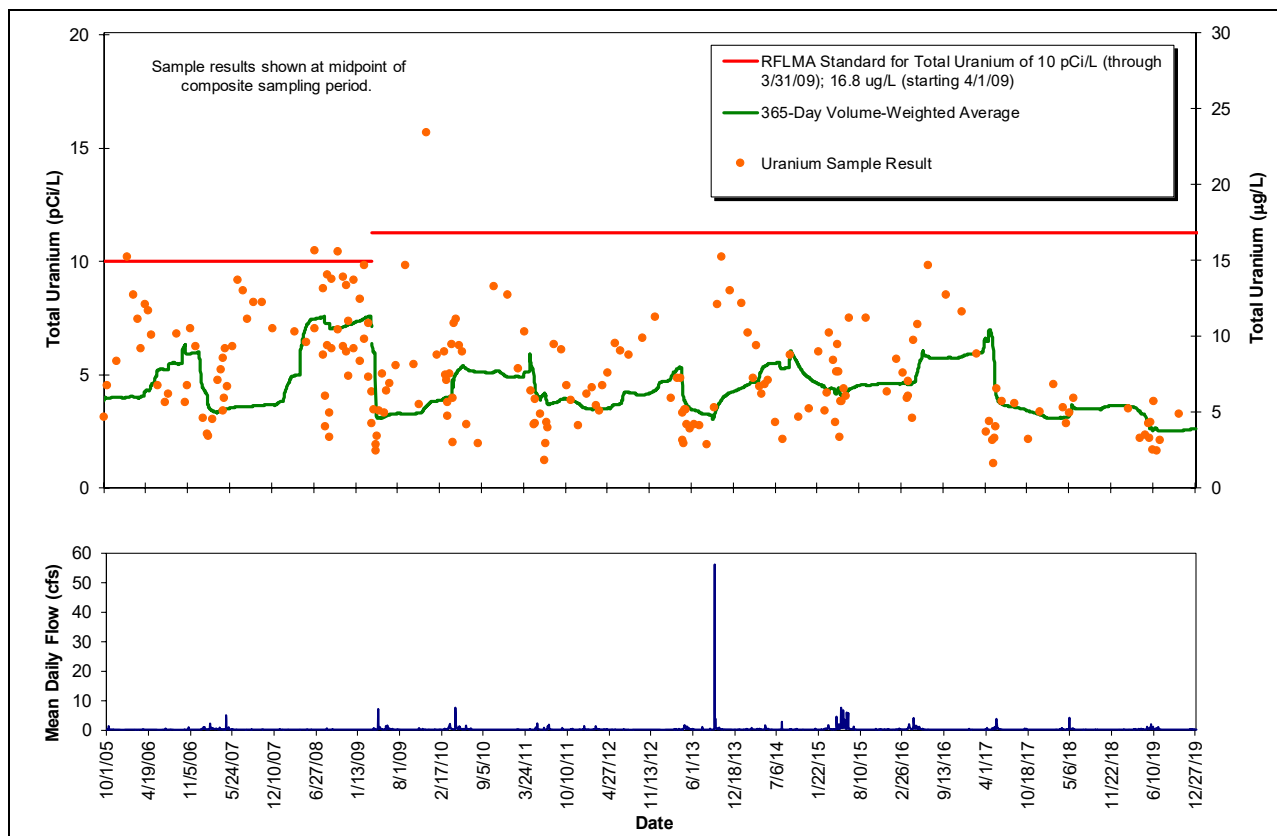


Figure 40. Composite Sample Uranium Results and Rolling 365-Day Averages at SW093: Postclosure

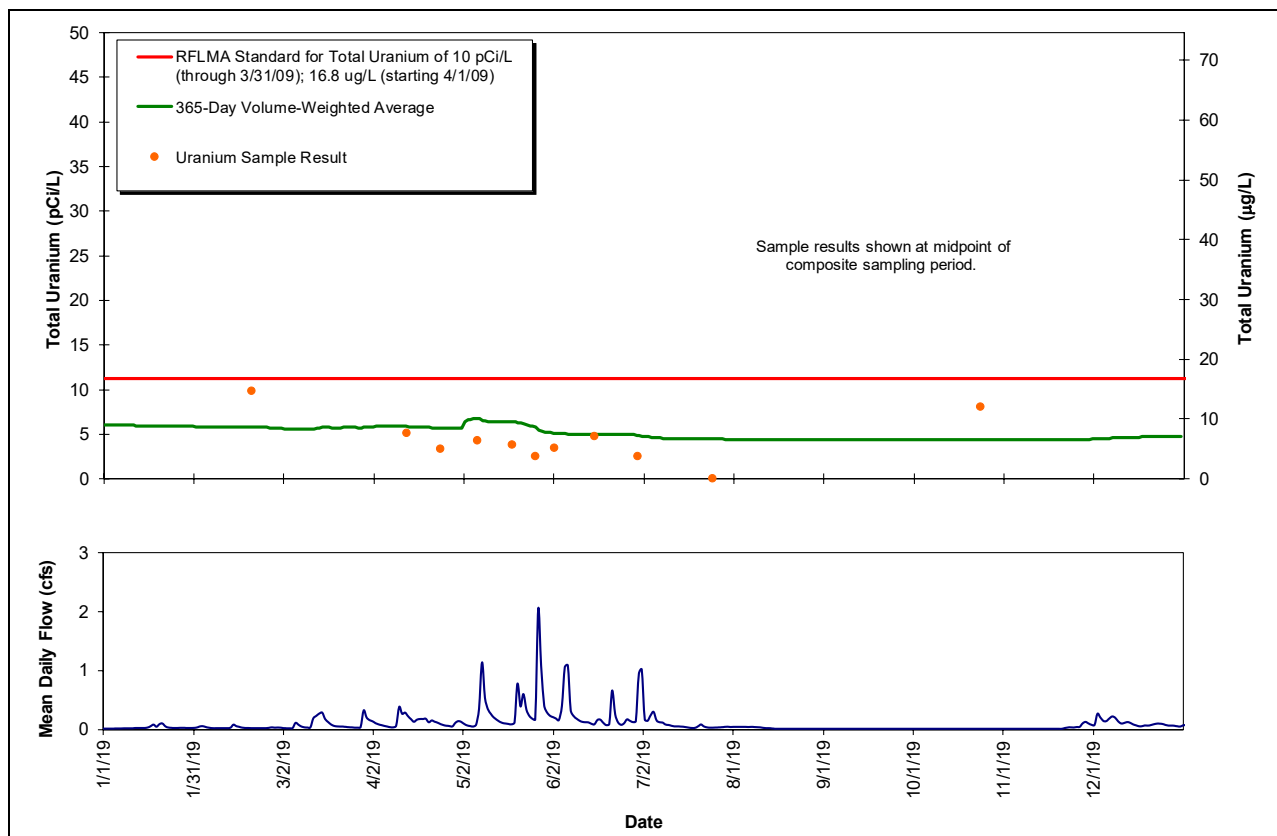


Figure 41. Composite Sample Uranium Results and Rolling 365-Day Averages at GS13: CY 2019

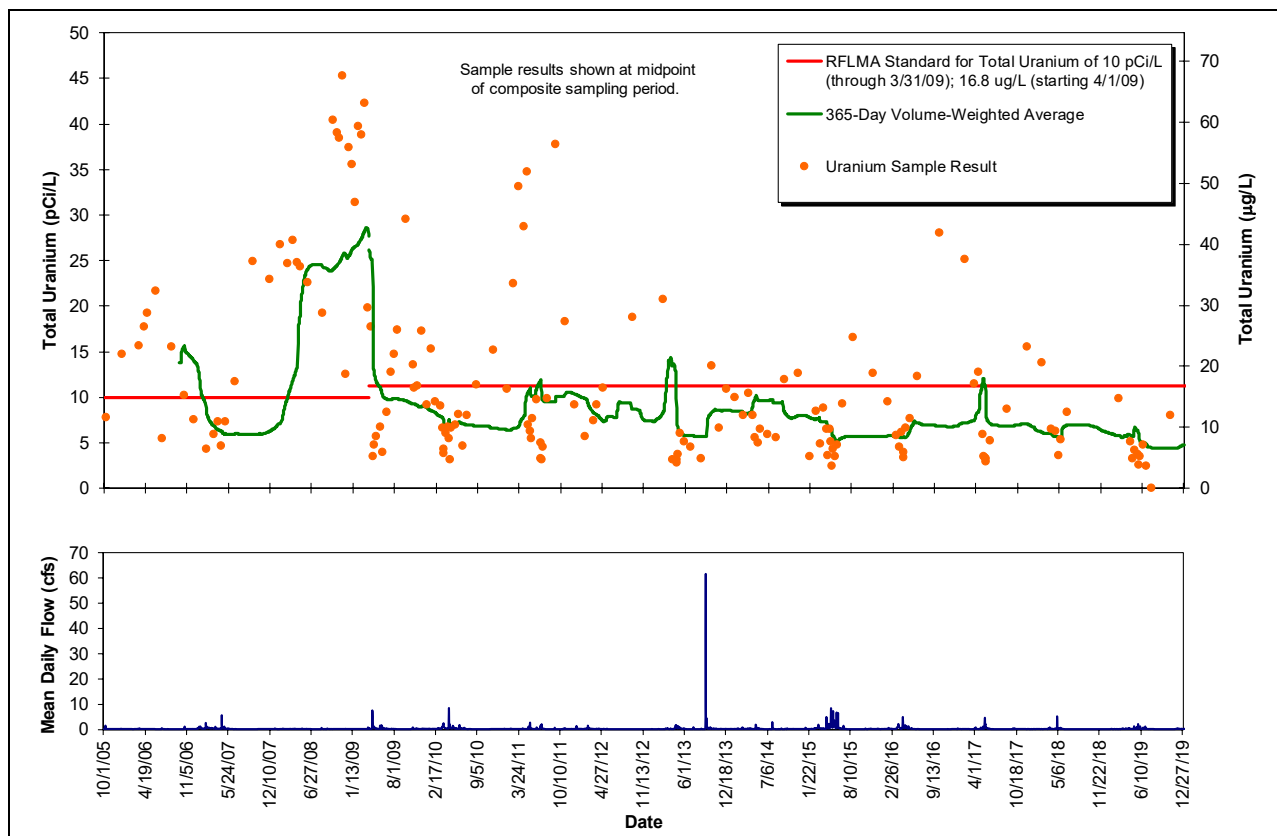
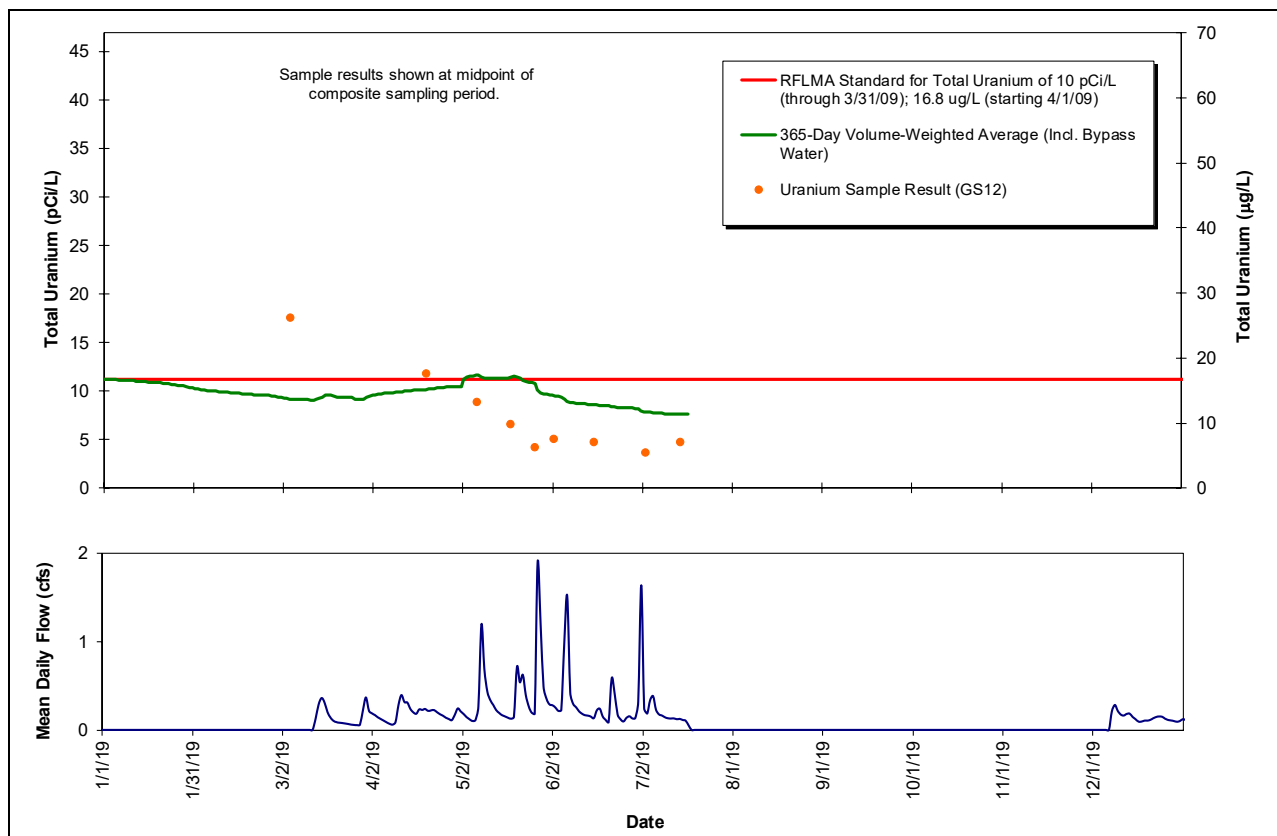
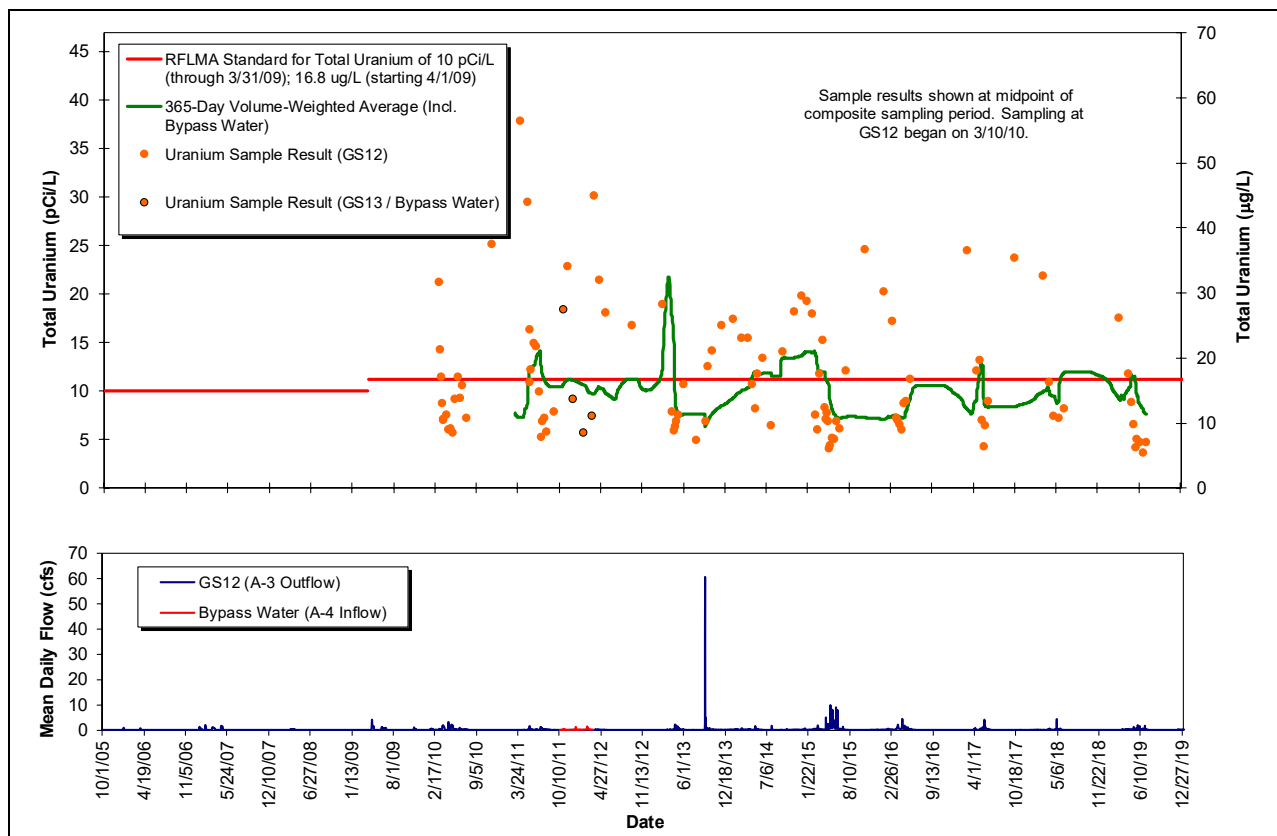


Figure 42. Composite Sample Uranium Results and Rolling 365-Day Averages at GS13: Postclosure



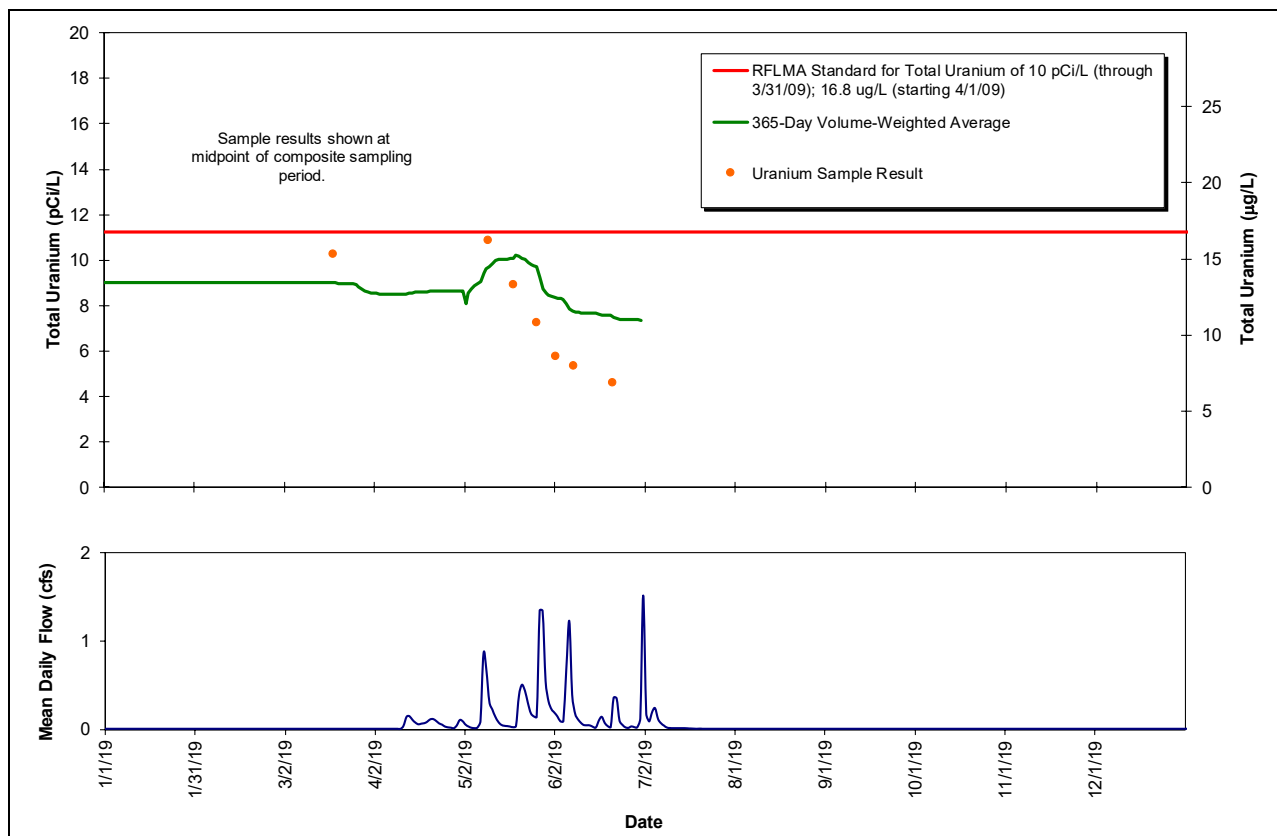
Note:
Analytical results for the composite sample started on July 19, 2019, are pending.

*Figure 43. Composite Sample Uranium Results and Rolling 365-Day Averages at GS12 (A-4 Inflow):
CY 2019*



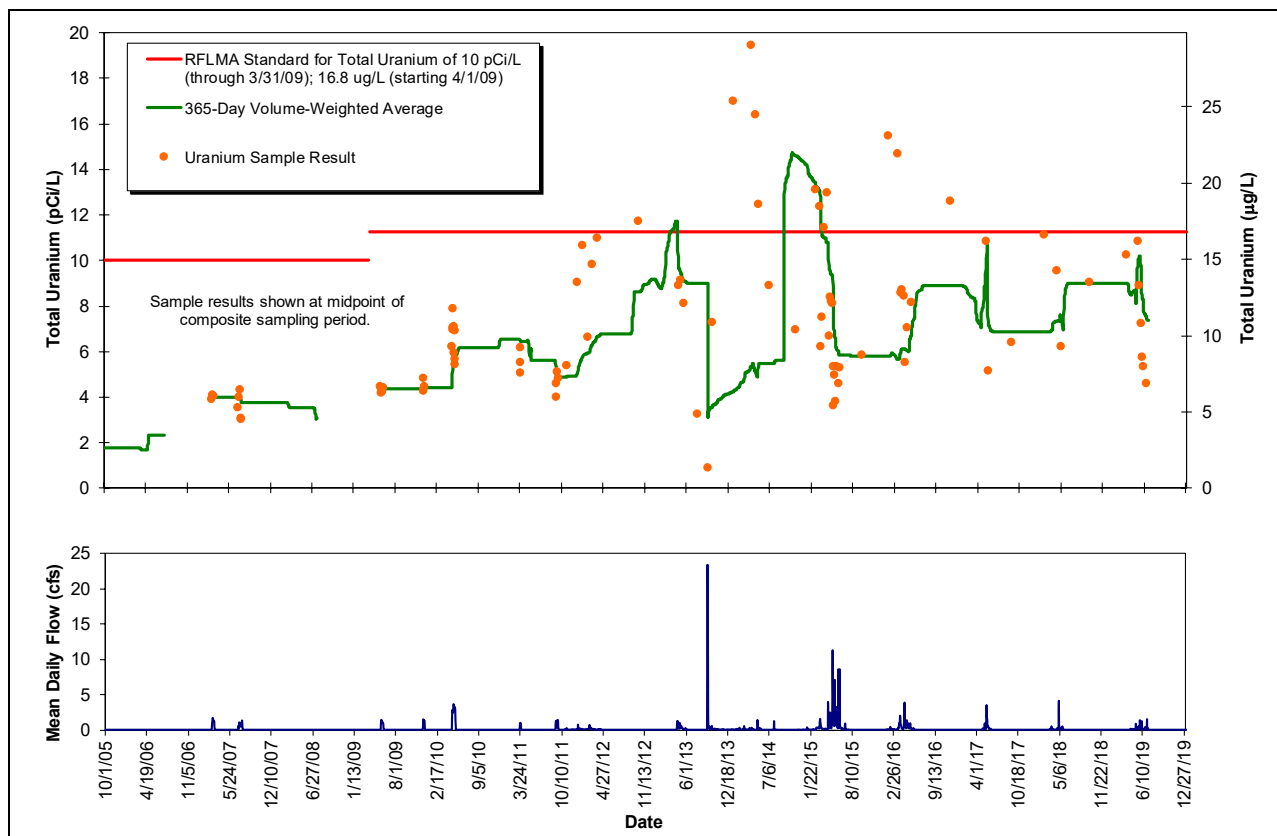
Note:
Analytical results for the composite sample started on July 19, 2019, are pending.

Figure 44. Composite Sample Uranium Results and Rolling 365-Day Averages at GS12 (A-4 Inflow): Postclosure



Note:
Analytical results for the composite sample started on July 2, 2019, are pending.

Figure 45. Composite Sample Uranium Results and Rolling 365-Day Averages at GS11: CY 2019



Note:

Analytical results for the composite sample started on July 2, 2019, are pending.

Figure 46. Composite Sample Uranium Results and Rolling 365-Day Averages at GS11: Postclosure

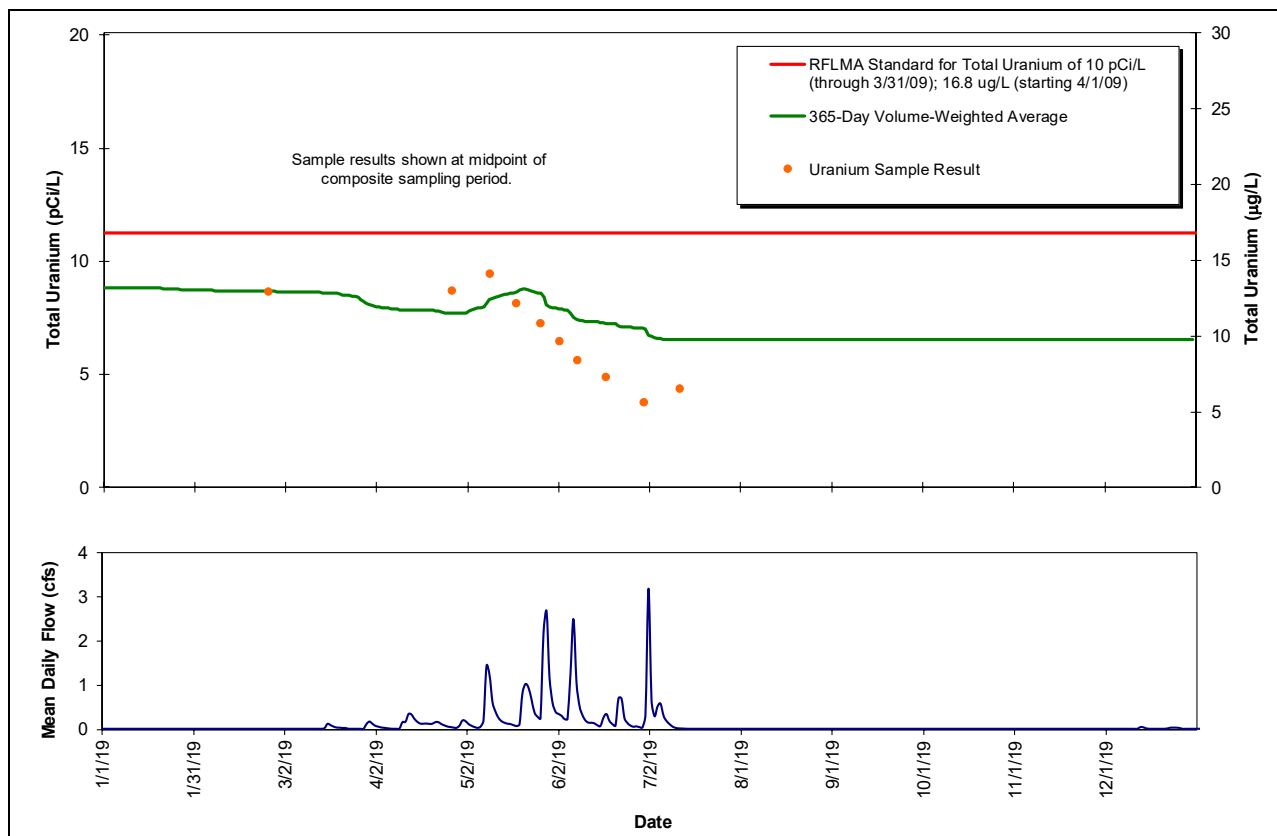


Figure 47. Composite Sample Uranium Results and Rolling 365-Day Averages at WALPOC: CY 2019

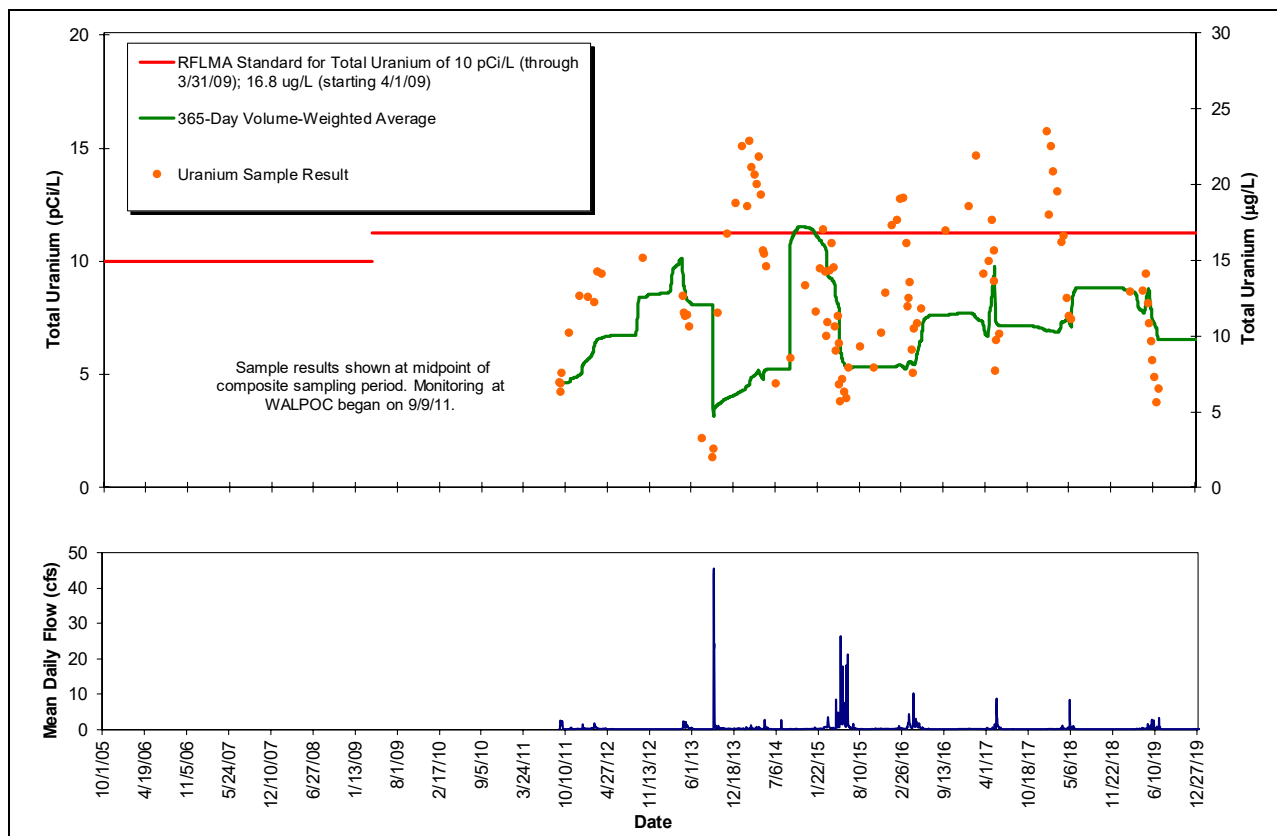
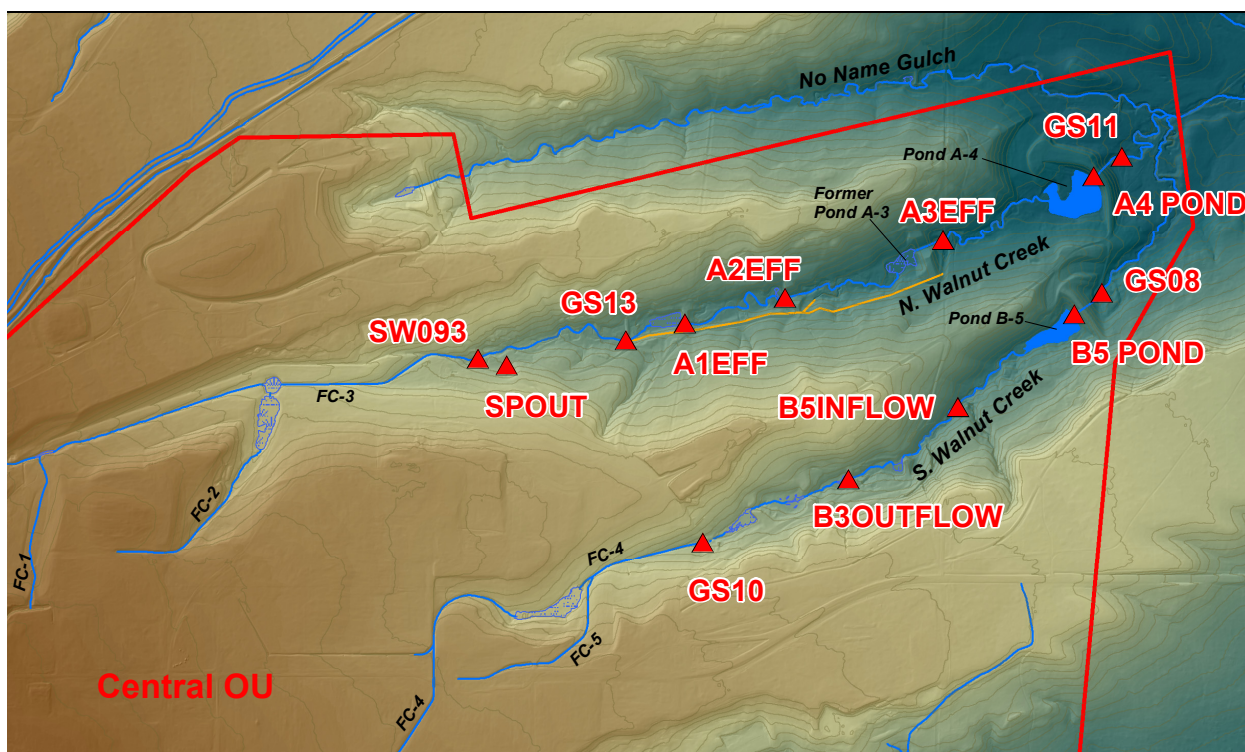


Figure 48. Composite Sample Uranium Results and Rolling 365-Day Averages at WALPOC: Postclosure

3.6 Grab Sampling for Uranium in North and South Walnut Creeks

This monitoring objective is primarily intended to evaluate the transport of uranium in North and South Walnut Creeks by assessing correlations, patterns, variability, and loading. This objective is also intended to help define the relative impact of the Solar Ponds Plume Treatment System (SPPTS) on surface water quality in North Walnut Creek. Samples are currently collected biweekly as grabs. Figure 49 presents the uranium grab sampling locations in North and South Walnut Creeks. Sampling for this monitoring objective at most locations began on January 27, 2010.



Notes:

The orange line shows the location of the A-Series Bypass Pipeline.

A3EFF is collocated with GS12 (A3EFF is the grab sampling location, and GS12 is the automated composite sampling location).

Figure 49. Uranium Grab Sampling Locations in North and South Walnut Creeks

Starting on October 13, 2011, water in North Walnut Creek was diverted around Pond A-3 and former Ponds A-1 and A-2 to support the Dam A-3 breach construction. This diverted water was routed through the A-Series Bypass Pipeline from GS13 to just below Pond A-3 (near A3EFF) until March 21, 2012. During this period, it is assumed that the water quality and quantity were the same when the water entered the pipeline as when it exited the pipeline.¹¹ Therefore, data collected at both GS13 and A3EFF during this period have been combined to effectively summarize water quality *entering* Pond A-4 and not water quality *exiting* Pond A-3.

Table 8 shows summary statistics for the uranium grab sampling in North and South Walnut Creeks. The grab sample results show even more variability than the flow-paced composite results, as expected. Grab samples are generally collected during fair weather, base-flow periods when uranium is more likely to be present at higher concentrations. Continuous flow-paced composite sample results are a better representation of actual longer-term uranium concentrations; by design, automated composite sampling collects samples during all flow conditions, including intense, high-volume runoff periods when uranium concentrations are generally lower.

¹¹ This assumption has been confirmed by grab samples taken at GS13 and A4INFLOW; A4INFLOW is just upstream of Pond A-4.

Table 8. Summary Statistics for Uranium Grab Sampling in North and South Walnut Creeks for the Period Starting January 27, 2010

North Walnut Creek		Uranium (ug/L)			
		Location Code	Average	Sample Count	85th Percentile
Upstream ↓ ↓ ↓ ↓ ↓ ↓	SW093	7.76	243	11.8	7.00
	SPOUT*	47.5	250	64.7	48.0
	GS13	22.1	196	36.8	18.0
	A1EFF	21.8	155	34.7	17.0
	A2EFF	28.5	145	44.8	24.0
	A3EFF (A-4 inflow)	22.4	136	34.8	22.0
	A4 POND	11.3	149	17.0	9.80
Downstream	GS11	13.6	35	17.9	13.0

South Walnut Creek		Uranium (ug/L)			
		Location Code	Average	Sample Count	85th Percentile
Upstream ↓ ↓ ↓	GS10	15.2	245	22.0	15.0
	B3OUTFLOW	16.1	180	23.0	16.0
	B5INFLOW	13.8	175	20.0	13.5
	B5 POND	8.46	147	12.1	7.30
Downstream	GS08	10.2	67	15.0	9.00

Notes:

* The SPPTS effluent sampling location (SPOUT) is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

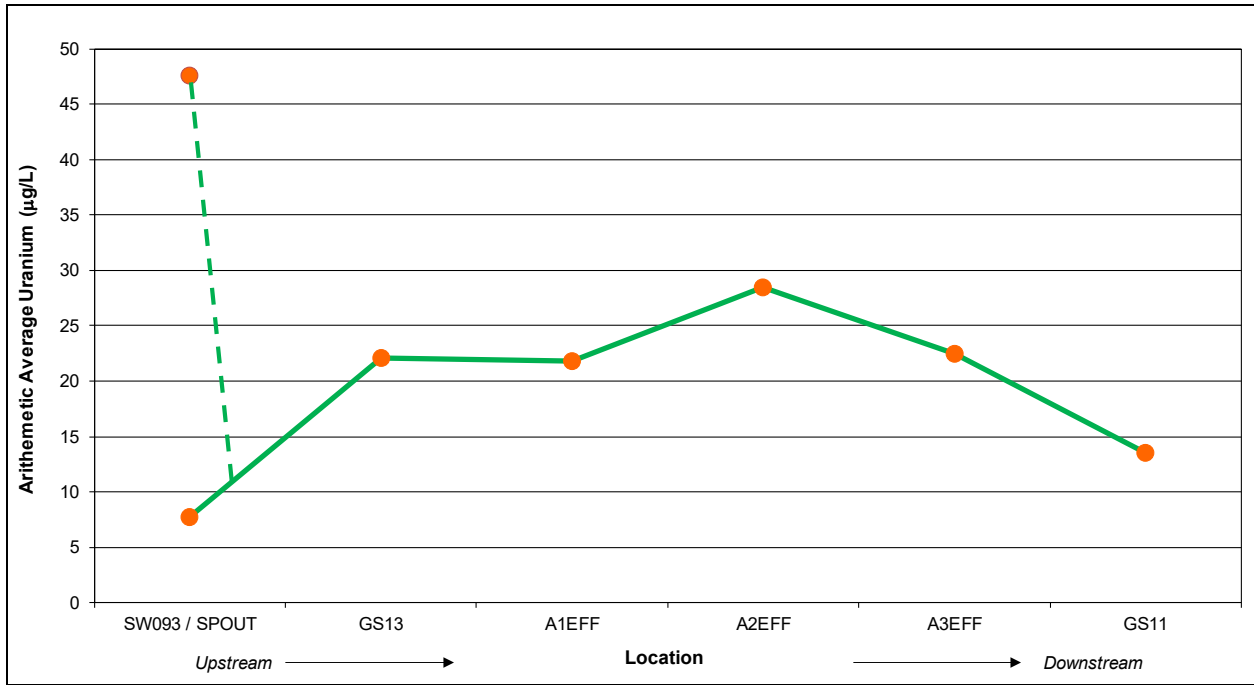
Sample counts vary because some locations are periodically dry.

Summary includes all data available as of February 1, 2020; some recent data are not validated (i.e., are preliminary and subject to revision).

Uranium grab sampling data at GS11 and GS08 start on April 30, 2015. AMP uranium grab sampling at Pond A-4 and Pond B-5 was discontinued on October 31, 2015.

Grab samples do, however, give a good portrayal of spatial water quality variation (i.e., upstream to downstream). Figure 50 and Figure 51 show the spatial variation of average uranium concentrations in North and South Walnut Creeks. Both plots show noticeable variation, with concentrations both increasing and decreasing between locations. As mentioned earlier, an extensive geochemistry study has been completed that examines the transport mechanisms associated with uranium and nitrate at the Site and the effects of the September 2013 flood. The report is available at:

https://www.lm.doe.gov/Rocky_Flats/RFS_Evaluation_of_Water_Quality_Variability_April_2015.pdf. A 2018 update to this report can also be found at the Rocky Flats website (https://www.lm.doe.gov/land/sites/co/rocky_flats/rocky.htm).



Note:

SPPTS effluent (SPOUT) is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Figure 50. Arithmetic Average Uranium Concentration at North Walnut Creek Grab Locations

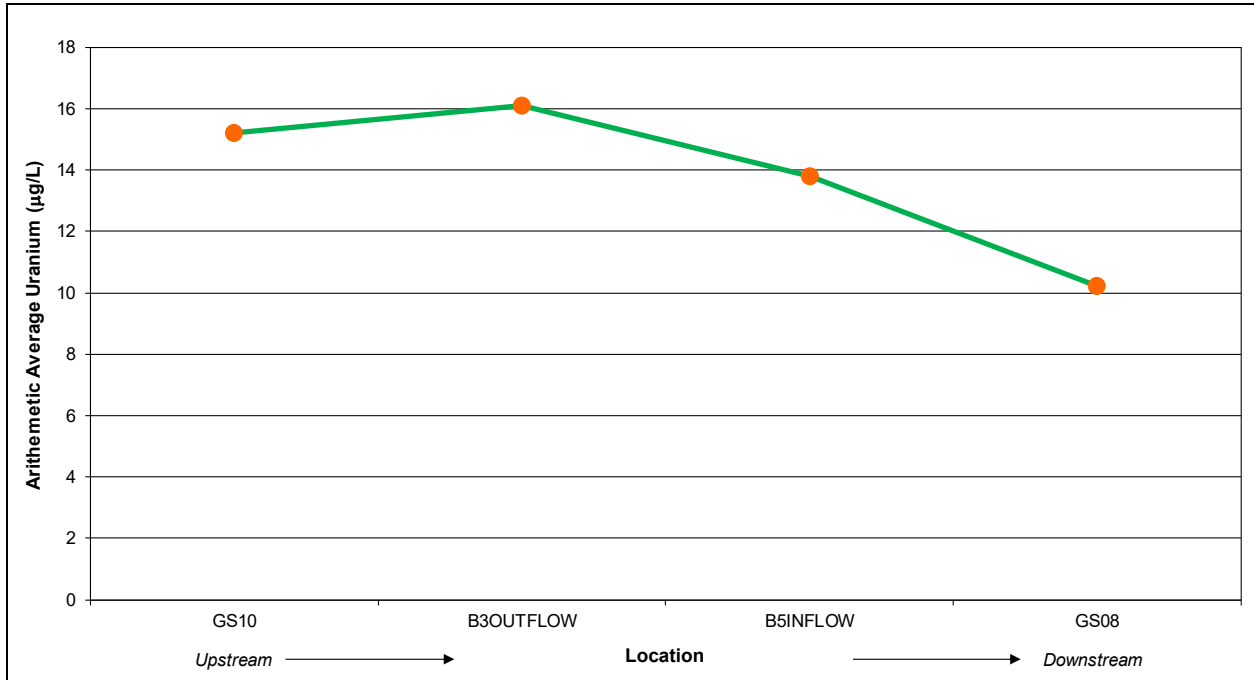
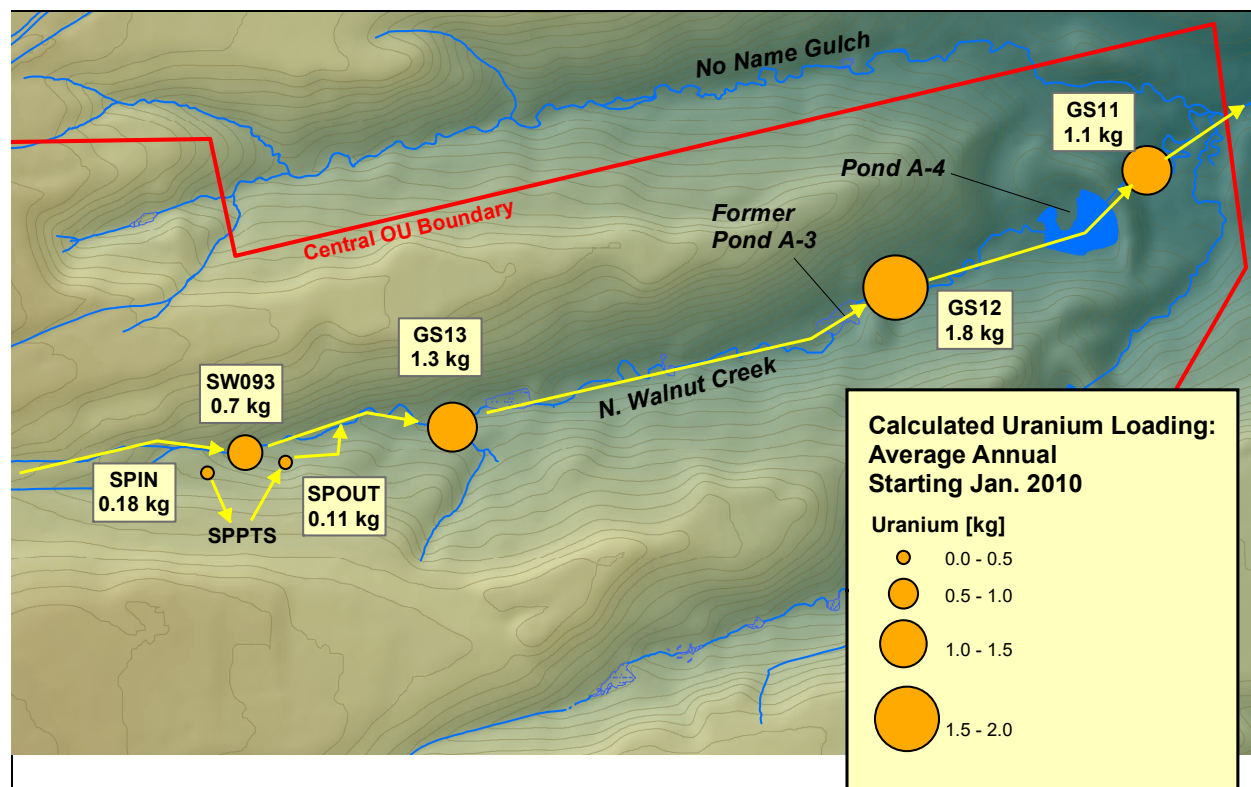


Figure 51. Arithmetic Average Uranium Concentration at South Walnut Creek Grab Locations

The map in Figure 52 shows the calculated average annual uranium loads in North Walnut Creek since January 2010 (using all available sample results as of February 1, 2020).¹² While the SPPTS has removed approximately 40% of the uranium load in the water it collects, the loads at both the SPPTS influent sampling location (SPIN) and the SPPTS effluent sampling location (SPOUT) are small compared to the loads (predominantly natural uranium) in North Walnut Creek. Even though the SPPTS concentrations are higher than the creek concentrations, the much larger creek flow volumes yield significantly larger loads. In fact, the load at SPOUT is estimated to be only 5–10% of the load at GS13.



Notes:

Uranium loads at SW093, GS13, GS12, and GS11 are calculated using results from flow-paced composites (see Section 3.5). Uranium loads at SPIN and SPOUT are calculated using results from grab sampling related to this AMP objective and other treatment system optimization efforts. Arrows indicate general flow routing.

Abbreviation:

kg = kilograms

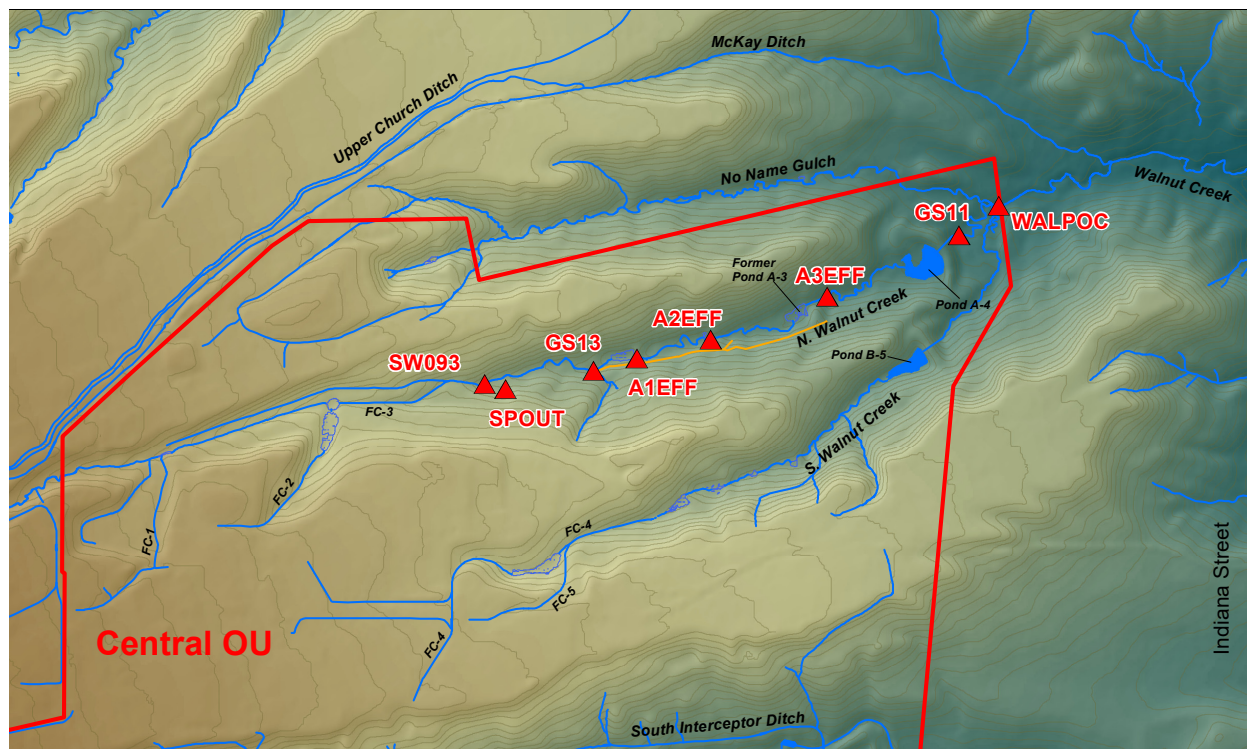
Figure 52. Map Showing Calculated Uranium Loads in North Walnut Creek Since January 2010

3.7 Grab Sampling for Nitrate + Nitrite as Nitrogen in Walnut Creek

This monitoring objective is primarily intended to evaluate the transport of nitrate in North Walnut Creek and Walnut Creek by assessing correlations, patterns, variability, and loading. This objective is also intended to help define the relative impacts of the SPPTS on surface water

¹² Uranium loads are only calculated for locations with flow volume measurement. Grab sample uranium concentrations are used for locations SPIN and SPOUT; continuous flow-paced sample uranium concentrations are used for SW093, GS13, GS12, and GS11.

quality in North Walnut Creek. Samples are currently collected biweekly as grabs (Figure 53). Sampling for this monitoring objective at most locations began on January 27, 2010. WALPOC started operational testing in September 2011.



Notes:

The orange line shows the location of the A-Series Bypass Pipeline. A3EFF is collocated with GS12 (A3EFF is the grab sampling location, and GS12 is the automated composite sampling location).

Figure 53. Nitrate + Nitrite as Nitrogen Grab Sampling Locations in North Walnut and Walnut Creeks

This evaluation is performed for three different time periods in recognition of the WALPOC operational testing start in September 2011, and the implementation of successful nitrate treatment at the SPPTS in late October 2016. They are:

- January 27, 2010, to November 1, 2016
- September 9, 2011, to November 1, 2016
- November 1, 2016, to the present

Starting on October 13, 2011, water in North Walnut Creek was diverted around Pond A-3 and former Ponds A-1 and A-2 to drain Pond A-3 in preparation for the Dam A-3 breach. This diverted water was routed through the A-Series Bypass Pipeline from GS13 to just below Pond A-3 (near A3EFF) until March 21, 2012. During this period, it is assumed that the water quality and quantity were the same when the water entered the pipeline as when it exited the pipeline.¹³ Therefore, data collected at both GS13 and A3EFF during this period have been

¹³ This assumption has been confirmed by grab samples taken at GS13 and A4INFLOW; A4INFLOW is just upstream of Pond A-4.

combined to effectively summarize water quality *entering* Pond A-4 and not water quality *exiting* Pond A-3.

Table 9 shows summary statistics for the nitrate + nitrite as nitrogen grab sampling in North Walnut Creek for the period January 27, 2010, to November 1, 2016. These grab samples are collected during fair weather, base-flow periods when nitrate is more likely to be present at higher concentrations (because the source is groundwater). These grab samples also give a good portrayal of spatial nitrate variation (i.e., upstream to downstream). Figure 54 shows the spatial variation (upstream to downstream) of average nitrate concentrations in North Walnut Creek. The plot shows a measurable increase between SW093 (upstream of Solar Ponds influence) and GS13 (downstream of Solar Ponds influence). However, farther downstream, the reduction of nitrate through natural processes is apparent.

Table 9. Summary Statistics for Nitrate + Nitrite as Nitrogen Grab Sampling in North Walnut Creek for January 27, 2010, to November 1, 2016

North Walnut Creek		Nitrate+Nitrite as N (mg/L)			
	Location Code	Average	Sample Count	85th Percentile	50th Percentile
Upstream	SW093	7.42	163	13.4	3.40
↓	SPOUT*	248	164	420	260
↓	GS13	28.8	149	50.0	26.0
↓	A1EFF	21.3	106	40.0	19.0
↓	A2EFF	17.5	102	36.0	15.0
↓	A3EFF (A-4 inflow)	14.9	102	30.7	12.0
Downstream	GS11	6.20	72	10.1	6.70

Notes:

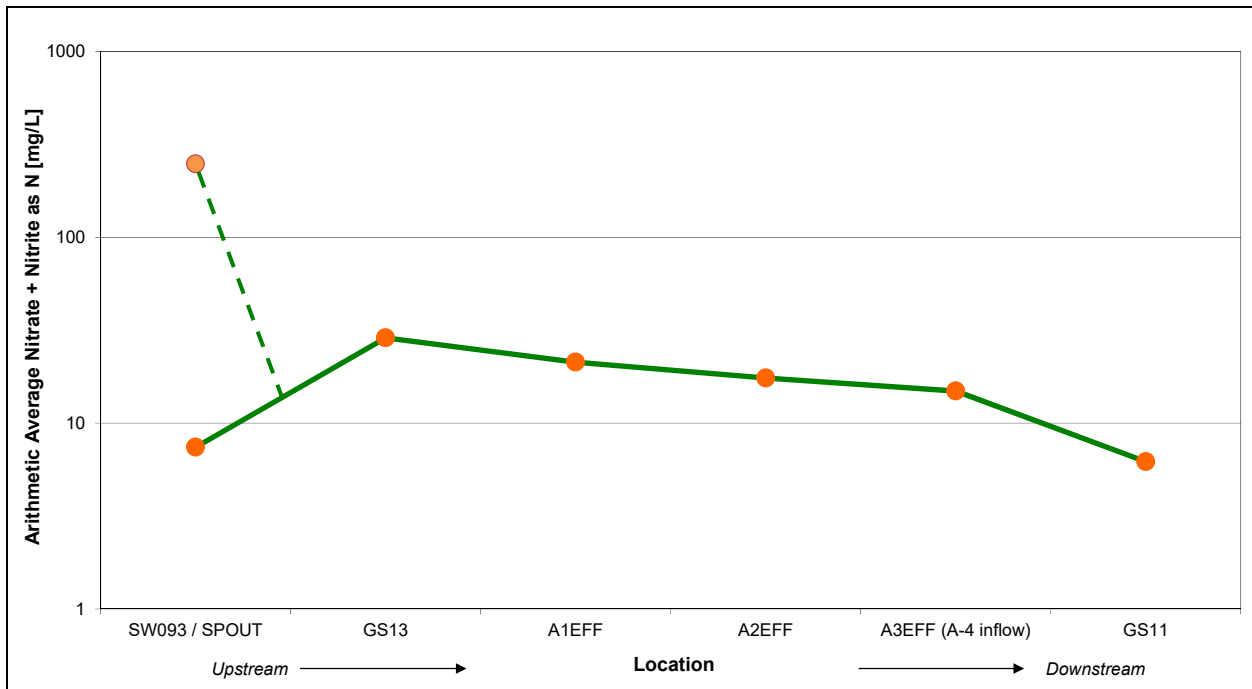
* SPOUT is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Sample counts vary because some locations are periodically dry.

Data for the period May 1, 2010, to March 28, 2011, at GS11 include results from short-duration composite samples collected during batch-discharge operations.

Abbreviation:

mg/L = milligrams per liter



Notes:

Concentrations are shown on a logarithmic scale.

SPOUT is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Data for May 1, 2010, to March 28, 2011, at GS11, include results from short-duration composite samples collected during batch-discharge pond operations.

Abbreviation:

mg/L = milligrams per liter

Figure 54. Arithmetic Average Nitrate + Nitrite as Nitrogen Concentration at North Walnut Creek and Walnut Creek Grab Locations for January 27, 2010, to November 1, 2016

Table 10 shows summary statistics for the nitrate + nitrite as nitrogen grab sampling in North Walnut Creek and lower Walnut Creek (WALPOC) for September 1, 2011, to November 1, 2016. Figure 55 shows the spatial variation (upstream to downstream) of average nitrate concentrations in North Walnut Creek for this period. As for January 27, 2010, to November 1, 2016, the plot shows a measurable increase between SW093 (upstream of Solar Ponds influence) and GS13 (downstream of Solar Ponds influence). However, farther downstream, the reduction of nitrate through natural processes is apparent.

Table 10. Summary Statistics for Nitrate + Nitrite as Nitrogen Grab Sampling in North Walnut Creek and Walnut Creek for September 1, 2011, to November 1, 2016

North Walnut Creek		Nitrate+Nitrite as N (mg/L)			
	Location Code	Average	Sample Count	85th Percentile	50th Percentile
Upstream	SW093	7.67	122	14.8	3.10
↓	SPOUT*	300	114	440	310
↓	GS13	31.3	113	52.0	26.0
↓	A1EFF	25.1	71	42.3	21.0
↓	A2EFF	20.0	75	39.0	17.5
↓	A3EFF (A-4 inflow)	16.0	56	30.4	16.0
↓	GS11	6.68	59	10.8	7.15
Downstream	WALPOC	2.77	83	5.73	2.50

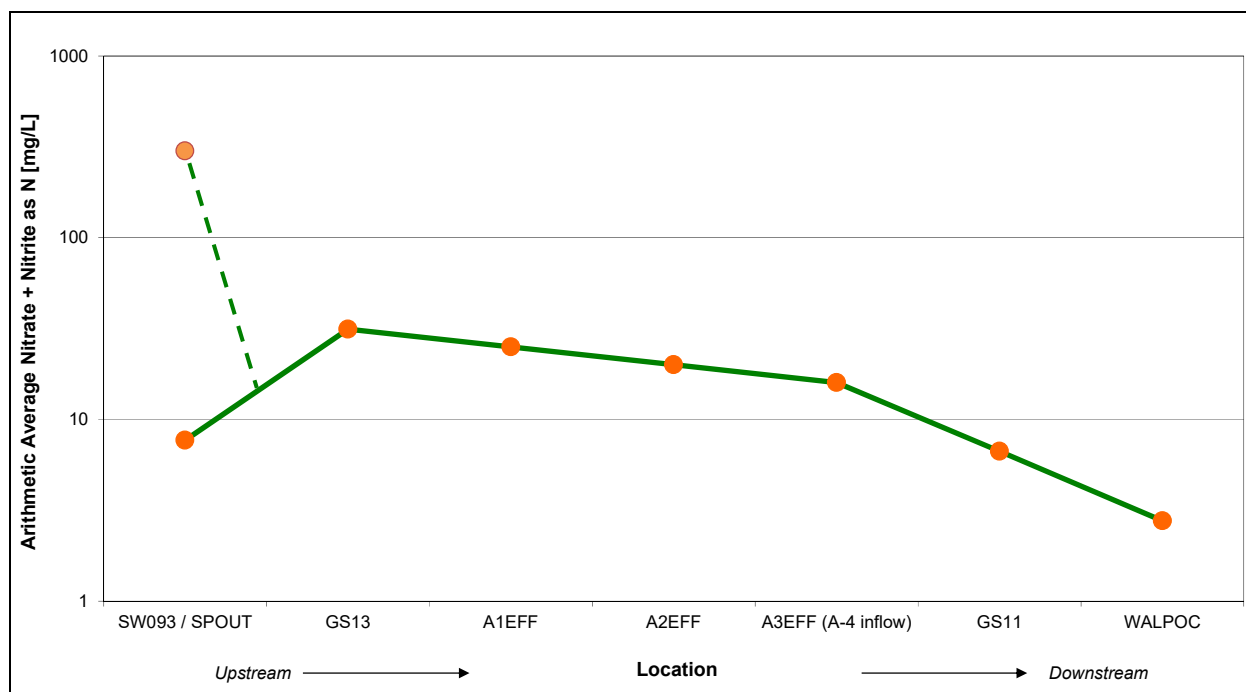
Notes:

* SPOUT is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Sample counts vary because some locations are periodically dry.

Abbreviation:

mg/L = milligrams per liter



Notes:

Concentrations are shown on a logarithmic scale.

SPOUT is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Abbreviation:

mg/L = milligrams per liter

Figure 55. Arithmetic Average Nitrate + Nitrite as Nitrogen Concentration at North Walnut Creek and Walnut Creek Grab Locations for September 1, 2011, to November 1, 2016

Table 11 shows summary statistics for the nitrate + nitrite as nitrogen grab sampling in North Walnut Creek and lower Walnut Creek (WALPOC) since November 1, 2016 (using all sample results available as of February 1, 2020). Figure 56 shows the spatial variation (upstream to downstream) of average nitrate concentrations for this time period.

The positive effects of the successful optimization of nitrate treatment at the SPPTS can clearly be seen in the data. Average concentrations at every location except GS13 are below 10 milligrams per liter (mg/L) nitrate + nitrite as nitrogen. As for the previously discussed periods, the plot shows a measurable increase between SW093 (upstream of Solar Ponds influence) and GS13 (downstream of Solar Ponds influence). However, farther downstream, the reduction of nitrate through natural processes is apparent.

Table 11. Summary Statistics for Nitrate + Nitrite as Nitrogen Grab Sampling in North Walnut Creek and Walnut Creek for November 1, 2016, to Present

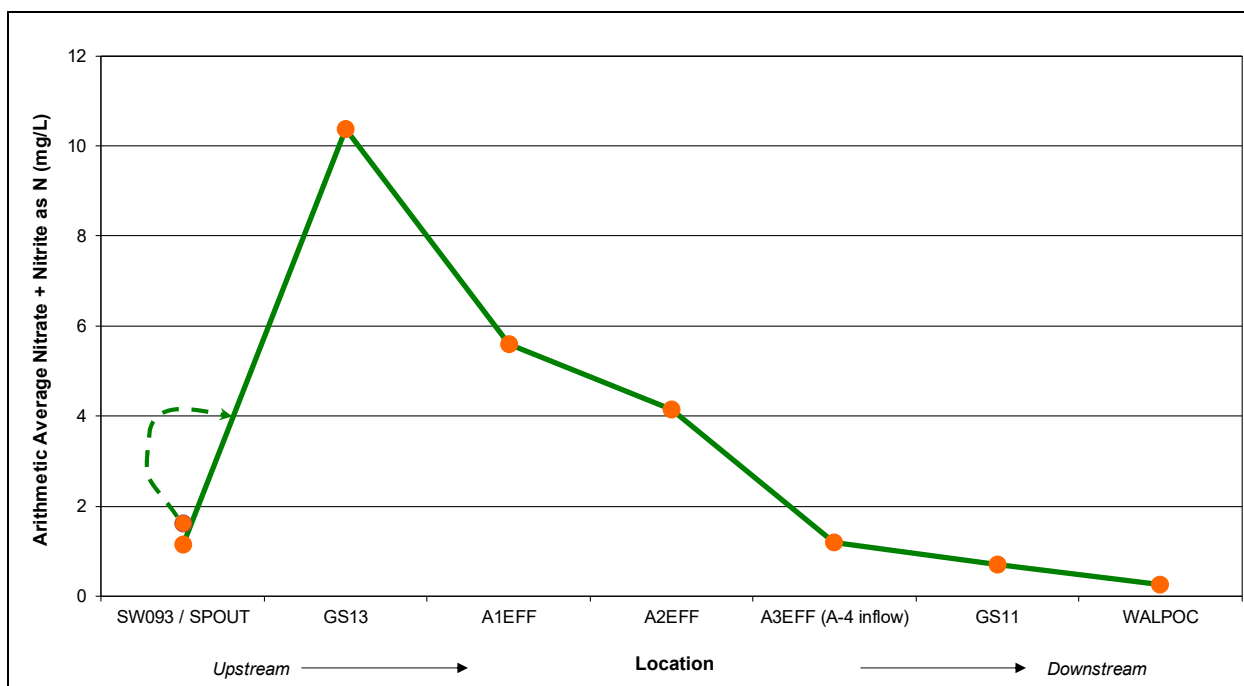
North Walnut Creek		Nitrate+Nitrite as N (mg/L)			
		Location Code	Average	Sample Count	85th Percentile
Upstream ↓ ↓ ↓ ↓ ↓ ↓	SW093	1.17	76	2.00	0.80
	SPOUT*	1.63	78	0.16	0.01
	GS13	10.4	53	18.2	8.00
	A1EFF	5.61	45	8.9	4.90
	A2EFF	4.14	40	7.7	2.85
	A3EFF (A-4 inflow)	1.20	33	3.46	0.09
	GS11	0.70	24	1.43	0.13
Downstream	WALPOC	0.26	39	0.51	0.07

Notes:

* SPOUT is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Sample counts vary because some locations are periodically dry.

Summary includes all data available as of February 1, 2020; some recent data are not validated (i.e., are preliminary and subject to revision).



Notes:

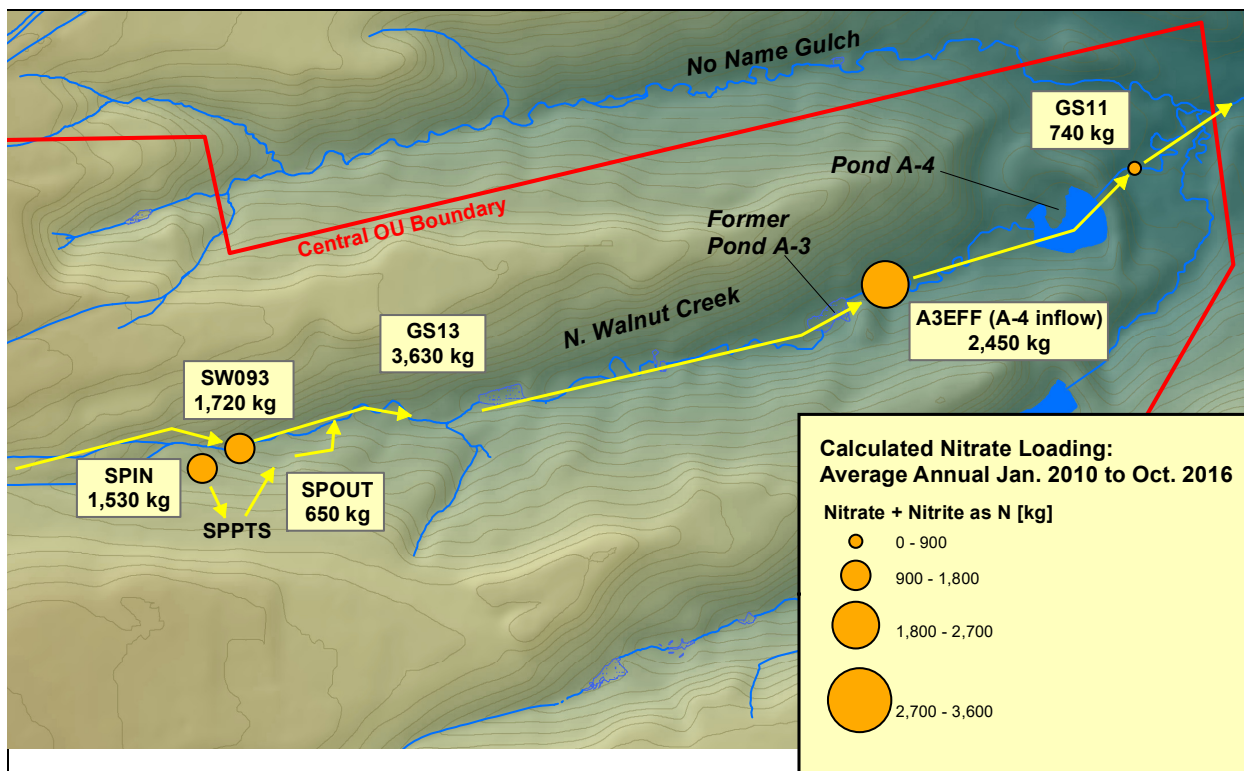
SPOUT is not in North Walnut Creek but flows into a belowground discharge gallery south of North Walnut Creek between monitoring locations SW093 and GS13.

Summary includes all data available as of February 1, 2020; some recent data are not validated (i.e., are preliminary and subject to revision).

Figure 56. Arithmetic Average Nitrate + Nitrite as Nitrogen Concentration at North Walnut Creek and Walnut Creek Grab Locations for November 1, 2016, to Present

The map in Figure 57 shows the calculated average annual nitrate + nitrite as nitrogen loads in North Walnut Creek for the period January 2010 to October 2016.¹⁴ Although the SPPTS removed approximately 58% of the nitrate load in the water it collected during this time frame, the loads at both the system influent (SPIN) and effluent (SPOUT) are only a portion of the loads in North Walnut Creek. As with uranium, the SPPTS nitrate concentrations are higher than the creek concentrations, but the much larger creek flow volumes yield significantly larger loads. In fact, the nitrate load at SPOUT is estimated to be only about 18% of the load in North Walnut Creek at GS13.

¹⁴ Loads are calculated only for locations with flow volume measurement.



Notes:

Loads at SW093, GS13, and GS11 are calculated using results from flow-paced composites (Section 3.5). Loads at A3EFF are calculated using grab sample results and flow measurement from GS12 (colocated with A3EFF). Loads at SPIN and SPOUT are calculated using results from grab sampling related to this AMP objective and other treatment system optimization efforts.

Arrows indicate general flow routing.

Abbreviation:

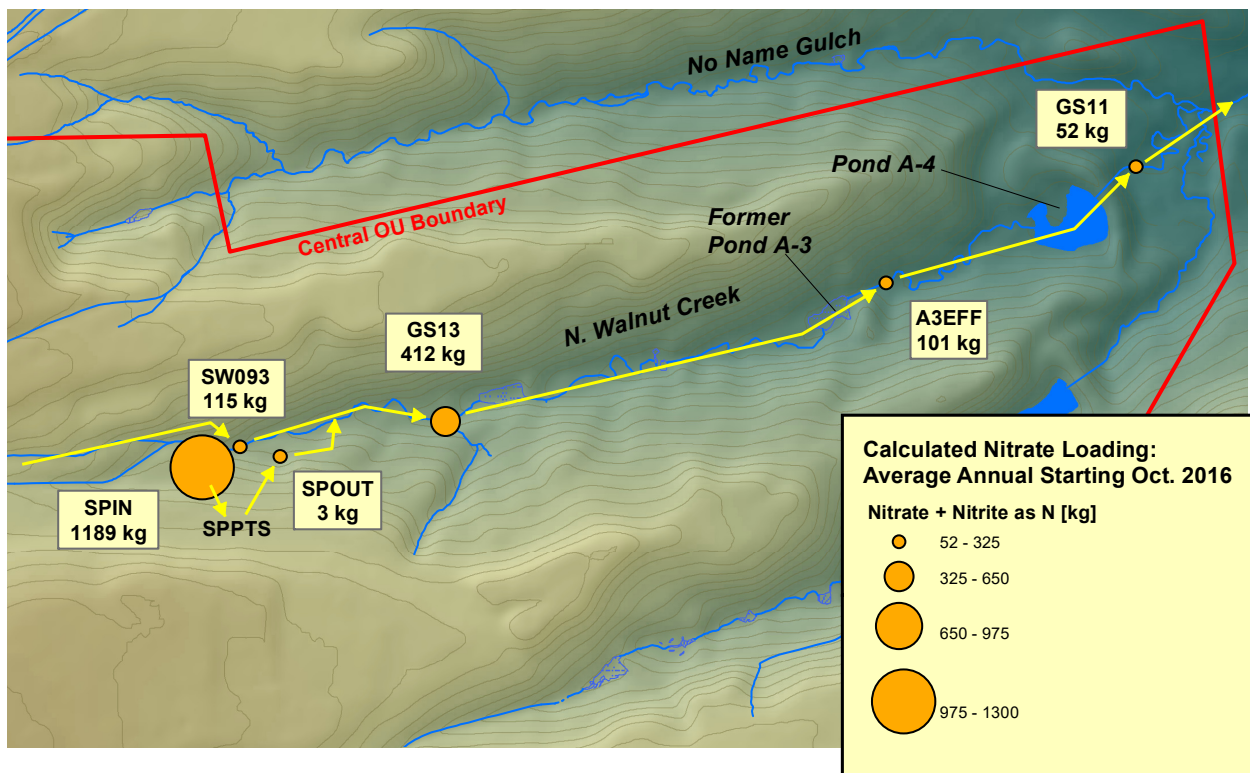
kg = kilograms

Figure 57. Map Showing Calculated Nitrate + Nitrite as Nitrogen Loads in North Walnut Creek: January 2010 to October 2016

It should be noted, however, that the grab samples collected in the creek are likely biased toward higher concentrations since they are generally collected during base-flow periods. In other words, high-volume runoff events with relatively lower concentrations are underrepresented in the average creek concentrations calculated from grab sample results. Therefore, the amount of nitrate + nitrite as nitrogen at creek locations could be overestimated. Assuming this is the case, the relative contribution from the SPPTS to North Walnut Creek would be larger than calculated.

The map in Figure 58 shows the estimated total nitrate + nitrite as nitrogen loads in North Walnut Creek for the period starting in October 2016 (using all available sample results as of February 1, 2020).¹⁵ During this period, the SPPTS removed essentially 100% of the nitrate load from the water it collected.

¹⁵ Loads are calculated only for locations with flow volume measurement.



Notes:

Loads at SW093, GS13, and GS11 are calculated using results from flow-paced composites (Section 3.5). Loads at A3EFF are calculated using grab sample results and flow measurement from GS12 (colocated with A3EFF). Loads at SPIN and SPOUT are calculated using results from grab sampling related to this AMP objective and other treatment system optimization efforts. Arrows indicate general flow routing.

Abbreviation:

kg = kilograms

Figure 58. Map Showing Calculated Nitrate + Nitrite as Nitrogen Loads in North Walnut Creek Since October 2016

4.0 Analytical Data: Fourth Quarter CY 2019

Table 12, “Analytical Results for Water Samples,” is available at the end of this report.

Table 13, “Water Sampling Events: Fourth Quarter CY 2019,” is available at the end of this report.

5.0 References

DOE (U.S. Department of Energy), 2011. *Rocky Flats Site, Colorado, Surface Water Configuration Environmental Assessment*, DOE/EA-1747, LMS/RFS/S06335, Office of Legacy Management, May.

DOE (U.S. Department of Energy), 2018. *Additional Field Implementation Detail for Selected Monitoring Objectives at the Rocky Flats Site, Colorado*, Revision 2.0, LMS/RFS/S08202, Office of Legacy Management, July.

DOE (U.S. Department of Energy), 2019. *Surface Water Configuration Adaptive Management Plan for the Rocky Flats Site, Colorado*, Revision 4.0, LMS/RFS/S07698, Office of Legacy Management, July.

DOE (U.S. Department of Energy), forthcoming. *Annual Report of Site Surveillance and Maintenance Activities at the Rocky Flats Site, Colorado, Calendar Year 2019*, LMS/RFS/S27935, Office of Legacy Management, to be published.

DOE (U.S. Department of Energy), EPA (U.S. Environmental Protection Agency), and CDPHE (Colorado Department of Public Health and Environment), 2007. *Rocky Flats Legacy Management Agreement*, executed on March 14, Attachment 2 updated 2018.

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
00193	WL	10/8/2019	RFS01-10.1910019-048	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	7440-61-1	Uranium	Y	72	ug/L	U	F	0.05		FQ	G	STD
00193	WL	10/8/2019	RFS01-10.1910019-048	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
00997	WL	5/14/2019	RFS01-10.1905015-002	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.06	mg/L	B	F	0.019		FQU	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	7440-61-1	Uranium	Y	24	ug/L	U	F	0.05		FQ	G	STD
00997	WL	5/14/2019	RFS01-10.1905015-002	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
10304	WL	6/6/2019	RFS01-10.1906017-001	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	107-06-2	1,2-Dichloroethane	N	0.18	ug/L	J	F	0.13		FU	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	156-59-2	cis-1,2-Dichloroethene	N	1.1	ug/L	U	F	0.15		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	79-01-6	Trichloroethene	N	3.5	ug/L	U	F	0.16		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-69-4	Trichlorofluoroethane	N	0.29	ug/L	U	F	0.29		F	G	STD
10304	WL	6/6/2019	RFS01-10.1906017-001	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		F	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
10304	WL	10/9/2019	RFS01-10.1910019-046	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U N	F	0.38		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	74-83-9	Bromomethane	N	0.21	ug/L	U *	F	0.21		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-15-0	Carbon Disulfide	N	0.17	ug/L	U N	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	156-59-2	cis-1,2-Dichloroethene	N	0.65	ug/L	J	F	0.15		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	79-01-6	Trichloroethene	N	2.1	ug/L	U	F	0.16		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	7440-61-1	Uranium	Y	45	ug/L	U	F	0.05		F	G	STD
10304	WL	10/9/2019	RFS01-10.1910019-046	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		F	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
10594	WL	5/15/2019	RFS01-10.1905015-003	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.12	mg/L	B	F	0.019		FQU	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	7440-61-1	Uranium	Y	56	ug/L	U	F	0.05		FQ	G	STD
10594	WL	5/15/2019	RFS01-10.1905015-003	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	120-82-1	1,2,4-Trichlorobenzene	N	0.58	ug/L	U	F	0.58		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	95-50-1	1,2-Dichlorobenzene	N	0.22	ug/L	U	F	0.22		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	541-73-1	1,3-Dichlorobenzene	N	0.29	ug/L	U	F	0.29		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	106-46-7	1,4-Dichlorobenzene	N	1.3	ug/L	U	F	1.3		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	90-12-0	1-Methyl Naphthalene	N	0.0056	ug/L	U	F	0.0056		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	95-95-4	2,4,5-Trichlorophenol	N	2	ug/L	U	F	2.0		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	88-06-2	2,4,6-Trichlorophenol	N	0.28	ug/L	U	F	0.28		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	120-83-2	2,4-Dichlorophenol	N	0.63	ug/L	U	F	0.63		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	105-67-9	2,4-Dimethylphenol	N	0.57	ug/L	U	F	0.57		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	51-28-5	2,4-Dinitrophenol	N	9.8	ug/L	U	F	9.8		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	121-14-2	2,4-Dinitrotoluene	N	1.6	ug/L	U	F	1.6		F	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
11104	WL	5/29/2019	RFS01-10.1905016-018	606-20-2	2,6-Dinitrotoluene	N	1.8	ug/L	U	F	1.8		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	91-58-7	2-Chloronaphthalene	N	0.25	ug/L	U	F	0.25		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	95-57-8	2-Chlorophenol	N	2	ug/L	U	F	2.0		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	91-57-6	2-Methylnaphthalene	N	0.0051	ug/L	U	F	0.0051		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	91-57-6	2-Methylnaphthalene	N	1.5	ug/L	U	F	1.5		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	95-48-7	2-Methylphenol	N	0.96	ug/L	U	F	0.96		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	88-74-4	2-Nitroaniline	N	1.7	ug/L	U	F	1.7		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	88-75-5	2-Nitrophenol	N	0.38	ug/L	U	F	0.38		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	91-94-1	3,3'-Dichlorobenzidine	N	2	ug/L	U	F	2.0		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	99-09-2	3-Nitroaniline	N	2	ug/L	U	F	2.0		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	534-52-1	4,6-Dinitro-2-methyl phenol	N	3.9	ug/L	U	F	3.9		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	101-55-3	4-Bromophenyl-phenyl ether	N	0.42	ug/L	U	F	0.42		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	59-50-7	4-Chloro-3-methylphenol	N	2.4	ug/L	U	F	2.4		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	106-47-8	4-Chloroaniline	N	2.1	ug/L	U	F	2.1		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7005-72-3	4-Chlorophenyl phenyl ether	N	1.6	ug/L	U	F	1.6		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	106-44-5	4-Methylphenol	N	0.24	ug/L	U	F	0.24		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	100-01-6	4-Nitroaniline	N	2	ug/L	U	F	2.0		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	100-02-7	4-Nitrophenol	N	1.2	ug/L	U	F	1.2		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	83-32-9	Acenaphthene	N	0.011	ug/L	U	F	0.011		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	83-32-9	Acenaphthene	N	0.27	ug/L	U	F	0.27		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	208-96-8	Acenaphthylene	N	0.0098	ug/L	U	F	0.0098		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	208-96-8	Acenaphthylene	N	0.48	ug/L	U	F	0.48		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	120-12-7	Anthracene	N	0.014	ug/L	U	F	0.014		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	120-12-7	Anthracene	N	0.41	ug/L	U	F	0.41		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-38-2	Arsenic	Y	0.00033	mg/L	U	F	0.00033		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	56-55-3	Benzo(a)anthracene	N	0.012	ug/L	U	F	0.012		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	56-55-3	Benzo(a)anthracene	N	0.34	ug/L	U	F	0.34		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	50-32-8	Benzo(a)pyrene	N	0.005	ug/L	U	F	0.0050		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	50-32-8	Benzo(a)pyrene	N	0.3	ug/L	U	F	0.30		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	205-99-2	Benzo(b)fluoranthene	N	0.014	ug/L	U	F	0.014		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	205-99-2	Benzo(b)fluoranthene	N	0.52	ug/L	U	F	0.52		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	191-24-2	Benzo(g,h,i)Perylene	N	0.008	ug/L	U	F	0.0080		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	191-24-2	Benzo(g,h,i)Perylene	N	0.49	ug/L	U	F	0.49		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	207-08-9	Benzo(k)fluoranthene	N	0.011	ug/L	U	F	0.011		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	207-08-9	Benzo(k)fluoranthene	N	0.45	ug/L	U	F	0.45		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	65-85-0	Benzoic acid	N	9.8	ug/L	U	F	9.8		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	100-51-6	Benzyl Alcohol	N	0.22	ug/L	U	F	0.22		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-41-7	Beryllium	Y	0.00008	mg/L	U	F	0.000080		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	111-91-1	Bis(2-chloroethoxy)methane	N	0.95	ug/L	U	F	0.95		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	111-44-4	Bis(2-chloroethyl) ether	N	0.81	ug/L	U	F	0.81		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	108-60-1	Bis(2-chloroisopropyl) ether	N	0.27	ug/L	U	F	0.27		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	117-81-7	Bis(2-ethylhexyl) phthalate	N	0.55	ug/L	U	F	0.55		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-42-8	Boron	Y	0.021	mg/L	U	F	0.0044		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	85-68-7	Butyl benzyl phthalate	N	0.98	ug/L	U	F	0.98		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-43-9	Cadmium	Y	0.00027	mg/L	U	F	0.00027		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-47-3	Chromium	Y	0.0005	mg/L	U	F	0.00050		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	218-01-9	Chrysene	N	0.012	ug/L	U	F	0.012		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	218-01-9	Chrysene	N	0.53	ug/L	U	F	0.53		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-50-8	Copper	Y	0.00056	mg/L	U	F	0.00056		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	53-70-3	Dibenz(a,h)anthracene	N	0.0047	ug/L	U	F	0.0047		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	53-70-3	Dibenz(a,h)anthracene	N	0.5	ug/L	U	F	0.50		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	132-64-9	Dibenzofuran	N	0.28	ug/L	U	F	0.28		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	84-66-2	Diethyl phthalate	N	0.37	ug/L	U	F	0.37		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	131-11-3	Dimethyl phthalate	N	0.21	ug/L	U	F	0.21		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	84-74-2	Di-n-butyl phthalate	N	1.1	ug/L	U	F	1.1		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	117-84-0	Di-n-octyl phthalate	N	0.34	ug/L	U	F	0.34		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	206-44-0	Fluoranthene	N	0.034	ug/L	U	F	0.034		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	206-44-0	Fluoranthene	N	0.2	ug/L	U	F	0.20		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	86-73-7	Fluorene	N	0.018	ug/L	U	F	0.018		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	86-73-7	Fluorene	N	0.3	ug/L	U	F	0.30		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	118-74-1	Hexachlorobenzene	N	0.65	ug/L	U	F	0.65		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	87-68-3	Hexachlorobutadiene	N	3.2	ug/L	U	F	3.2		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	77-47-4	Hexachlorocyclopentadiene	N	3	ug/L	U	F	3.0		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	67-72-1	Hexachloroethane	N	0.96	ug/L	U	F	0.96		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	193-39-5	Indeno(1,2,3-cd)pyrene	N	0.014	ug/L	U	F	0.014		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	193-39-5	Indeno(1,2,3-cd)pyrene	N	0.64	ug/L	U	F	0.64		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	78-59-1	Isophorone	N	0.21	ug/L	U	F	0.21		F	G	STD

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11104	WL	5/29/2019	RFS01-10.1905016-018	7439-92-1	Lead	Y	0.00018	mg/L	U	F	0.00018		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7439-97-6	Mercury	Y	0.000037	mg/L	J B	F	0.000027		FU	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	91-20-3	Naphthalene	N	0.0052	ug/L	U	F	0.0052		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	91-20-3	Naphthalene	N	0.28	ug/L	U	F	0.28		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-02-0	Nickel	Y	0.0014	mg/L	J	F	0.00030		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	98-95-3	Nitrobenzene	N	0.79	ug/L	U	F	0.79		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	621-64-7	N-Nitrosodi-n-propylamine	N	0.34	ug/L	U	F	0.34		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	86-30-6	N-Nitrosodiphenylamine	N	0.43	ug/L	U	F	0.43		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	87-86-5	Pentachlorophenol	N	20	ug/L	U	F	20		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	85-01-8	Phenanthrene	N	0.0096	ug/L	U	F	0.0096		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	85-01-8	Phenanthrene	N	0.25	ug/L	U	F	0.25		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	108-95-2	Phenol	N	2	ug/L	U	F	2.0		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-001	129-00-0	Pyrene	N	0.0079	ug/L	U	F	0.0079		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	129-00-0	Pyrene	N	0.36	ug/L	U	F	0.36		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7782-49-2	Selenium	Y	0.00097	mg/L	J	F	0.00037		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-22-4	Silver	Y	0.000033	mg/L	U	F	0.000033		F	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-61-1	Uranium	Y	21	ug/L	U	F	0.05		FJ	G	STD
11104	WL	5/29/2019	RFS01-10.1905016-018	7440-66-6	Zinc	Y	0.002	mg/L	U	F	0.0020		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		F	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
11104	WL	10/8/2019	RFS01-10.1910019-018	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	7440-61-1	Uranium	Y	26	ug/L		F	0.05		F	G	STD
11104	WL	10/8/2019	RFS01-10.1910019-018	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		F	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	541-73-1	1,3-Dichlorobenzene	N	0.14	ug/L	J	F	0.13		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.045	mg/L	J	F	0.019		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
4087	WL	10/7/2019	RFS01-10.1910019-020	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	7440-61-1	Uranium	Y	49	ug/L	U	F	0.05		FQ	G	STD
4087	WL	10/7/2019	RFS01-10.1910019-020	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	156-59-2	cis-1,2-Dichloroethene	N	0.71	ug/L	J	F	0.15		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
42505	WL	10/7/2019	RFS01-10.1910019-023	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD
42505	WL	10/7/2019	RFS01-10.1910019-023	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	87-88-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
89104	WL	5/13/2019	RFS01-10.1905015-007	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD
89104	WL	5/13/2019	RFS01-10.1905015-007	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
89104	WL	10/8/2019	RFS01-10.1910019-036	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
89104	WL	10/8/2019	RFS01-10.1910019-036	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
A1EFF	SL	5/1/2019	RFS01-06.1905018-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.8	mg/L	B	F	0.019		J	G	STD
A1EFF	SL	5/1/2019	RFS01-06.1905018-001	7440-61-1	Uranium	N	12	ug/L	F	F	0.05			G	STD
A1EFF	SL	5/15/2019	RFS01-04.1905021-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.57	mg/L	B	F	0.019			G	STD
A1EFF	SL	5/15/2019	RFS01-04.1905021-011	7440-61-1	Uranium	N	5.3	ug/L	F	F	0.05			G	STD
A1EFF	SL	5/30/2019	RFS01-06.1905019-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.9	mg/L	B	F	0.019			G	STD
A1EFF	SL	5/30/2019	RFS01-06.1905019-001	7440-61-1	Uranium	N	4.1	ug/L	F	F	0.05			G	STD
A1EFF	SL	6/13/2019	RFS01-04.1906022-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.043	mg/L	J	F	0.019			G	STD
A1EFF	SL	6/13/2019	RFS01-04.1906022-015	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.042	mg/L	J	D	0.019			G	STD
A1EFF	SL	6/13/2019	RFS01-04.1906022-011	7440-61-1	Uranium	N	7.2	ug/L	F	F	0.4			G	STD
A1EFF	SL	6/13/2019	RFS01-04.1906022-015	7440-61-1	Uranium	N	7	ug/L	D	D	0.4			G	STD
A1EFF	SL	6/26/2019	RFS01-06.1906020-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A1EFF	SL	6/26/2019	RFS01-06.1906020-001	7440-61-1	Uranium	N	5.2	ug/L	F	F	0.05			G	STD
A1EFF	SL	7/15/2019	RFS01-04.1907025-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A1EFF	SL	7/15/2019	RFS01-04.1907025-011	7440-61-1	Uranium	N	4.7	ug/L	F	F	0.05			G	STD
A1EFF	SL	12/3/2019	RFS01-06.1912025-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	8.8	mg/L	F	F	0.019			G	STD
A1EFF	SL	12/3/2019	RFS01-06.1912025-001	7440-61-1	Uranium	N	25	ug/L	F	F	0.05			G	STD
A1EFF	SL	12/17/2019	RFS01-04.1912031-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.9	mg/L	F	F	0.019			G	STD
A1EFF	SL	12/17/2019	RFS01-04.1912031-011	7440-61-1	Uranium	N	14	ug/L	F	F	0.05			G	STD
A1EFF	SL	12/30/2019	RFS01-06.1912026-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.8	mg/L	F	F	0.019			G	STD
A1EFF	SL	12/30/2019	RFS01-06.1912026-001	7440-61-1	Uranium	N	15	ug/L	F	F	0.05			G	STD
A1EFF	SL	1/15/2020	RFS01-04.2001032-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.6	mg/L	F	F	0.019			G	STD
A1EFF	SL	1/15/2020	RFS01-04.2001032-011	7440-61-1	Uranium	N	23	ug/L	F	F	0.05			G	STD
A2EFF	SL	5/1/2019	RFS01-06.1905018-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1	mg/L	B	F	0.019			G	STD
A2EFF	SL	5/1/2019	RFS01-06.1905018-011	7440-61-1	Uranium	N	16	ug/L	F	F	0.05			G	STD
A2EFF	SL	5/15/2019	RFS01-04.1905021-010	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.23	mg/L	B	F	0.019		U	G	STD
A2EFF	SL	5/15/2019	RFS01-04.1905021-010	7440-61-1	Uranium	N	8.7	ug/L	F	F	0.05			G	STD
A2EFF	SL	5/30/2019	RFS01-06.1905019-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.5	mg/L	B	F	0.019			G	STD
A2EFF	SL	5/30/2019	RFS01-06.1905019-011	7440-61-1	Uranium	N	5.4	ug/L	F	F	0.05			G	STD
A2EFF	SL	6/13/2019	RFS01-04.1906022-010	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A2EFF	SL	6/13/2019	RFS01-04.1906022-010	7440-61-1	Uranium	N	9.7	ug/L	F	F	0.4			G	STD
A2EFF	SL	6/26/2019	RFS01-06.1906020-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A2EFF	SL	6/26/2019	RFS01-06.1906020-011	7440-61-1	Uranium	N	7.8	ug/L	F	F	0.05			G	STD
A2EFF	SL	7/15/2019	RFS01-04.1907025-010	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A2EFF	SL	7/15/2019	RFS01-04.1907025-010	7440-61-1	Uranium	N	6.4	ug/L	F	F	0.05			G	STD
A2EFF	SL	12/17/2019	RFS01-04.1912031-010	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.5	mg/L	F	F	0.019			G	STD
A2EFF	SL	12/17/2019	RFS01-04.1912031-010	7440-61-1	Uranium	N	21	ug/L	F	F	0.05			G	STD
A2EFF	SL	12/30/2019	RFS01-06.1912026-011	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.9	mg/L	F	F	0.019			G	STD
A2EFF	SL	12/30/2019	RFS01-06.1912026-011	7440-61-1	Uranium	N	22	ug/L	F	F	0.05			G	STD
A2EFF	SL	1/15/2020	RFS01-04.2001032-010	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.1	mg/L	F	F	0.019			G	STD
A2EFF	SL	1/15/2020	RFS01-04.2001032-010	7440-61-1	Uranium	N	34	ug/L	F	F	0.05			G	STD
A3EFF	SL	5/1/2019	RFS01-06.1905018-012	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.039	mg/L	J B	F	0.019		U	G	STD
A3EFF	SL	5/1/2019	RFS01-06.1905018-012	7440-61-1	Uranium	N	20	ug/L	F	F	0.05			G	STD
A3EFF	SL	5/15/2019	RFS01-04.1905021-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.094	mg/L	B	F	0.019		U	G	STD
A3EFF	SL	5/15/2019	RFS01-04.1905021-009	7440-61-1	Uranium	N	10	ug/L	F	F	0.05			G	STD
A3EFF	SL	5/30/2019	RFS01-06.1905019-012	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.6	mg/L	B	F	0.019			G	STD
A3EFF	SL	5/30/2019	RFS01-06.1905019-012	7440-61-1	Uranium	N	6.1	ug/L	F	F	0.05			G	STD
A3EFF	SL	6/13/2019	RFS01-04.1906022-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A3EFF	SL	6/13/2019	RFS01-04.1906022-009	7440-61-1	Uranium	N	9.4	ug/L	F	F	0.4			G	STD
A3EFF	SL	6/26/2019	RFS01-06.1906020-012	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A3EFF	SL	6/26/2019	RFS01-06.1906020-012	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	D	0.019			G	STD
A3EFF	SL	6/26/2019	RFS01-06.1906020-016	7440-61-1	Uranium	N	8.4	ug/L	F	F	0.05			G	STD
A3EFF	SL	6/26/2019	RFS01-06.1906020-016	7440-61-1	Uranium	N	8	ug/L	D	D	0.05			G	STD
A3EFF	SL	7/15/2019	RFS01-04.1907025-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
A3EFF	SL	7/15/2019	RFS01-04.1907025-009	7440-61-1	Uranium	N	7.7	ug/L	F	F	0.05			G	STD
A3EFF	SL	12/17/2019	RFS01-04.1912031-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.3	mg/L	F	F	0.019			G	STD
A3EFF	SL	12/17/2019	RFS01-04.1912031-009	7440-61-1	Uranium	N	23	ug/L	F	F	0.05			G	STD
A3EFF	SL	12/30/2019	RFS01-06.1912026-012	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	2.8	mg/L	F	F	0.019			G	STD
A3EFF	SL	12/30/2019	RFS01-06.1912026-012	7440-61-1	Uranium	N	26	ug/L	F	F	0.05			G	STD
A3EFF	SL	1/15/2020	RFS01-04.2001032-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.6	mg/L	F	F	0.019			G	STD
A3EFF	SL	1/15/2020	RFS01-04.2001032-009	7440-61-1	Uranium	N	32	ug/L	F	F	0.05			G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	630-20-6	1,1,1,2-Tetrachloroethane	N	0.21	ug/L	U	D	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	71-55-6	1,1,1-Trichloroethane	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	79-34-5	1,1,2,2-Tetrachloroethane	N	0.21	ug/L	U	D	0.21		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
B206989	WL	10/7/2019	RFS01-10.1910019-021	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	F	0.27		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	79-00-5	1,1,2-Trichloroethane	N	0.27	ug/L	U	D	0.27		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	F	0.22		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-34-3	1,1-Dichloroethane	N	0.22	ug/L	U	D	0.22		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	F	0.23		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-35-4	1,1-Dichloroethene	N	0.23	ug/L	U	D	0.23		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	563-58-6	1,1-Dichloropropene	N	0.19	ug/L	U	D	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	87-61-6	1,2,3-Trichlorobenzene	N	0.21	ug/L	U	D	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	F	0.33		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	96-18-4	1,2,3-Trichloropropane	N	0.33	ug/L	U	D	0.33		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	120-82-1	1,2,4-Trichlorobenzene	N	0.21	ug/L	U	D	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	95-63-6	1,2,4-Trimethylbenzene	N	0.15	ug/L	U	D	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	F	0.47		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	96-12-8	1,2-Dibromo-3-chloropropane	N	0.47	ug/L	U	D	0.47		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	106-93-4	1,2-Dibromoethane	N	0.18	ug/L	U	D	0.18		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	95-50-1	1,2-Dichlorobenzene	N	0.15	ug/L	U	D	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	F	0.13		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	107-06-2	1,2-Dichloroethane	N	0.13	ug/L	U	D	0.13		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	F	0.18		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	78-87-5	1,2-Dichloropropane	N	0.18	ug/L	U	D	0.18		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	108-67-8	1,3,5-Trimethylbenzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	F	0.13		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	541-73-1	1,3-Dichlorobenzene	N	0.13	ug/L	U	D	0.13		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	F	0.090		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	142-28-9	1,3-Dichloropropane	N	0.09	ug/L	U	D	0.090		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	106-46-7	1,4-Dichlorobenzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	F	0.38		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	594-20-7	2,2-Dichloropropane	N	0.38	ug/L	U	D	0.38		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	78-93-3	2-Butanone	N	2	ug/L	U	F	2.0		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	78-93-3	2-Butanone	N	2	ug/L	U	D	2.0		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	95-49-8	2-Chlorotoluene	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	591-78-6	2-Hexanone	N	1.7	ug/L	U	F	1.7		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	591-78-6	2-Hexanone	N	1.7	ug/L	U	D	1.7		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	106-43-4	4-Chlorotoluene	N	0.21	ug/L	U	D	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	F	0.98		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	108-10-1	4-Methyl-2-Pentanone	N	0.98	ug/L	U	D	0.98		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	67-64-1	Acetone	N	1.9	ug/L	U	F	1.9		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	67-64-1	Acetone	N	1.9	ug/L	U	D	1.9		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	71-43-2	Benzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	71-43-2	Benzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	108-86-1	Bromobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	108-86-1	Bromobenzene	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	74-97-5	Bromochloromethane	N	0.1	ug/L	U	F	0.10		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	74-97-5	Bromochloromethane	N	0.1	ug/L	U	D	0.10		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-27-4	Bromodichloromethane	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-25-2	Bromoform	N	0.46	ug/L	U	F	0.46		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-25-2	Bromoform	N	0.46	ug/L	U	D	0.46		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	74-83-9	Bromomethane	N	0.21	ug/L	U	F	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	74-83-9	Bromomethane	N	0.21	ug/L	U	D	0.21		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-15-0	Carbon Disulfide	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	56-23-5	Carbon tetrachloride	N	0.19	ug/L	U	D	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	108-90-7	Chlorobenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	108-90-7	Chlorobenzene	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
B206989	WL	10/7/2019	RFS01-10.1910019-058	124-48-1	Chlorodibromomethane	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-00-3	Chloroethane	N	0.41	ug/L	U	F	0.41		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-00-3	Chloroethane	N	0.41	ug/L	U	D	0.41		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	67-66-3	Chloroform	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	67-66-3	Chloroform	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	74-87-3	Chloromethane	N	0.3	ug/L	U	F	0.30		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	74-87-3	Chloromethane	N	0.3	ug/L	U	D	0.30		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	156-59-2	cis-1,2-Dichloroethene	N	0.15	ug/L	U	D	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	10061-01-5	cis-1,3-Dichloropropene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	74-95-3	Dibromomethane	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	74-95-3	Dibromomethane	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	F	0.31		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-71-8	Dichlorodifluoromethane	N	0.31	ug/L	U	D	0.31		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	100-41-4	Ethylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	100-41-4	Ethylbenzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	87-68-3	Hexachlorobutadiene	N	0.36	ug/L	U	D	0.36		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	98-82-8	Isopropylbenzene	N	0.19	ug/L	U	D	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-09-2	Methylene chloride	N	0.94	ug/L	U	F	0.94		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-09-2	Methylene chloride	N	0.94	ug/L	U	D	0.94		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	91-20-3	Naphthalene	N	0.22	ug/L	U	F	0.22		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	91-20-3	Naphthalene	N	0.22	ug/L	U	D	0.22		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	F	0.14		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	104-51-8	n-Butylbenzene	N	0.14	ug/L	U	D	0.14		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.9	mg/L	U	F	0.019		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.9	mg/L	U	D	0.019		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	103-65-1	n-Propylbenzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	99-87-6	p-Isopropyltoluene	N	0.2	ug/L	U	D	0.20		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	135-98-8	sec-Butylbenzene	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	100-42-5	Styrene	N	0.36	ug/L	U	F	0.36		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	100-42-5	Styrene	N	0.36	ug/L	U	D	0.36		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	98-06-6	tert-Butylbenzene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	F	0.20		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	127-18-4	Tetrachloroethene	N	0.2	ug/L	U	D	0.20		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	108-88-3	Toluene	N	0.17	ug/L	U	F	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	108-88-3	Toluene	N	0.17	ug/L	U	D	0.17		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	1330-20-7	Total Xylenes	N	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	1330-20-7	Total Xylenes	N	0.19	ug/L	U	D	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	F	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	156-60-5	trans-1,2-Dichloroethene	N	0.15	ug/L	U	D	0.15		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	F	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	10061-02-6	trans-1,3-dichloropropene	N	0.19	ug/L	U	D	0.19		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	79-01-6	Trichloroethene	N	0.16	ug/L	U	F	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	79-01-6	Trichloroethene	N	0.16	ug/L	U	D	0.16		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	F	0.29		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-69-4	Trichlorofluoromethane	N	0.29	ug/L	U	D	0.29		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	7440-61-1	Uranium	Y	92	ug/L	U	F	0.05		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	7440-61-1	Uranium	Y	93	ug/L	U	D	0.05		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-021	75-01-4	Vinyl chloride	N	0.1	ug/L	U	F	0.10		FQ	G	STD
B206989	WL	10/7/2019	RFS01-10.1910019-058	75-01-4	Vinyl chloride	N	0.1	ug/L	U	D	0.10		FQ	G	STD
B3OUTFLOW	SL	5/1/2019	RFS01-06.1905018-002	7440-61-1	Uranium	N	17	ug/L	F	F	0.05		G	G	STD
B3OUTFLOW	SL	5/15/2019	RFS01-04.1905021-002	7440-61-1	Uranium	N	13	ug/L	F	F	0.05		G	G	STD
B3OUTFLOW	SL	5/30/2019	RFS01-06.1905019-002	7440-61-1	Uranium	N	8.6	ug/L	F	F	0.05		G	G	STD
B3OUTFLOW	SL	6/13/2019	RFS01-04.1906022-002	7440-61-1	Uranium	N	9.6	ug/L	F	F	0.4		G	G	STD
B3OUTFLOW	SL	6/26/2019	RFS01-06.1906020-002	7440-61-1	Uranium	N	5.6	ug/L	F	F	0.05		G	G	STD
B3OUTFLOW	SL	7/15/2019	RFS01-04.1907025-002	7440-61-1	Uranium	N	3.4	ug/L	F	F	0.05		G	G	STD
B3OUTFLOW	SL	7/31/2019	RFS01-06.1908021-002	7440-61-1	Uranium	N	1.6	ug/L	F	F	0.05		G	G	STD
B3OUTFLOW	SL	12/3/2019	RFS01-06.1912025-002	7440-61-1	Uranium	N	31	ug/L	F	F	0.05		G	G	STD
B3OUTFLOW	SL	12/17/2019	RFS01-04.1912031-002	7440-61-1	Uranium	N	30	ug/L	W	F	0.05		G	G	STD
B3OUTFLOW	SL	12/30/2019	RFS01-06.1912026-002	7440-61-1	Uranium	N	32	ug/L	F	F	0.05		G	G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
B3OUTFLOW	SL	1/15/2020	RFS01-04.2001032-002	7440-61-1	Uranium	N	45	ug/L		F	0.05			G	STD
B5INFLOW	SL	5/1/2019	RFS01-06.1905018-003	7440-61-1	Uranium	N	15	ug/L		F	0.05			G	STD
B5INFLOW	SL	5/6/2019	RFS01-05.1905020-006	7440-61-1	Uranium	N	13.5	ug/L		F	0.067			C	GEN
B5INFLOW	SL	5/15/2019	RFS01-04.1905021-003	7440-61-1	Uranium	N	15	ug/L		F	0.05			G	STD
B5INFLOW	SL	5/24/2019	RFS01-05.1906021-006	7440-61-1	Uranium	N	11.1	ug/L		F	0.067			C	GEN
B5INFLOW	SL	5/29/2019	RFS01-05.1906022-006	7440-61-1	Uranium	N	10.5	ug/L		F	0.067			C	GEN
B5INFLOW	SL	5/30/2019	RFS01-06.1905019-003	7440-61-1	Uranium	N	8.7	ug/L		F	0.05			G	STD
B5INFLOW	SL	6/6/2019	RFS01-04.1906023-001	7440-61-1	Uranium	N	6.9	ug/L		F	0.05			C	STD
B5INFLOW	SL	6/13/2019	RFS01-04.1906022-003	7440-61-1	Uranium	N	8	ug/L		F	0.4			G	STD
B5INFLOW	SL	6/13/2019	RFS01-05.1906023-006	7440-61-1	Uranium	N	6.35	ug/L		F	0.067			C	GEN
B5INFLOW	SL	6/13/2019	RFS01-05.1906023-007	7440-61-1	Uranium	N	6.35	ug/L		D	0.067			C	GEN
B5INFLOW	SL	6/25/2019	RFS01-05.1907024-006	7440-61-1	Uranium	N	4.67	ug/L		F	0.067			C	GEN
B5INFLOW	SL	6/26/2019	RFS01-06.1906020-003	7440-61-1	Uranium	N	5.1	ug/L		F	0.05			G	STD
B5INFLOW	SL	7/5/2019	RFS01-05.1907025-006	7440-61-1	Uranium	N	4.08	ug/L		F	0.067			C	GEN
B5INFLOW	SL	7/15/2019	RFS01-04.1907025-003	7440-61-1	Uranium	N	4.1	ug/L		F	0.05			G	STD
B5INFLOW	SL	12/3/2019	RFS01-06.1912025-003	7440-61-1	Uranium	N	31	ug/L		F	0.05			G	STD
B5INFLOW	SL	12/17/2019	RFS01-04.1912031-003	7440-61-1	Uranium	N	28	ug/L		F	0.05			G	STD
B5INFLOW	SL	12/17/2019	RFS01-04.1912031-014	7440-61-1	Uranium	N	27	ug/L		D	0.05			G	STD
B5INFLOW	SL	12/30/2019	RFS01-06.1912026-003	7440-61-1	Uranium	N	34	ug/L		F	0.05			G	STD
GS08	SL	5/1/2019	RFS01-06.1905018-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.027	mg/L	J B	F	0.019		U	G	STD
GS08	SL	5/1/2019	RFS01-06.1905018-013	7440-61-1	Uranium	N	15	ug/L		F	0.05			G	STD
GS08	SL	5/7/2019	RFS01-05.1905020-002	14596-10-2	Americium-241	N	0.019	pCi/L	U	F				C	GEN
GS08	SL	5/7/2019	RFS01-05.1905020-002	PU-239,240	Plutonium-239, 240	N	0.0044	pCi/L	U	F				C	GEN
GS08	SL	5/7/2019	RFS01-05.1905020-002	7440-61-1	Uranium	N	13.8	ug/L		F	0.067			C	GEN
GS08	SL	5/15/2019	RFS01-04.1905021-012	7440-61-1	Uranium	N	15	ug/L		F	0.05			G	STD
GS08	SL	5/24/2019	RFS01-05.1906021-002	14596-10-2	Americium-241	N	0.0145	pCi/L	U	F				C	GEN
GS08	SL	5/24/2019	RFS01-05.1906021-002	PU-239,240	Plutonium-239, 240	N	3.87E-09	pCi/L	U	F				C	GEN
GS08	SL	5/24/2019	RFS01-02.1905016-002	TSS	Total Suspended Solids	N	7.1	mg/L		F	2.0			C	STD
GS08	SL	5/24/2019	RFS01-05.1906021-002	7440-61-1	Uranium	N	14	ug/L		F	0.067			C	GEN
GS08	SL	5/29/2019	RFS01-05.1906022-002	14596-10-2	Americium-241	N	-0.00647	pCi/L	U	F				C	GEN
GS08	SL	5/29/2019	RFS01-05.1906022-002	PU-239,240	Plutonium-239, 240	N	-0.00169	pCi/L	U	F				C	GEN
GS08	SL	5/29/2019	RFS01-05.1906022-002	7440-61-1	Uranium	N	12.7	ug/L		F	0.067			C	GEN
GS08	SL	5/30/2019	RFS01-06.1905019-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.028	mg/L	J B	F	0.019		U	G	STD
GS08	SL	5/30/2019	RFS01-06.1905019-013	7440-61-1	Uranium	N	10	ug/L		F	0.05			G	STD
GS08	SL	6/6/2019	RFS01-05.1906022-007	14596-10-2	Americium-241	N	0.0154	pCi/L	U	F				C	GEN
GS08	SL	6/6/2019	RFS01-05.1906022-007	PU-239,240	Plutonium-239, 240	N	-0.0101	pCi/L	U	F				C	GEN
GS08	SL	6/6/2019	RFS01-05.1906022-007	7440-61-1	Uranium	N	10.9	ug/L		F	0.067			C	GEN
GS08	SL	6/10/2019	RFS01-05.1906023-002	14596-10-2	Americium-241	N	0.00674	pCi/L	U	F				C	GEN
GS08	SL	6/10/2019	RFS01-05.1906023-002	PU-239,240	Plutonium-239, 240	N	0.012	pCi/L	U	F				C	GEN
GS08	SL	6/10/2019	RFS01-05.1906023-002	7440-61-1	Uranium	N	7.19	ug/L		F	0.067			C	GEN
GS08	SL	6/13/2019	RFS01-04.1906022-012	7440-61-1	Uranium	N	11	ug/L		F	0.4			G	STD
GS08	SL	6/25/2019	RFS01-05.1907024-002	14596-10-2	Americium-241	N	0.0187	pCi/L	U	F				C	GEN
GS08	SL	6/25/2019	RFS01-05.1907024-002	PU-239,240	Plutonium-239, 240	N	0.00179	pCi/L	U	F				C	GEN
GS08	SL	6/25/2019	RFS01-05.1907024-002	7440-61-1	Uranium	N	5.61	ug/L		F	0.067			C	GEN
GS08	SL	6/26/2019	RFS01-06.1906020-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
GS08	SL	6/26/2019	RFS01-06.1906020-013	7440-61-1	Uranium	N	6.5	ug/L		F	0.05			G	STD
GS08	SL	7/5/2019	RFS01-05.1907025-002	14596-10-2	Americium-241	N	-0.0172	pCi/L	U	F				C	GEN
GS08	SL	7/5/2019	RFS01-05.1907025-002	PU-239,240	Plutonium-239, 240	N	0.00121	pCi/L	U	F				C	GEN
GS08	SL	7/5/2019	RFS01-05.1907025-002	7440-61-1	Uranium	N	5.37	ug/L		F	0.067			C	GEN
GS08	SL	7/15/2019	RFS01-04.1907025-012	7440-61-1	Uranium	N	4.9	ug/L		F	0.05			G	STD
GS08	SL	1/15/2020	RFS01-04.2001032-012	7440-61-1	Uranium	N	13	ug/L		F	0.05			G	STD
GS10	SL	1/3/2019	RFS01-13.1904014-001	14596-10-2	Americium-241	N	-0.0109	pCi/L	U	F				C	GEN
GS10	SL	1/3/2019	RFS01-13.1904014-001	PU-239,240	Plutonium-239, 240	N	0.00127	pCi/L	U	F				C	GEN
GS10	SL	1/3/2019	RFS01-13.1904014-001	7440-61-1	Uranium	N	18.6	ug/L		F	0.067			C	GEN
GS10	SL	3/28/2019	RFS01-13.1904015-001	14596-10-2	Americium-241	N	4.38E-09	pCi/L	U	F				C	GEN
GS10	SL	3/28/2019	RFS01-13.1904015-001	PU-239,240	Plutonium-239, 240	N	0.00461	pCi/L	U	F				C	GEN
GS10	SL	3/28/2019	RFS01-13.1904015-001	7440-61-1	Uranium	N	19.5	ug/L		F	0.067			C	GEN
GS10	SL	4/25/2019	RFS01-13.1905016-001	14596-10-2	Americium-241	N	0.00435	pCi/L	U	F				C	GEN
GS10	SL	4/25/2019	RFS01-13.1905016-001	PU-239,240	Plutonium-239, 240	N	-0.00278	pCi/L	U	F				C	GEN
GS10	SL	4/25/2019	RFS01-13.1905016-001	7440-61-1	Uranium	N	18.4	ug/L		F	0.067			C	GEN
GS10	SL	5/1/2019	RFS01-06.1905018-004	7440-61-1	Uranium	N	14	ug/L		F	0.05			C	STD
GS10	SL	5/13/2019	RFS01-13.1905017-001	14596-10-2	Americium-241	N	0.00365	pCi/L	U	F				C	GEN
GS10	SL	5/13/2019	RFS01-13.1905017-001	PU-239,240	Plutonium-239, 240	N	-0.0019	pCi/L	U	F				C	GEN
GS10	SL	5/13/2019	RFS01-13.1905017-001	7440-61-1	Uranium	N	14.5	ug/L		F	0.067			C	GEN
GS10	SL	5/15/2019	RFS01-04.1905021-001	7440-61-1	Uranium	N	16	ug/L		F	0.05			G	STD
GS10	SL	5/24/2019	RFS01-13.1906018-001	14596-10-2	Americium-241	N	0.0195	pCi/L	U	F				C	GEN
GS10	SL	5/24/2019	RFS01-13.1906018-005	14596-10-2	Americium-241	N	0.0165	pCi/L	U	D				C	GEN

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
GS10	SL	5/24/2019	RFS01-13.1906018-001	PU-239,240	Plutonium-239, 240	N	-0.00783	pCi/L	U	F				C	GEN
GS10	SL	5/24/2019	RFS01-13.1906018-005	PU-239,240	Plutonium-239, 240	N	0.033	pCi/L	U	D				C	GEN
GS10	SL	5/24/2019	RFS01-02.1905016-001	TSS	Total Suspended Solids	N	6.4	mg/L	J	F	2.0			C	STD
GS10	SL	5/24/2019	RFS01-13.1906018-001	7440-61-1	Uranium	N	10.2	ug/L		F	0.067			C	GEN
GS10	SL	5/24/2019	RFS01-13.1906018-005	7440-61-1	Uranium	N	9.35	ug/L		D	0.067			C	GEN
GS10	SL	5/29/2019	RFS01-13.1906019-001	14596-10-2	Americium-241	N	0.00213	pCi/L	U	F				C	GEN
GS10	SL	5/29/2019	RFS01-13.1906019-001	PU-239,240	Plutonium-239, 240	N	0.0101	pCi/L	U	F				C	GEN
GS10	SL	5/29/2019	RFS01-13.1906019-001	7440-61-1	Uranium	N	11.1	ug/L		F	0.067			C	GEN
GS10	SL	5/30/2019	RFS01-06.1905019-004	7440-61-1	Uranium	N	11	ug/L		F	0.05			G	STD
GS10	SL	6/6/2019	RFS01-13.1906019-005	14596-10-2	Americium-241	N	0.0231	pCi/L	U	D				C	GEN
GS10	SL	6/6/2019	RFS01-13.1906019-007	14596-10-2	Americium-241	N	0.0109	pCi/L	U	F				C	GEN
GS10	SL	6/6/2019	RFS01-13.1906019-005	PU-239,240	Plutonium-239, 240	N	0.00435	pCi/L	U	D				C	GEN
GS10	SL	6/6/2019	RFS01-13.1906019-007	PU-239,240	Plutonium-239, 240	N	0.017	pCi/L	U	F				C	GEN
GS10	SL	6/6/2019	RFS01-13.1906019-005	7440-61-1	Uranium	N	6.8	ug/L		D	0.067			C	GEN
GS10	SL	6/6/2019	RFS01-13.1906019-007	7440-61-1	Uranium	N	6.95	ug/L		F	0.067			C	GEN
GS10	SL	6/10/2019	RFS01-13.1906020-001	14596-10-2	Americium-241	N	0.00552	pCi/L	U	F				C	GEN
GS10	SL	6/10/2019	RFS01-13.1906020-001	PU-239,240	Plutonium-239, 240	N	-0.00139	pCi/L	U	F				C	GEN
GS10	SL	6/10/2019	RFS01-13.1906020-001	7440-61-1	Uranium	N	11.5	ug/L	E	F	0.067		J	C	GEN
GS10	SL	6/13/2019	RFS01-04.1906022-001	7440-61-1	Uranium	N	12	ug/L	W	F	0.4			G	STD
GS10	SL	6/18/2019	RFS01-13.1906021-001	14596-10-2	Americium-241	N	-0.00433	pCi/L	U	F				C	GEN
GS10	SL	6/18/2019	RFS01-13.1906021-001	PU-239,240	Plutonium-239, 240	N	0.00657	pCi/L	U	F				C	GEN
GS10	SL	6/18/2019	RFS01-13.1906021-001	7440-61-1	Uranium	N	8.68	ug/L	E	F	0.067		J	C	GEN
GS10	SL	6/25/2019	RFS01-13.1907023-001	14596-10-2	Americium-241	N	0.00303	pCi/L	U	F				C	GEN
GS10	SL	6/25/2019	RFS01-13.1907023-001	PU-239,240	Plutonium-239, 240	N	-0.0126	pCi/L	U	F				C	GEN
GS10	SL	6/25/2019	RFS01-13.1907023-001	7440-61-1	Uranium	N	4.72	ug/L		F	0.067			C	GEN
GS10	SL	6/26/2019	RFS01-06.1906020-004	7440-61-1	Uranium	N	7.9	ug/L		F	0.05			G	STD
GS10	SL	7/2/2019	RFS01-13.1907024-001	14596-10-2	Americium-241	N	0.00426	pCi/L	U	F				C	GEN
GS10	SL	7/2/2019	RFS01-13.1907024-001	PU-239,240	Plutonium-239, 240	N	-0.0117	pCi/L	U	F				C	GEN
GS10	SL	7/2/2019	RFS01-13.1907024-001	7440-61-1	Uranium	N	6.4	ug/L		F	0.067			C	GEN
GS10	SL	7/11/2019	RFS01-13.1907025-001	14596-10-2	Americium-241	N	0.00898	pCi/L	U	F				C	GEN
GS10	SL	7/11/2019	RFS01-13.1907025-001	PU-239,240	Plutonium-239, 240	N	0.00451	pCi/L	U	F				C	GEN
GS10	SL	7/11/2019	RFS01-13.1907025-001	7440-61-1	Uranium	N	6.67	ug/L		F	0.067			C	GEN
GS10	SL	7/15/2019	RFS01-04.1907025-001	7440-61-1	Uranium	N	6.2	ug/L		F	0.05			G	STD
GS10	SL	7/24/2019	RFS01-13.1908027-001	14596-10-2	Americium-241	N	0.00211	pCi/L	U	F				C	GEN
GS10	SL	7/24/2019	RFS01-13.1908027-001	PU-239,240	Plutonium-239, 240	N	-0.00369	pCi/L	U	F				C	GEN
GS10	SL	7/24/2019	RFS01-13.1908027-001	7440-61-1	Uranium	N	5.62	ug/L		F	0.067			C	GEN
GS10	SL	7/31/2019	RFS01-06.1908021-004	7440-61-1	Uranium	N	5.3	ug/L		F	0.05			G	STD
GS10	SL	8/6/2019	RFS01-13.1911028-001	14596-10-2	Americium-241	N	0.00795	pCi/L	U	F				C	GEN
GS10	SL	8/6/2019	RFS01-13.1911028-001	PU-239,240	Plutonium-239, 240	N	0.0212	pCi/L	U	F				C	GEN
GS10	SL	8/6/2019	RFS01-13.1911028-001	7440-61-1	Uranium	N	16.2	ug/L		F	0.067			C	GEN
GS10	SL	8/15/2019	RFS01-04.1908026-001	7440-61-1	Uranium	N	5.1	ug/L		F	0.05			G	STD
GS10	SL	8/15/2019	RFS01-04.1908026-014	7440-61-1	Uranium	N	4.9	ug/L		D	0.05			G	STD
GS10	SL	10/15/2019	RFS01-04.1910029-001	7440-61-1	Uranium	N	23	ug/L		F	0.05			G	STD
GS10	SL	10/15/2019	RFS01-04.1910029-014	7440-61-1	Uranium	N	23	ug/L		D	0.05			G	STD
GS10	SL	10/31/2019	RFS01-06.1910024-004	7440-61-1	Uranium	N	18	ug/L		F	0.05			G	STD
GS10	SL	10/31/2019	RFS01-01.2001023-011	14596-10-2	Americium-241	N	0.00128	pCi/L	U	F				C	GEN
GS10	SL	10/31/2019	RFS01-01.2001023-011	PU-239,240	Plutonium-239, 240	N	-0.00126	pCi/L	U	F				C	GEN
GS10	SL	10/31/2019	RFS01-01.2001023-011	7440-61-1	Uranium	N	19.8	ug/L		F	0.067			C	GEN
GS10	SL	11/15/2019	RFS01-04.1911030-001	7440-61-1	Uranium	N	20	ug/L		F	0.05			C	STD
GS10	SL	12/3/2019	RFS01-06.1912025-004	7440-61-1	Uranium	N	17	ug/L		F	0.05			G	STD
GS10	SL	12/17/2019	RFS01-04.1912031-001	7440-61-1	Uranium	N	24	ug/L		F	0.05			G	STD
GS10	SL	12/30/2019	RFS01-06.1912026-004	7440-61-1	Uranium	N	29	ug/L		F	0.05			G	STD
GS10	SL	1/15/2020	RFS01-04.2001032-001	7440-61-1	Uranium	N	29	ug/L		F	0.05			G	STD
GS11	SL	5/1/2019	RFS01-06.1905018-015	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.025	mg/L	J B	F	0.019		U	G	STD
GS11	SL	5/1/2019	RFS01-06.1905018-015	7440-61-1	Uranium	N	17	ug/L		F	0.05			G	STD
GS11	SL	5/7/2019	RFS01-05.1905019-001	14596-10-2	Americium-241	N	0.00598	pCi/L	U	F				C	GEN
GS11	SL	5/7/2019	RFS01-05.1905019-001	PU-239,240	Plutonium-239, 240	N	0.00376	pCi/L	U	F				C	GEN
GS11	SL	5/7/2019	RFS01-05.1905019-001	7440-61-1	Uranium	N	16.2	ug/L		F	0.067			C	GEN
GS11	SL	5/13/2019	RFS01-05.1905019-002	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.854	mg/L		F	0.017			G	GEN
GS11	SL	5/13/2019	RFS01-05.1905020-003	14596-10-2	Americium-241	N	-0.00646	pCi/L	U	F				C	GEN
GS11	SL	5/13/2019	RFS01-05.1905020-003	PU-239,240	Plutonium-239, 240	N	0.0234	pCi/L	U	F				C	GEN
GS11	SL	5/13/2019	RFS01-05.1905020-003	7440-61-1	Uranium	N	13.3	ug/L		F	0.067			C	GEN
GS11	SL	5/15/2019	RFS01-04.1905021-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.55	mg/L	B	F	0.019			G	STD
GS11	SL	5/15/2019	RFS01-04.1905021-015	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.54	mg/L	B	D	0.019			G	STD
GS11	SL	5/15/2019	RFS01-04.1905021-013	7440-61-1	Uranium	N	13	ug/L		F	0.05			G	STD
GS11	SL	5/15/2019	RFS01-04.1905021-015	7440-61-1	Uranium	N	13	ug/L		D	0.05			G	STD
GS11	SL	5/24/2019	RFS01-05.1906021-003	14596-10-2	Americium-241	N	-0.0025	pCi/L	U	F				C	GEN

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
GS11	SL	5/24/2019	RFS01-05.1906021-003	PU-239,240	Plutonium-239, 240	N	0.0234	pCi/L	U	F				C	GEN
GS11	SL	5/24/2019	RFS01-02.1905016-003	TSS	Total Suspended Solids	N	19	mg/L		F	2.0			C	STD
GS11	SL	5/24/2019	RFS01-05.1906021-003	7440-61-1	Uranium	N	10.8	ug/L		F	0.067			C	GEN
GS11	SL	5/24/2019	RFS01-05.1905020-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.514	mg/L		F	0.017			G	GEN
GS11	SL	5/29/2019	RFS01-05.1906022-003	14596-10-2	Americium-241	N	0.00507	pCi/L	U	F				C	GEN
GS11	SL	5/29/2019	RFS01-05.1906022-003	PU-239,240	Plutonium-239, 240	N	0.0155	pCi/L	U	F				C	GEN
GS11	SL	5/29/2019	RFS01-05.1906022-003	7440-61-1	Uranium	N	8.61	ug/L		F	0.067			C	GEN
GS11	SL	5/29/2019	RFS01-05.1906021-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.2	mg/L		F	0.085		J	G	GEN
GS11	SL	5/30/2019	RFS01-06.1905019-015	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.2	mg/L	B	F	0.019			G	STD
GS11	SL	5/30/2019	RFS01-06.1905019-015	7440-61-1	Uranium	N	7.8	ug/L		F	0.05			G	STD
GS11	SL	6/6/2019	RFS01-05.1906022-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.35	mg/L		F	0.017			G	GEN
GS11	SL	6/6/2019	RFS01-05.1906022-008	14596-10-2	Americium-241	N	0.00753	pCi/L	U	F				C	GEN
GS11	SL	6/6/2019	RFS01-05.1906022-008	PU-239,240	Plutonium-239, 240	N	0.00784	pCi/L	U	F				C	GEN
GS11	SL	6/6/2019	RFS01-05.1906022-008	7440-61-1	Uranium	N	8	ug/L		F	0.067			C	GEN
GS11	SL	6/10/2019	RFS01-05.1906022-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.405	mg/L		F	0.017			G	GEN
GS11	SL	6/10/2019	RFS01-05.1907024-003	14596-10-2	Americium-241	N	-0.00868	pCi/L	U	F				C	GEN
GS11	SL	6/10/2019	RFS01-05.1907024-003	PU-239,240	Plutonium-239, 240	N	0.00386	pCi/L	U	F				C	GEN
GS11	SL	6/10/2019	RFS01-05.1907024-003	7440-61-1	Uranium	N	6.86	ug/L		F	0.067			C	GEN
GS11	SL	6/13/2019	RFS01-04.1906022-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.067	mg/L		F	0.019			G	STD
GS11	SL	6/13/2019	RFS01-04.1906022-013	7440-61-1	Uranium	N	9.2	ug/L		F	0.4			G	STD
GS11	SL	6/26/2019	RFS01-06.1906020-015	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
GS11	SL	6/26/2019	RFS01-06.1906020-015	7440-61-1	Uranium	N	7.5	ug/L		F	0.05			G	STD
GS11	SL	7/2/2019	RFS01-05.1907024-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.017	mg/L	U	F	0.017			G	GEN
GS11	SL	7/15/2019	RFS01-04.1907025-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
GS11	SL	7/15/2019	RFS01-04.1907025-013	7440-61-1	Uranium	N	5.9	ug/L		F	0.05			G	STD
GS11	SL	1/15/2020	RFS01-04.2001032-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
GS11	SL	1/15/2020	RFS01-04.2001032-013	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	D	0.019			G	STD
GS11	SL	1/15/2020	RFS01-04.2001032-013	7440-61-1	Uranium	N	12	ug/L		F	0.05			G	STD
GS11	SL	1/15/2020	RFS01-04.2001032-013	7440-61-1	Uranium	N	13	ug/L		D	0.05			G	STD
GS12	SL	5/1/2019	RFS01-05.1905019-003	7440-61-1	Uranium	N	13.2	ug/L		F	0.067			C	GEN
GS12	SL	5/13/2019	RFS01-05.1905020-005	7440-61-1	Uranium	N	9.79	ug/L		F	0.067			C	GEN
GS12	SL	5/24/2019	RFS01-05.1906021-005	7440-61-1	Uranium	N	6.2	ug/L		F	0.067			C	GEN
GS12	SL	5/29/2019	RFS01-05.1906022-005	7440-61-1	Uranium	N	7.49	ug/L		F	0.067			C	GEN
GS12	SL	6/6/2019	RFS01-05.1906023-005	7440-61-1	Uranium	N	7.07	ug/L		F	0.067			C	GEN
GS12	SL	6/25/2019	RFS01-04.1907025-008	7440-61-1	Uranium	N	5.4	ug/L		F	0.05			C	STD
GS12	SL	7/11/2019	RFS01-05.1907025-005	7440-61-1	Uranium	N	7.03	ug/L		F	0.067			C	GEN
GS13	SL	1/3/2019	RFS01-01.1904013-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	7.45	mg/L	H	F	0.170			C	GEN
GS13	SL	1/3/2019	RFS01-01.1904013-001	7440-61-1	Uranium	N	14.7	ug/L		F	0.067			C	GEN
GS13	SL	4/8/2019	RFS01-04.1904020-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	5.25	mg/L		F	0.425			C	GEN
GS13	SL	4/8/2019	RFS01-04.1904020-007	7440-61-1	Uranium	N	7.68	ug/L		F	0.067			C	GEN
GS13	SL	4/18/2019	RFS01-02.1905014-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.2	mg/L	B	F	0.019		J	C	STD
GS13	SL	4/18/2019	RFS01-02.1905014-004	7440-61-1	Uranium	N	4.9	ug/L		F	0.05			C	STD
GS13	SL	5/1/2019	RFS01-06.1905018-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.2	mg/L	B	F	0.019			G	STD
GS13	SL	5/1/2019	RFS01-06.1905018-005	7440-61-1	Uranium	N	7.4	ug/L		F	0.05			G	STD
GS13	SL	5/1/2019	RFS01-01.1905015-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	5	mg/L		F	0.170			C	GEN
GS13	SL	5/1/2019	RFS01-01.1905015-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.88	mg/L		D	0.170			C	GEN
GS13	SL	5/1/2019	RFS01-01.1905015-001	7440-61-1	Uranium	N	6.46	ug/L		F	0.067			C	GEN
GS13	SL	5/1/2019	RFS01-01.1905015-007	7440-61-1	Uranium	N	6.18	ug/L		D	0.067			C	GEN
GS13	SL	5/13/2019	RFS01-01.1905016-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	5.19	mg/L		F	0.170			C	GEN
GS13	SL	5/13/2019	RFS01-01.1905016-001	7440-61-1	Uranium	N	5.59	ug/L		F	0.067			C	GEN
GS13	SL	5/15/2019	RFS01-04.1905021-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	2.1	mg/L	B	F	0.019			G	STD
GS13	SL	5/15/2019	RFS01-04.1905021-007	7440-61-1	Uranium	N	5.3	ug/L		F	0.05			G	STD
GS13	SL	5/24/2019	RFS01-01.1906017-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.53	mg/L		F	0.085		J	C	GEN
GS13	SL	5/24/2019	RFS01-01.1906017-001	7440-61-1	Uranium	N	3.75	ug/L		F	0.067			C	GEN
GS13	SL	5/29/2019	RFS01-01.1906018-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.56	mg/L		F	0.085			C	GEN
GS13	SL	5/29/2019	RFS01-01.1906018-001	7440-61-1	Uranium	N	5.23	ug/L		F	0.067			C	GEN
GS13	SL	5/30/2019	RFS01-06.1905019-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.4	mg/L	B	F	0.019			G	STD
GS13	SL	5/30/2019	RFS01-06.1905019-005	7440-61-1	Uranium	N	5	ug/L		F	0.05			G	STD
GS13	SL	6/6/2019	RFS01-13.1906022-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.64	mg/L		F	0.170		J	C	GEN
GS13	SL	6/6/2019	RFS01-13.1906022-001	7440-61-1	Uranium	N	7.05	ug/L		F	0.067			C	GEN
GS13	SL	6/13/2019	RFS01-04.1906022-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	2.3	mg/L		F	0.019			G	STD
GS13	SL	6/13/2019	RFS01-04.1906022-007	7440-61-1	Uranium	N	8	ug/L		F	0.4			G	STD
GS13	SL	6/25/2019	RFS01-01.1907019-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	2.14	mg/L		F	0.170			C	GEN
GS13	SL	6/25/2019	RFS01-01.1907019-001	7440-61-1	Uranium	N	3.72	ug/L		F	0.067			C	GEN
GS13	SL	6/26/2019	RFS01-06.1906020-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.7	mg/L		F	0.019			G	STD
GS13	SL	6/26/2019	RFS01-06.1906020-005	7440-61-1	Uranium	N	7.5	ug/L		F	0.05		J	G	STD
GS13	SL	7/5/2019	RFS01-04.1908027-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.5	mg/L	H	F	0.019			C	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
GS13	SL	7/5/2019	RFS01-04.1908027-007	7440-61-1	Uranium	N	0.2	ug/L	B	F	0.05		U	C	STD
GS13	SL	7/15/2019	RFS01-04.1907025-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.99	mg/L		F	0.019			G	STD
GS13	SL	7/15/2019	RFS01-04.1907025-007	7440-61-1	Uranium	N	10	ug/L		F	0.05			G	STD
GS13	SL	7/31/2019	RFS01-06.1908021-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
GS13	SL	7/31/2019	RFS01-06.1908021-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	D	0.019			G	STD
GS13	SL	7/31/2019	RFS01-06.1908021-005	7440-61-1	Uranium	N	17	ug/L		F	0.05			G	STD
GS13	SL	7/31/2019	RFS01-06.1908021-016	7440-61-1	Uranium	N	16	ug/L		D	0.05			G	STD
GS13	SL	8/15/2019	RFS01-01.2001023-001	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	6.25	mg/L	H	F	0.850			C	GEN
GS13	SL	8/15/2019	RFS01-01.2001023-001	7440-61-1	Uranium	N	12	ug/L		F	0.067			C	GEN
GS13	SL	12/3/2019	RFS01-06.1912025-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.3	mg/L		F	0.019			G	STD
GS13	SL	12/3/2019	RFS01-06.1912025-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	4.4	mg/L		D	0.019			G	STD
GS13	SL	12/3/2019	RFS01-06.1912025-005	7440-61-1	Uranium	N	9	ug/L		F	0.05			G	STD
GS13	SL	12/3/2019	RFS01-06.1912025-016	7440-61-1	Uranium	N	8.8	ug/L		D	0.05			G	STD
GS13	SL	12/17/2019	RFS01-04.1912031-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	6.8	mg/L		F	0.019			G	STD
GS13	SL	12/17/2019	RFS01-04.1912031-007	7440-61-1	Uranium	N	12	ug/L		F	0.05			G	STD
GS13	SL	12/30/2019	RFS01-06.1912026-005	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	6.3	mg/L		F	0.019			G	STD
GS13	SL	12/30/2019	RFS01-06.1912026-005	7440-61-1	Uranium	N	14	ug/L		F	0.05			G	STD
GS13	SL	1/15/2020	RFS01-04.2001032-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	8.6	mg/L		F	0.038			G	STD
GS13	SL	1/15/2020	RFS01-04.2001032-007	7440-61-1	Uranium	N	15	ug/L		F	0.05			G	STD
GS31	SL	4/15/2019	RFS01-05.1905020-001	14596-10-2	Americium-241	N	0	pCi/L	U	F				C	GEN
GS31	SL	4/15/2019	RFS01-05.1905020-001	PU-239,240	Plutonium-239, 240	N	0.0337	pCi/L	U	F				C	GEN
GS31	SL	4/15/2019	RFS01-05.1905020-001	7440-61-1	Uranium	N	12.8	ug/L		F	0.067			C	GEN
GS31	SL	5/24/2019	RFS01-05.1906021-001	14596-10-2	Americium-241	N	0.0121	pCi/L	U	F				C	GEN
GS31	SL	5/24/2019	RFS01-05.1906021-001	PU-239,240	Plutonium-239, 240	N	0.0193	pCi/L	U	F				C	GEN
GS31	SL	5/24/2019	RFS01-02.1905016-004	TSS	Total Suspended Solids	N	41	mg/L		F	2.0			C	STD
GS31	SL	5/24/2019	RFS01-05.1906021-001	7440-61-1	Uranium	N	9.52	ug/L		F	0.067			C	GEN
GS31	SL	5/29/2019	RFS01-05.1906022-001	7440-61-1	Uranium	N	9.78	ug/L		F	0.067			C	GEN
GS31	SL	6/6/2019	RFS01-05.1906023-001	14596-10-2	Americium-241	N	0.0117	pCi/L	U	F				C	GEN
GS31	SL	6/6/2019	RFS01-05.1906023-001	PU-239,240	Plutonium-239, 240	N	0.0211	pCi/L	U	F				C	GEN
GS31	SL	6/6/2019	RFS01-05.1906023-001	7440-61-1	Uranium	N	9.59	ug/L		F	0.067			C	GEN
GS31	SL	6/26/2019	RFS01-05.1907025-001	14596-10-2	Americium-241	N	-0.00234	pCi/L	U	F				C	GEN
GS31	SL	6/26/2019	RFS01-05.1907025-001	PU-239,240	Plutonium-239, 240	N	0.00166	pCi/L	U	F				C	GEN
GS31	SL	6/26/2019	RFS01-05.1907025-001	7440-61-1	Uranium	N	9.15	ug/L		F	0.067			C	GEN
SPOUT	TS	5/1/2019	RFS01-06.1905018-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	18	mg/L	B	F	0.038			G	STD
SPOUT	TS	5/1/2019	RFS01-06.1905018-007	7440-61-1	Uranium	N	51	ug/L		F	0.05			G	STD
SPOUT	TS	5/15/2019	RFS01-04.1905021-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.12	mg/L	B	F	0.019		U	G	STD
SPOUT	TS	5/15/2019	RFS01-04.1905021-006	7440-61-1	Uranium	N	35	ug/L		F	0.05			G	STD
SPOUT	TS	5/30/2019	RFS01-06.1905019-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.08	mg/L	B	F	0.019		U	G	STD
SPOUT	TS	5/30/2019	RFS01-06.1905019-007	7440-61-1	Uranium	N	19	ug/L		F	0.05			G	STD
SPOUT	TS	6/13/2019	RFS01-04.1906022-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.021	mg/L	J	F	0.019			G	STD
SPOUT	TS	6/13/2019	RFS01-04.1906022-006	7440-61-1	Uranium	N	65	ug/L		F	0.4			G	STD
SPOUT	TS	6/26/2019	RFS01-06.1906020-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.6	mg/L		F	0.019			G	STD
SPOUT	TS	6/26/2019	RFS01-06.1906020-007	7440-61-1	Uranium	N	54	ug/L		F	0.05			G	STD
SPOUT	TS	7/15/2019	RFS01-04.1907025-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	7/15/2019	RFS01-04.1907025-006	7440-61-1	Uranium	N	29	ug/L		F	0.05			G	STD
SPOUT	TS	7/31/2019	RFS01-06.1908021-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	7/31/2019	RFS01-06.1908021-007	7440-61-1	Uranium	N	37	ug/L		F	0.05			G	STD
SPOUT	TS	8/15/2019	RFS01-04.1908026-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	8/15/2019	RFS01-04.1908026-006	7440-61-1	Uranium	N	44	ug/L		F	0.05			G	STD
SPOUT	TS	8/29/2019	RFS01-06.1908022-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	8/29/2019	RFS01-06.1908022-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	D	0.019			G	STD
SPOUT	TS	8/29/2019	RFS01-06.1908022-007	7440-61-1	Uranium	N	57	ug/L		F	0.05		J	G	STD
SPOUT	TS	8/29/2019	RFS01-06.1908022-016	7440-61-1	Uranium	N	58	ug/L		D	0.05		J	G	STD
SPOUT	TS	9/16/2019	RFS01-04.1909028-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.072	mg/L	B	F	0.019		U	G	STD
SPOUT	TS	9/16/2019	RFS01-04.1909028-006	7440-61-1	Uranium	N	32	ug/L		F	0.05			G	STD
SPOUT	TS	10/2/2019	RFS01-06.1910023-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	10/2/2019	RFS01-06.1910023-007	7440-61-1	Uranium	N	28	ug/L	W	F	0.05			G	STD
SPOUT	TS	10/15/2019	RFS01-04.1910029-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	10/15/2019	RFS01-04.1910029-006	7440-61-1	Uranium	N	43	ug/L		F	0.05			G	STD
SPOUT	TS	10/31/2019	RFS01-06.1910024-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	10/31/2019	RFS01-06.1910024-007	7440-61-1	Uranium	N	50	ug/L		F	0.05			G	STD
SPOUT	TS	11/15/2019	RFS01-04.1911030-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	11/15/2019	RFS01-04.1911030-015	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	D	0.019			G	STD
SPOUT	TS	11/15/2019	RFS01-04.1911030-006	7440-61-1	Uranium	N	54	ug/L		F	0.05			G	STD
SPOUT	TS	11/15/2019	RFS01-04.1911030-015	7440-61-1	Uranium	N	52	ug/L		D	0.05			G	STD
SPOUT	TS	12/3/2019	RFS01-06.1912025-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.022	mg/L	J	F	0.019			G	STD
SPOUT	TS	12/3/2019	RFS01-06.1912025-007	7440-61-1	Uranium	N	56	ug/L		F	0.05			G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
SPOUT	TS	12/17/2019	RFS01-04.1912031-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	12/17/2019	RFS01-04.1912031-006	7440-61-1	Uranium	N	30	ug/L		F	0.05			G	STD
SPOUT	TS	12/30/2019	RFS01-06.1912026-007	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SPOUT	TS	12/30/2019	RFS01-06.1912026-007	7440-61-1	Uranium	N	34	ug/L		F	0.05			G	STD
SPOUT	TS	1/15/2020	RFS01-04.2001032-006	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	14	mg/L		F	0.038			G	STD
SPOUT	TS	1/15/2020	RFS01-04.2001032-006	7440-61-1	Uranium	N	66	ug/L		F	0.05			G	STD
SW093	SL	1/3/2019	RFS01-01.1904012-003	14596-10-2	Americium-241	N	-0.0689	pCi/L	U	F				C	GEN
SW093	SL	1/3/2019	RFS01-01.1904012-003	PU-239,240	Plutonium-239, 240	N	0.00302	pCi/L	U	F				C	GEN
SW093	SL	1/3/2019	RFS01-01.1904012-003	7440-61-1	Uranium	N	5.25	ug/L		F	0.067			C	GEN
SW093	SL	3/28/2019	RFS01-13.1904015-003	14596-10-2	Americium-241	N	0.00268	pCi/L	U	F				C	GEN
SW093	SL	3/28/2019	RFS01-13.1904015-003	PU-239,240	Plutonium-239, 240	N	0.00336	pCi/L	U	F				C	GEN
SW093	SL	3/28/2019	RFS01-13.1904015-003	7440-61-1	Uranium	N	3.28	ug/L		F	0.067			C	GEN
SW093	SL	4/25/2019	RFS01-01.1905015-006	14596-10-2	Americium-241	N	0.00767	pCi/L	U	F				C	GEN
SW093	SL	4/25/2019	RFS01-01.1905015-006	PU-239,240	Plutonium-239, 240	N	0.00745	pCi/L	U	F				C	GEN
SW093	SL	4/25/2019	RFS01-01.1905015-006	7440-61-1	Uranium	N	3.5	ug/L		F	0.067			C	GEN
SW093	SL	5/1/2019	RFS01-06.1905018-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.15	mg/L	B	F	0.019			G	STD
SW093	SL	5/1/2019	RFS01-06.1905018-008	7440-61-1	Uranium	N	2.8	ug/L		F	0.05			G	STD
SW093	SL	5/13/2019	RFS01-01.1905016-006	14596-10-2	Americium-241	N	0.00183	pCi/L	U	F				C	GEN
SW093	SL	5/13/2019	RFS01-01.1905016-006	PU-239,240	Plutonium-239, 240	N	0.00916	pCi/L	U	F				C	GEN
SW093	SL	5/13/2019	RFS01-01.1905016-006	7440-61-1	Uranium	N	4.23	ug/L		F	0.067			C	GEN
SW093	SL	5/15/2019	RFS01-04.1905021-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.14	mg/L	B	F	0.019		U	G	STD
SW093	SL	5/15/2019	RFS01-04.1905021-004	7440-61-1	Uranium	N	1.6	ug/L		F	0.05			G	STD
SW093	SL	5/24/2019	RFS01-01.1906017-006	14596-10-2	Americium-241	N	0.0165	pCi/L	U	F				C	GEN
SW093	SL	5/24/2019	RFS01-01.1906017-006	PU-239,240	Plutonium-239, 240	N	0.00164	pCi/L	U	F				C	GEN
SW093	SL	5/24/2019	RFS01-02.1905016-005	TSS	Total Suspended Solids	N	13	mg/L		F	2.0			C	STD
SW093	SL	5/24/2019	RFS01-01.1906017-006	7440-61-1	Uranium	N	3.3	ug/L		F	0.067			C	GEN
SW093	SL	5/29/2019	RFS01-01.1906018-006	14596-10-2	Americium-241	N	0.00739	pCi/L	U	F				C	GEN
SW093	SL	5/29/2019	RFS01-01.1906018-006	PU-239,240	Plutonium-239, 240	N	-1.86E-09	pCi/L	U	F				C	GEN
SW093	SL	5/29/2019	RFS01-01.1906018-006	7440-61-1	Uranium	N	4.31	ug/L		F	0.067			C	GEN
SW093	SL	5/30/2019	RFS01-06.1905019-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	3.1	mg/L	B	F	0.019			G	STD
SW093	SL	5/30/2019	RFS01-06.1905019-008	7440-61-1	Uranium	N	3.8	ug/L		F	0.05			G	STD
SW093	SL	6/6/2019	RFS01-01.1906018-007	14596-10-2	Americium-241	N	-0.0125	pCi/L	U	F				C	GEN
SW093	SL	6/6/2019	RFS01-01.1906018-007	PU-239,240	Plutonium-239, 240	N	0.00713	pCi/L	U	F				C	GEN
SW093	SL	6/6/2019	RFS01-01.1906018-007	7440-61-1	Uranium	N	2.54	ug/L		F	0.067			C	GEN
SW093	SL	6/10/2019	RFS01-13.1906022-006	14596-10-2	Americium-241	N	0.00697	pCi/L	U	F				C	GEN
SW093	SL	6/10/2019	RFS01-13.1906022-006	PU-239,240	Plutonium-239, 240	N	0.00195	pCi/L	U	F				C	GEN
SW093	SL	6/10/2019	RFS01-13.1906022-006	7440-61-1	Uranium	N	5.74	ug/L		F	0.067			C	GEN
SW093	SL	6/13/2019	RFS01-04.1906022-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	2	mg/L		F	0.019			G	STD
SW093	SL	6/13/2019	RFS01-04.1906022-004	7440-61-1	Uranium	N	5.1	ug/L		F	0.4			G	STD
SW093	SL	6/25/2019	RFS01-01.1907019-006	14596-10-2	Americium-241	N	-0.00776	pCi/L	U	F				C	GEN
SW093	SL	6/25/2019	RFS01-01.1907019-009	14596-10-2	Americium-241	N	0.00741	pCi/L	U	D				C	GEN
SW093	SL	6/25/2019	RFS01-01.1907019-006	PU-239,240	Plutonium-239, 240	N	0.0162	pCi/L	U	F				C	GEN
SW093	SL	6/25/2019	RFS01-01.1907019-009	PU-239,240	Plutonium-239, 240	N	0.00273	pCi/L	U	D				C	GEN
SW093	SL	6/25/2019	RFS01-01.1907019-006	7440-61-1	Uranium	N	2.49	ug/L		F	0.067			C	GEN
SW093	SL	6/25/2019	RFS01-01.1907019-009	7440-61-1	Uranium	N	2.44	ug/L		D	0.067			C	GEN
SW093	SL	6/26/2019	RFS01-06.1906020-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SW093	SL	6/26/2019	RFS01-06.1906020-008	7440-61-1	Uranium	N	3	ug/L		F	0.05			G	STD
SW093	SL	7/5/2019	RFS01-13.1907026-002	14596-10-2	Americium-241	N	0.0108	pCi/L	U	F				C	GEN
SW093	SL	7/5/2019	RFS01-13.1907026-002	PU-239,240	Plutonium-239, 240	N	0.00237	pCi/L	U	F				C	GEN
SW093	SL	7/5/2019	RFS01-13.1907026-002	7440-61-1	Uranium	N	3.16	ug/L		F	0.067			C	GEN
SW093	SL	7/15/2019	RFS01-04.1907025-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.051	mg/L		F	0.019			G	STD
SW093	SL	7/15/2019	RFS01-04.1907025-004	7440-61-1	Uranium	N	2.6	ug/L	W	F	0.05		J	G	STD
SW093	SL	7/24/2019	RFS01-01.2001023-006	14596-10-2	Americium-241	N	0.00859	pCi/L	U	F				C	GEN
SW093	SL	7/24/2019	RFS01-01.2001023-006	PU-239,240	Plutonium-239, 240	N	0.00845	pCi/L	U	F				C	GEN
SW093	SL	7/24/2019	RFS01-01.2001023-006	7440-61-1	Uranium	N	4.86	ug/L		F	0.067			C	GEN
SW093	SL	7/31/2019	RFS01-06.1908021-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.2	mg/L		F	0.019			G	STD
SW093	SL	7/31/2019	RFS01-06.1908021-008	7440-61-1	Uranium	N	4.2	ug/L		F	0.05			G	STD
SW093	SL	8/15/2019	RFS01-04.1908026-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SW093	SL	8/15/2019	RFS01-04.1908026-004	7440-61-1	Uranium	N	4.7	ug/L		F	0.05			G	STD
SW093	SL	8/29/2019	RFS01-06.1908022-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
SW093	SL	8/29/2019	RFS01-06.1908022-008	7440-61-1	Uranium	N	7.3	ug/L		F	0.05			G	STD
SW093	SL	9/16/2019	RFS01-04.1909028-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.073	mg/L	B	F	0.019		U	G	STD
SW093	SL	9/16/2019	RFS01-04.1909028-004	7440-61-1	Uranium	N	6.5	ug/L		F	0.05			G	STD
SW093	SL	10/2/2019	RFS01-06.1910023-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.52	mg/L		F	0.019			G	STD
SW093	SL	10/2/2019	RFS01-06.1910023-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.49	mg/L		D	0.019			G	STD
SW093	SL	10/2/2019	RFS01-06.1910023-006	7440-61-1	Uranium	N	6.6	ug/L		F	0.05			G	STD
SW093	SL	10/2/2019	RFS01-06.1910023-016	7440-61-1	Uranium	N	6.3	ug/L		D	0.05			G	STD

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
SW093	SL	10/15/2019	RFS01-04.1910029-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.98	mg/L		F	0.019			G	STD
SW093	SL	10/15/2019	RFS01-04.1910029-004	7440-61-1	Uranium	N	6.8	ug/L		F	0.05			G	STD
SW093	SL	10/31/2019	RFS01-06.1910024-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.7	mg/L		F	0.019			G	STD
SW093	SL	10/31/2019	RFS01-06.1910024-008	7440-61-1	Uranium	N	6	ug/L		F	0.05			G	STD
SW093	SL	11/15/2019	RFS01-04.1911030-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	1.1	mg/L		F	0.019			G	STD
SW093	SL	11/15/2019	RFS01-04.1911030-004	7440-61-1	Uranium	N	8	ug/L		F	0.05			G	STD
SW093	SL	12/3/2019	RFS01-06.1912025-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.79	mg/L		F	0.019			G	STD
SW093	SL	12/3/2019	RFS01-06.1912025-008	7440-61-1	Uranium	N	3.4	ug/L		F	0.05			G	STD
SW093	SL	12/17/2019	RFS01-04.1912031-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.034	mg/L	J	F	0.019			G	STD
SW093	SL	12/17/2019	RFS01-04.1912031-004	7440-61-1	Uranium	N	2.5	ug/L		F	0.05			G	STD
SW093	SL	12/30/2019	RFS01-06.1912026-008	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.48	mg/L		F	0.019			G	STD
SW093	SL	12/30/2019	RFS01-06.1912026-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.49	mg/L		D	0.019			G	STD
SW093	SL	12/30/2019	RFS01-06.1912026-008	7440-61-1	Uranium	N	3.3	ug/L		F	0.05			G	STD
SW093	SL	12/30/2019	RFS01-06.1912026-016	7440-61-1	Uranium	N	3.4	ug/L		D	0.05			G	STD
SW093	SL	1/15/2020	RFS01-04.2001032-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.36	mg/L		F	0.019			G	STD
SW093	SL	1/15/2020	RFS01-04.2001032-004	7440-61-1	Uranium	N	4.6	ug/L		F	0.05			G	STD
WALPOC	SL	5/1/2019	RFS01-06.1905018-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.029	mg/L	J B	F	0.019		U	G	STD
WALPOC	SL	5/1/2019	RFS01-06.1905018-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.031	mg/L	J B	D	0.019		U	G	STD
WALPOC	SL	5/24/2019	RFS01-13.1906018-003	14596-10-2	Americium-241	N	0.0189	pCi/L	U	F				C	GEN
WALPOC	SL	5/24/2019	RFS01-13.1906018-003	PU-239,240	Plutonium-239, 240	N	0.0224	pCi/L	U	F				C	GEN
WALPOC	SL	5/24/2019	RFS01-02.1905016-006	TSS	Total Suspended Solids	N	34	mg/L		F	2.0			C	STD
WALPOC	SL	5/24/2019	RFS01-13.1906018-003	7440-61-1	Uranium	N	10.8	ug/L		F	0.067			C	GEN
WALPOC	SL	5/29/2019	RFS01-13.1906018-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.59	mg/L		F	0.085		J	G	GEN
WALPOC	SL	5/29/2019	RFS01-13.1906019-003	14596-10-2	Americium-241	N	0.011	pCi/L	U	F				C	GEN
WALPOC	SL	5/29/2019	RFS01-13.1906019-003	PU-239,240	Plutonium-239, 240	N	0.00711	pCi/L	U	F				C	GEN
WALPOC	SL	5/29/2019	RFS01-13.1906019-003	7440-61-1	Uranium	N	9.61	ug/L		F	0.067			C	GEN
WALPOC	SL	5/30/2019	RFS01-06.1905019-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.46	mg/L	B	F	0.019			G	STD
WALPOC	SL	6/6/2019	RFS01-13.1906019-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.132	mg/L		F	0.017			G	GEN
WALPOC	SL	6/6/2019	RFS01-13.1906019-009	14596-10-2	Americium-241	N	0.0046	pCi/L	U	F				C	GEN
WALPOC	SL	6/6/2019	RFS01-13.1906019-009	PU-239,240	Plutonium-239, 240	N	0.00389	pCi/L	U	F				C	GEN
WALPOC	SL	6/6/2019	RFS01-13.1906019-009	7440-61-1	Uranium	N	8.36	ug/L		F	0.067			C	GEN
WALPOC	SL	6/10/2019	RFS01-13.1906019-010	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.0882	mg/L		F	0.017			G	GEN
WALPOC	SL	6/10/2019	RFS01-13.1906021-003	14596-10-2	Americium-241	N	-0.0103	pCi/L	U	F				C	GEN
WALPOC	SL	6/10/2019	RFS01-13.1906021-003	PU-239,240	Plutonium-239, 240	N	0.00688	pCi/L	U	F				C	GEN
WALPOC	SL	6/10/2019	RFS01-13.1906021-003	7440-61-1	Uranium	N	7.26	ug/L	E	F	0.067		J	C	GEN
WALPOC	SL	6/25/2019	RFS01-13.1906021-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.017	mg/L	U	F	0.017		J	G	GEN
WALPOC	SL	6/25/2019	RFS01-13.1907023-003	14596-10-2	Americium-241	N	0.00981	pCi/L	U	F				C	GEN
WALPOC	SL	6/25/2019	RFS01-13.1907023-003	PU-239,240	Plutonium-239, 240	N	0.00584	pCi/L	U	F				C	GEN
WALPOC	SL	6/25/2019	RFS01-13.1907023-003	7440-61-1	Uranium	N	5.62	ug/L		F	0.067			C	GEN
WALPOC	SL	6/26/2019	RFS01-06.1906020-014	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
WALPOC	SL	7/5/2019	RFS01-13.1907023-004	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.017	mg/L	U	F	0.017			G	GEN
WALPOC	SL	7/5/2019	RFS01-13.1907025-003	14596-10-2	Americium-241	N	0.00963	pCi/L	U	F				C	GEN
WALPOC	SL	7/5/2019	RFS01-13.1907025-003	PU-239,240	Plutonium-239, 240	N	0.00233	pCi/L	U	F				C	GEN
WALPOC	SL	7/5/2019	RFS01-13.1907025-003	7440-61-1	Uranium	N	6.51	ug/L		F	0.067			C	GEN
WOMPOC	SL	1/31/2019	RFS01-06.1902014-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019		J	G	STD
WOMPOC	SL	2/28/2019	RFS01-06.1903015-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
WOMPOC	SL	3/28/2019	RFS01-06.1903016-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.02	mg/L	J	F	0.019		U	G	STD
WOMPOC	SL	5/1/2019	RFS01-06.1905018-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.028	mg/L	J B	F	0.019		U	G	STD
WOMPOC	SL	5/24/2019	RFS01-13.1906018-002	14596-10-2	Americium-241	N	0.0113	pCi/L	U	F				C	GEN
WOMPOC	SL	5/24/2019	RFS01-13.1906018-002	PU-239,240	Plutonium-239, 240	N	0.00929	pCi/L	U	F				C	GEN
WOMPOC	SL	5/24/2019	RFS01-02.1905016-007	TSS	Total Suspended Solids	N	7.9	mg/L		F	2.0			C	STD
WOMPOC	SL	5/24/2019	RFS01-13.1906018-002	7440-61-1	Uranium	N	1.71	ug/L		F	0.067			C	GEN
WOMPOC	SL	5/29/2019	RFS01-13.1906019-002	14596-10-2	Americium-241	N	-0.0066	pCi/L	U	F				C	GEN
WOMPOC	SL	5/29/2019	RFS01-13.1906019-002	PU-239,240	Plutonium-239, 240	N	0	pCi/L	U	F				C	GEN
WOMPOC	SL	5/29/2019	RFS01-13.1906019-002	7440-61-1	Uranium	N	1.64	ug/L		F	0.067			C	GEN
WOMPOC	SL	5/30/2019	RFS01-06.1905019-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.025	mg/L	J B N	F	0.019		U	G	STD
WOMPOC	SL	5/30/2019	RFS01-06.1905019-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.025	mg/L	J B	D	0.019		U	G	STD
WOMPOC	SL	6/6/2019	RFS01-13.1906019-008	14596-10-2	Americium-241	N	0.00242	pCi/L	U	F				C	GEN
WOMPOC	SL	6/6/2019	RFS01-13.1906019-008	PU-239,240	Plutonium-239, 240	N	0.00751	pCi/L	U	F				C	GEN
WOMPOC	SL	6/6/2019	RFS01-13.1906019-008	7440-61-1	Uranium	N	1.29	ug/L		F	0.067			C	GEN
WOMPOC	SL	6/10/2019	RFS01-13.1906021-002	14596-10-2	Americium-241	N	0.00506	pCi/L	U	F				C	GEN
WOMPOC	SL	6/10/2019	RFS01-13.1906021-002	PU-239,240	Plutonium-239, 240	N	0	pCi/L	U	F				C	GEN
WOMPOC	SL	6/10/2019	RFS01-13.1906021-002	7440-61-1	Uranium	N	2.45	ug/L	E	F	0.067		J	C	GEN
WOMPOC	SL	6/26/2019	RFS01-06.1906020-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.98	mg/L		F	0.019			G	STD
WOMPOC	SL	7/11/2019	RFS01-13.1911028-002	14596-10-2	Americium-241	N	0	pCi/L	U	F				C	GEN
WOMPOC	SL	7/11/2019	RFS01-13.1911028-002	PU-239,240	Plutonium-239, 240	N	0.00758	pCi/L	U	F				C	GEN
WOMPOC	SL	7/11/2019	RFS01-13.1911028-002	7440-61-1	Uranium	N	2.08	ug/L		F	0.067			C	GEN

Table 12. Analytical Results for Water Samples

LOCATION CODE	LOCATION TYPE	DATE SAMPLED	SAMPLE CODE	CAS	ANALYTE	FILTRATION STATUS	RESULT	UNITS	LAB QUALIFIERS	SAMPLE TYPE	DETECTION LIMIT	UNCERTAINTY	DATA VALIDATION QUALIFIERS	COLLECTION METHOD	LAB CODE
WOMPOC	SL	10/31/2019	RFS01-06.1910024-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD
WOMPOC	SL	10/31/2019	RFS01-06.1910024-016	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	D	0.019			G	STD
WOMPOC	SL	10/31/2019	RFS01-05.1912027-001	14596-10-2	Americium-241	N	0.00443	pCi/L	U	F				C	GEN
WOMPOC	SL	10/31/2019	RFS01-05.1912027-001	PU-239,240	Plutonium-239, 240	N	0.008	pCi/L	U	F				C	GEN
WOMPOC	SL	10/31/2019	RFS01-05.1912027-001	7440-61-1	Uranium	N	1.85	ug/L		F	0.067			C	GEN
WOMPOC	SL	12/5/2019	RFS01-06.1912025-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.13	mg/L		F	0.019			G	STD
WOMPOC	SL	12/9/2019	RFS01-01.2001023-010	14596-10-2	Americium-241	N	0.00425	pCi/L	U	F				C	GEN
WOMPOC	SL	12/9/2019	RFS01-01.2001023-010	PU-239,240	Plutonium-239, 240	N	-0.00427	pCi/L	U	F				C	GEN
WOMPOC	SL	12/9/2019	RFS01-01.2001023-010	7440-61-1	Uranium	N	2.3	ug/L		F	0.067			C	GEN
WOMPOC	SL	12/30/2019	RFS01-06.1912026-009	NO3+NO2 AS N	Nitrate + Nitrite as Nitrogen	N	0.019	mg/L	U	F	0.019			G	STD

EXPLANATION

FILTRATION STATUS

N = Sample was not filtered.
Y = Sample was filtered.

UNITS

mg/L: ppm = milligrams per liter
pCi/L = picocuries per liter
ug/L = micrograms per liter
C = degrees celsius
mS/cm = milliSiemens per centimeter
NTU = normal turbidity units
s.u. = standard pH units
uS/cm = microSiemens per centimeter
umhos/cm = microSiemens per centimeter

SAMPLE_TYPE

F = Field Sample
D = Duplicate

DATA_VALIDATION_QUALIFIERS

<blank> No qualifiers needed for result.
F Low flow sampling method used.
G Possible grout contamination, pH > 9.
J Estimated value.
L Less than 3 bore volumes purged prior to sampling.
Q Qualitative result due to sampling technique
R Unusable result.
U Parameter analyzed for but was not detected.
X Location is undefined.
999 Validation not complete

LAB_QUALIFIERS

* Replicate analysis not within control limits.
+ Correlation coefficient for MSA < 0.995.
> Result above upper detection limit.
A TIC is a suspected aldol-condensation product.
B Inorganic: Result is between the IDL and CRDL. Organic & Radiochemistry: Analyte also found in method blank.
C Pesticide result confirmed by GC-MS.
D Analyte determined in diluted sample.
E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
H Holding time expired, value suspect.
I Increased detection limit due to required dilution.
J Estimated
M GFAA duplicate injection precision not met.
N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
S Result determined by method of standard addition (MSA).
U Analytical result below detection limit.
W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

LOCATION_TYPE

SL SURFACE LOCATION GEN Gel Laboratories
TS TREATMENT SYSTEM STD Test America
WL WELL

LAB_CODE

COLLECTION_METHOD

G Grab
C Composite

Table 13. Water Sampling Events: FourthQuarter CY 2019

Location Code	Sampling Dates		Sample Info			Analytes					Sample Tracking Info
	Start	End	Collection Method	Type	Filtered	VOC	U	Nitrate	Pu/Am	TSS	Sample ID
SPOUT	10/2/2019 10:50	10/2/2019 10:50	grab	F	No		X	X			RFS01-06.1910023-007
SW093	10/2/2019 11:00	10/2/2019 11:00	grab	F	No		X	X			RFS01-06.1910023-008
SW093	10/2/2019 11:00	10/2/2019 11:00	grab	F	No		X	X			RFS01-06.1910023-016
WOMPOC	7/11/2019 11:31	10/31/2019 15:18	composite	F	No		X		X		RFS01-13.1911028-002
42505	10/7/2019 14:05	10/7/2019 14:05	grab	F	No	X					RFS01-10.1910019-023
B206989	10/7/2019 16:00	10/7/2019 16:00	grab	F	No	X		X			RFS01-10.1910019-021
B206989	10/7/2019 16:00	10/7/2019 16:00	grab	F	Yes		X				RFS01-10.1910019-021
B206989	10/7/2019 16:00	10/7/2019 16:00	grab	D	No	X		X			RFS01-10.1910019-058
B206989	10/7/2019 16:00	10/7/2019 16:00	grab	D	Yes		X				RFS01-10.1910019-058
4087	10/7/2019 16:30	10/7/2019 16:30	grab	F	No	X		X			RFS01-10.1910019-020
4087	10/7/2019 16:30	10/7/2019 16:30	grab	F	Yes		X				RFS01-10.1910019-020
11104	10/8/2019 15:30	10/8/2019 15:30	grab	F	No	X					RFS01-10.1910019-018
11104	10/8/2019 15:30	10/8/2019 15:30	grab	F	Yes		X				RFS01-10.1910019-018
00193	10/8/2019 16:25	10/8/2019 16:25	grab	F	No	X					RFS01-10.1910019-048
00193	10/8/2019 16:25	10/8/2019 16:25	grab	F	Yes		X				RFS01-10.1910019-048
89104	10/8/2019 16:30	10/8/2019 16:30	grab	F	No	X					RFS01-10.1910019-036
10304	10/9/2019 14:15	10/9/2019 14:15	grab	F	No	X		X			RFS01-10.1910019-046
10304	10/9/2019 14:15	10/9/2019 14:15	grab	F	Yes		X				RFS01-10.1910019-046
SW093	10/15/2019 10:05	10/15/2019 10:05	grab	F	No		X	X			RFS01-04.1910029-004