

Annual PFAS Monitoring Report Rocky Flats Site, Colorado Calendar Year 2021

April 2022



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

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Abbreviations

AFFF	aqueous film-forming foam
CY	calendar year
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
ng/L	nanograms per liter
PFAS	per- and polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
PLFTS	Present Landfill Treatment System
SAP	Sampling and Analysis Plan
WQCC	Water Quality Control Commission

1.0 Introduction

Per- and polyfluoroalkyl substances (PFAS) are a group of thousands of man-made chemicals that have been in use since the 1930s and are found in a variety of industrial and commercial products. Common applications include cosmetics, food packaging, stain- and water-resistant articles and treatments, nonstick coatings such as Teflon, and many others. In addition, PFAS have been used in metallurgy and have been important ingredients in aqueous film-forming foam (widely referred to by its abbreviation, AFFF) used in firefighting. Some PFAS have been identified as potentially harmful to human health and are being investigated at facilities across the nation.

In consultation with the Colorado Department of Public Health and Environment and the U.S. Environmental Protection Agency (EPA), the U.S. Department of Energy (DOE) developed a Sampling and Analysis Plan (SAP), *Sampling Plan for PFOA/PFOS at the Rocky Flats Site, Colorado* (DOE 2019), that described a limited sampling program at the Rocky Flats Site, Colorado. Eight locations were sampled to screen groundwater and surface water for the presence of two PFAS that have received the greatest scrutiny, perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS). These compounds were detected in samples collected in 2019 from the Site (DOE 2020). Two of the locations produced samples with concentrations exceeding EPA's nonenforceable drinking water health advisory limit of 70 nanograms per liter (ng/L, or parts per trillion) for the sum of the concentrations of PFOA + PFOS. These two locations are a monitoring well near the former Rocky Flats Fire Department and associated training area and the influent to the Present Landfill Treatment System (PLFTS) that treats seepage from the former landfill.

Based on the 2019 screening results, DOE developed a new SAP in 2021, *Sampling and Analysis Plan for PFAS at the Rocky Flats Site, Colorado* (DOE 2021), that specifies additional sampling to further assess the presence of PFAS at the Site. The SAP describes the special clothing, sampling preparations, sampling staff preparations, and other special requirements that are specific to collecting samples for the analysis of PFAS. The new SAP increases the number of sample locations from 8 to 12 (Figure 1). The additional monitoring locations are near the former fire department and at the PLFTS—the two locations that presented the highest concentrations of PFOA + PFOS in 2019. The target analytes were increased to 28 PFAS, including PFOA, PFOS, and other PFAS listed in Colorado Water Quality Control Commission (WQCC) Policy 20-1 (WQCC 2020), hereafter called the Colorado WQCC Policy, as well as three PFAS that are not listed in that policy. This sampling will be conducted quarterly for a total of 8 quarters (2 years). Results are provided in quarterly reports; the report for the fourth quarter of each calendar year (CY) are combined with an annual report. The quarterly reports are brief data summaries, and the annual reports include additional information. Sampling as described in this SAP began in the third quarter of CY 2021.

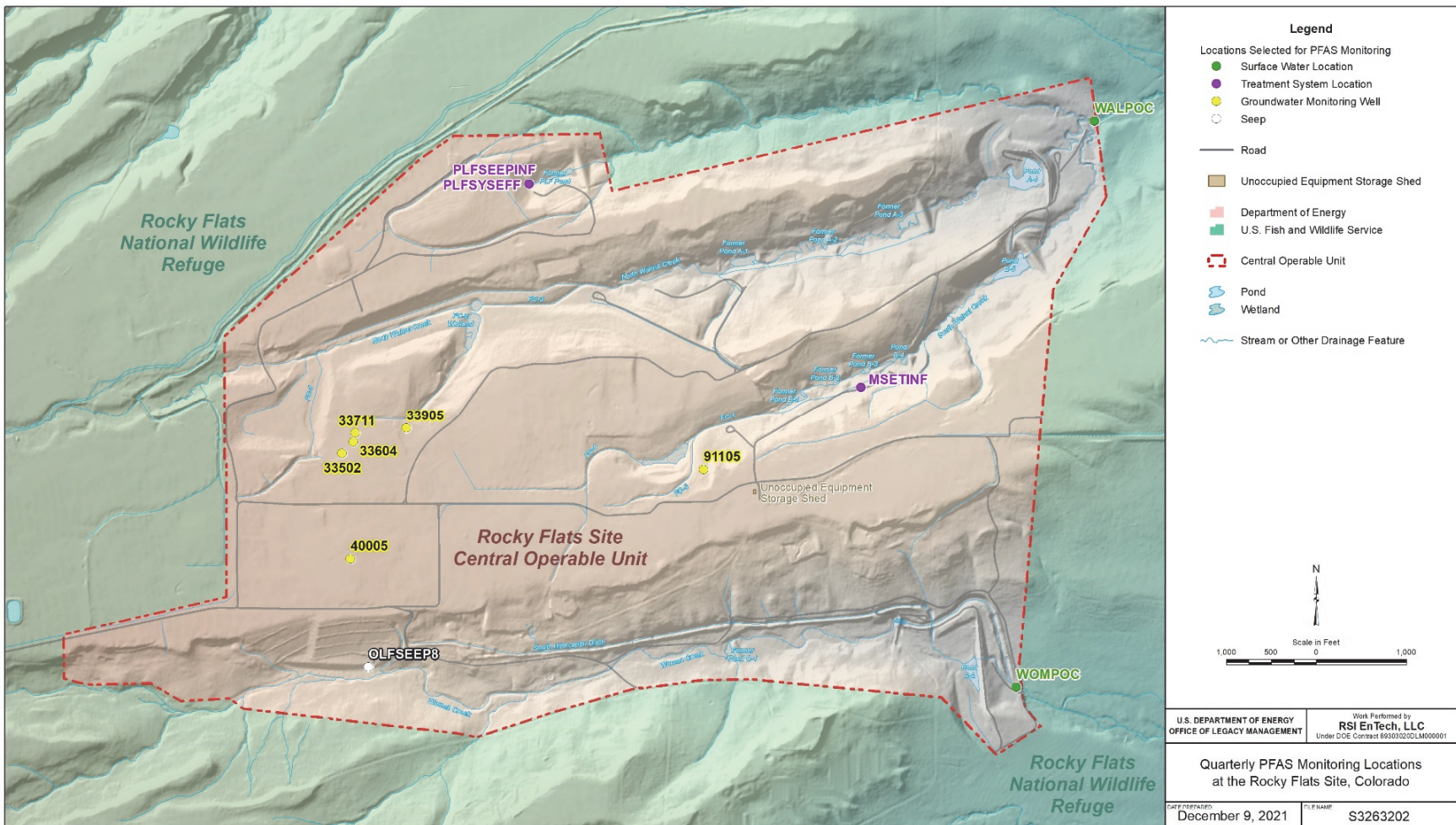


Figure 1. Central Operable Unit with PFAS Sampling Locations

2.0 Monitoring Highlights: Fourth Quarter CY 2021

The WALPOC monitoring location was dry. All other locations were successfully sampled. Sampling events are summarized in Table 1.

Table 1. PFAS Sampling Events in Fourth Quarter 2021

Location Code	Sample Date and Time	Sample Type	Sample ID
2786	10/21/2021 14:03	FB	RFS01-15.2110009-005
33502	10/21/2021 14:35	F	RFS01-15.2110009-007
33604	10/21/2021 13:50	F	RFS01-15.2110009-015
33604	10/21/2021 14:00	E	RFS01-15.2110009-004
33711	10/21/2021 13:10	F	RFS01-15.2110009-016
33905	10/21/2021 12:05	F	RFS01-15.2110009-017
33905	10/21/2021 12:05	D	RFS01-15.2110009-002
40005	10/21/2021 11:05	F	RFS01-15.2110009-008
91105	10/21/2021 16:15	F	RFS01-15.2110009-009
MSETINF	10/21/2021 15:30	F	RFS01-15.2110009-010
OLFSEEP8	10/21/2021 9:22	F	RFS01-15.2110009-011
PLFSEEPINF	10/21/2021 16:56	F	RFS01-15.2110009-012
PLFSEEPINF	10/21/2021 16:56	D	RFS01-15.2110009-003
PLFSYSEFF	10/21/2021 16:51	F	RFS01-15.2110009-018
WOMPOC	11/29/2021 8:45	F	RFS01-15.2108007-001
WOMPOC	11/29/2021 8:45	D	RFS01-15.2108007-014

Note: Refer to the SAP (DOE 2021) for additional information on sample types.

Abbreviations: D = duplicate sample, E = equipment rinse sample, F = field sample, FB = field blank

3.0 Analytical Data: Fourth Quarter CY 2021

Analytical data for the fourth quarter of CY 2021 are provided in Table 3, and field parameter data are provided in Table 4. Both tables are attached at the end of this report.

4.0 Summary of PFAS at Rocky Flats in CY 2021

Quarterly sampling for PFAS in accordance with this SAP began in the third quarter of CY 2021. Surface water locations WOMPOC and WALPOC were dry in the third quarter, and WALPOC remained dry in the fourth quarter. All other designated locations (Figure 1) produced sufficient water for sampling. Other than the dry conditions at these surface water locations, there were no difficulties in collecting samples.

Analytical results for PFAS in 2021 were similar to those obtained in 2019, the first year of PFAS monitoring. However, in 2019 only PFOA and PFOS were analyzed while the samples collected in 2021 were analyzed for those compounds plus others identified in the Colorado

WQCC Policy (WQCC 2020). Table 2 summarizes concentrations of PFOA and PFOS in 2019 and 2021 samples; the concentrations are fairly consistent over time.

Table 2. Summary of PFOA and PFOS Data, 2019 and 2021

Monitoring Wells												
Location	33502		33604		33711		33905		40005		91105	
Quarter/Year	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS
2/19	120	310	NS	NS	NS	NS	NS	NS	21	24 (J)	0.9 (J)	0.99 (U)
4/19	70 (J)	240	NS	NS	NS	NS	NS	NS	19	24	0.55 (J)	1.1 (U)
3/21	66 (J)	250 (J)	38	8.1	13	7 (J)	32	140	16	22	1.3 (J)	1 (U)
4/21	73 (J)	270 (J)	45	6.7	12	6.2	35	110	16	24	1.4 (J)	1.1 (J)

Treatment System and Surface Water Locations												
Location	MSETINF		PLFSEEPINF		PLFSYSEFF		OLFSEEP8		WOMPOC		WALPOC	
Quarter/Year	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS	PFOA	PFOS
2/19	2 (J)	1 (U)	69 (H)	23 (H)	NS	NS	7.4	3.4 (J)	1.6 (J)	1.2 (J)	13	18
4/19	1.1 (J)	1 (U)	59	20	NS	NS	7.3	3.3 (J)	1.1 (U)	1.5 (J)	1.3 (J)	2.3 (J)
3/21	1.3 (J)	1 (U)	55 (J)	21 (J)	40 (J)	17 (J)	12	4.3	D	D	D	D
4/21	1.3 (J)	1 (J)	50 (J)	17 (J)	45 (J)	15	5.9 (J)	2.1 (J)	0.54 (U)	0.56 (U)	D	D

Notes: Qualifiers: H = hold time concerns (but not so great as to assign J qualifier), J = estimated result, U = not detected at the listed detection limit.

Abbreviations: D = location was dry, NS = location was not scheduled for sampling

One deviation from the SAP (DOE 2021) occurred in both the third and fourth quarters of 2021. While the SAP lists 28 PFAS to be analyzed, one of these compounds was not analyzed. The omitted compound is also not included in the list of 25 PFAS in the Colorado WQCC Policy (WQCC 2020, Table 1), which formed the basis for the target analytes listed in the SAP (DOE 2021, Table 3). The omitted PFAS is ammonium perfluoro-2-methyl-3-oxahexanoate (HPFO-DA, GenX; CAS #62037-80-3), a PFAS salt that the laboratory does not analyze.

5.0 References

DOE (U.S. Department of Energy), 2019. *Sampling Plan for PFOA/PFOS at the Rocky Flats Site, Colorado*, LMS/RFS/S22080, Office of Legacy Management, April.

DOE (U.S. Department of Energy), 2020. *Summary Report: Results of Assessment for PFOA/PFOS at the Rocky Flats Site, Colorado*, LMS/RFS/S29191, Office of Legacy Management, April.

DOE (U.S. Department of Energy), 2021. *Sampling and Analysis Plan for PFAS at the Rocky Flats Site, Colorado*, LMS/RFS/S33207, Office of Legacy Management, July.

WQCC (Water Quality Control Commission), 2020. *Policy for Interpreting the Narrative Water Quality Standards for Per- and Polyfluoroalkyl Substances (PFAS)*, Policy 20-1, 5 CCR 1002-31 Section 31.11(1)(a)(iv) and 5 CCR 1002-41 Section 41.5(A)(1), Colorado Department of Public Health and Environment, approved July 14, expires July 31, 2025.

Table 3. Analytical Results for Water Samples

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
2785	QC	10/21/2021	RFS01-15.2110009-004	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	E	N	4.9	ng/L	U		4.9	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	27619-97-2	6:2 fluorotelomersulfonic acid	E	N	6.6	ng/L	U		6.6	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	39108-34-4	8:2 fluorotelomersulfonic acid	E	N	2.8	ng/L	U		2.8	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	E	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	E	N	2.8	ng/L	U		2.8	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	13252-13-6	Perfluoro-2-propoxypropionic acid	E	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	375-73-5	Perfluorobutanesulfonic acid (PFBS)	E	N	0.44	ng/L	U		0.44	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	375-22-4	Perfluorobutanoic acid (PFBA)	E	N	0.56	ng/L	U		0.56	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	335-77-3	Perfluorodecanesulfonic acid (PFDS)	E	N	0.53	ng/L	U		0.53	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	335-76-2	Perfluorodecanoic acid (PFDA)	E	N	0.46	ng/L	U		0.46	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	307-55-1	Perfluorododecanoic acid (PFDoA)	E	N	0.49	ng/L	U		0.49	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	E	N	0.35	ng/L	U		0.35	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	375-85-9	Perfluoroheptanoic acid (PFHpA)	E	N	0.58	ng/L	U		0.58	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	E	N	0.36	ng/L	U		0.36	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	307-24-4	Perfluorohexanoic acid (PFHxA)	E	N	0.45	ng/L	U		0.45	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	E	N	0.79	ng/L	U		0.79	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	E	N	0.76	ng/L	U		0.76	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	E	N	0.38	ng/L	U		0.38	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	375-95-1	Perfluorononanoic acid (PFNA)	E	N	0.49	ng/L	U		0.49	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	754-91-6	Perfluorooctane Sulfonamide (FOSA)	E	N	1.2	ng/L	U		1.2	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	E	N	1	ng/L	U		1.0	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	335-67-1	Perfluorooctanoic acid (PFOA)	E	N	0.51	ng/L	U		0.51	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	E	N	0.28	ng/L	U		0.28	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	2706-90-3	Perfluoropentanoic acid (PFPeA)	E	N	0.41	ng/L	U		0.41	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	376-06-7	Perfluorotetradecanoic acid (PFTeA)	E	N	0.79	ng/L	U		0.79	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	E	N	0.72	ng/L	U		0.72	PFC_IDA_DOD5.3	STD
2785	QC	10/21/2021	RFS01-15.2110009-004	2058-94-8	Perfluoroundecanoic acid (PFUnA)	E	N	0.68	ng/L	U		0.68	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	FB	N	4.8	ng/L	U		4.8	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	27619-97-2	6:2 fluorotelomersulfonic acid	FB	N	6.4	ng/L	U		6.4	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	39108-34-4	8:2 fluorotelomersulfonic acid	FB	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	FB	N	2.6	ng/L	U		2.6	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	FB	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	13252-13-6	Perfluoro-2-propoxypropionic acid	FB	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	375-73-5	Perfluorobutanesulfonic acid (PFBS)	FB	N	0.42	ng/L	U		0.42	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	375-22-4	Perfluorobutanoic acid (PFBA)	FB	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	335-77-3	Perfluorodecanesulfonic acid (PFDS)	FB	N	0.51	ng/L	U		0.51	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	335-76-2	Perfluorodecanoic acid (PFDA)	FB	N	0.44	ng/L	U		0.44	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	307-55-1	Perfluorododecanoic acid (PFDoA)	FB	N	0.48	ng/L	U		0.48	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	FB	N	0.34	ng/L	U		0.34	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	375-85-9	Perfluoroheptanoic acid (PFHpA)	FB	N	0.56	ng/L	U		0.56	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
2786	WL	10/21/2021	RFS01-15.2110009-005	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	FB	N	0.35	ng/L	U		0.35	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	307-24-4	Perfluorohexanoic acid (PFHxA)	FB	N	0.43	ng/L	U		0.43	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	FB	N	0.76	ng/L	U		0.76	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	FB	N	0.73	ng/L	U		0.73	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	FB	N	0.37	ng/L	U		0.37	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	375-95-1	Perfluorononanoic acid (PFNA)	FB	N	0.48	ng/L	U		0.48	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	754-91-6	Perfluorooctane Sulfonamide (FOSA)	FB	N	1.2	ng/L	U		1.2	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	FB	N	1	ng/L	U		1.0	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	335-67-1	Perfluorooctanoic acid (PFOA)	FB	N	0.49	ng/L	U		0.49	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	FB	N	0.27	ng/L	U		0.27	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	2706-90-3	Perfluoropentanoic acid (PFPeA)	FB	N	0.39	ng/L	U		0.39	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	376-06-7	Perfluorotetradecanoic acid (PFTeA)	FB	N	0.76	ng/L	U		0.76	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	FB	N	0.7	ng/L	U		0.70	PFC_IDA_DOD5.3	STD
2786	WL	10/21/2021	RFS01-15.2110009-005	2058-94-8	Perfluoroundecanoic acid (PFUnA)	FB	N	0.66	ng/L	U		0.66	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	50	ng/L	U	J	50	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	67	ng/L	U	J	67	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	29	ng/L	U	J	29	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	27	ng/L	U	J	27	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	29	ng/L	U	J	29	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	13	ng/L	U	J	13	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	17	ng/L	J	J	4.4	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	280	ng/L		J	5.7	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	5.4	ng/L	U	J	5.4	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	4.6	ng/L	U	J	4.6	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	5	ng/L	U	J	5.0	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	3.6	ng/L	U	J	3.6	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	78	ng/L		J	5.9	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	120	ng/L		J	3.6	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	88	ng/L		J	4.5	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	8	ng/L	U	J	8.0	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	7.7	ng/L	U	J	7.7	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	3.8	ng/L	U	J	3.8	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	375-95-1	Perfluorononanoic acid (PFNA)	F	N	11	ng/L	J	J	5.0	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	12	ng/L	U	J	12	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	270	ng/L		J	11	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	73	ng/L		J	5.2	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	10	ng/L	J	J	2.9	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	120	ng/L		J	4.1	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	8	ng/L	U	J	8.0	PFC_IDA_DOD5.3	STD
33502	WL	10/21/2021	RFS01-15.2110009-007	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	7.3	ng/L	U	J	7.3	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
33502	WL	10/21/2021	RFS01-15.2110009-007	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	6.9	ng/L	U	J	6.9	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	4.9	ng/L	U		4.9	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	52	ng/L			6.5	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.8	ng/L	U		2.8	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	2.6	ng/L	U		2.6	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.8	ng/L	U		2.8	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	9.7	ng/L			0.43	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	71	ng/L			0.55	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.52	ng/L	U		0.52	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.45	ng/L	U		0.45	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.49	ng/L	U		0.49	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.87	ng/L	J		0.35	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	47	ng/L			0.57	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	60	ng/L			0.36	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	89	ng/L			0.44	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.78	ng/L	U		0.78	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.75	ng/L	U		0.75	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.37	ng/L	U		0.37	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	375-95-1	Perfluorononanoic acid (PFNA)	F	N	0.69	ng/L	J		0.49	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.2	ng/L	U		1.2	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	6.7	ng/L			1.0	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	45	ng/L			0.50	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	9.2	ng/L			0.28	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	100	ng/L			0.40	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.78	ng/L	U		0.78	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.71	ng/L	U		0.71	PFC_IDA_DOD5.3	STD
33604	WL	10/21/2021	RFS01-15.2110009-015	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.67	ng/L	U		0.67	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	4.9	ng/L	U		4.9	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.7	ng/L	U		6.7	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	6	ng/L			0.44	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	52	ng/L			0.56	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.53	ng/L	U		0.53	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.46	ng/L	U		0.46	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.49	ng/L	U		0.49	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.35	ng/L	U		0.35	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
33711	WL	10/21/2021	RFS01-15.2110009-016	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	14	ng/L			0.58	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	9.9	ng/L			0.36	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	19	ng/L			0.45	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.79	ng/L	U		0.79	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.76	ng/L	U		0.76	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.38	ng/L	U		0.38	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	375-95-1	Perfluorononanoic acid (PFNA)	F	N	2.4	ng/L			0.49	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.2	ng/L	U		1.2	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	6.2	ng/L			1.0	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	12	ng/L			0.51	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	1.6	ng/L	J		0.29	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	21	ng/L			0.41	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.79	ng/L	U		0.79	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.72	ng/L	U		0.72	PFC_IDA_DOD5.3	STD
33711	WL	10/21/2021	RFS01-15.2110009-016	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.69	ng/L	U		0.69	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	D	N	5	ng/L	U		5.0	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	5	ng/L	U		5.0	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	27619-97-2	6:2 fluorotelomersulfonic acid	D	N	6.7	ng/L	U		6.7	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.7	ng/L	U		6.7	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	39108-34-4	8:2 fluorotelomersulfonic acid	D	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	D	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	D	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	13252-13-6	Perfluoro-2-propoxypropionic acid	D	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	375-73-5	Perfluorobutanesulfonic acid (PFBS)	D	N	19	ng/L			0.44	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	19	ng/L			0.44	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	375-22-4	Perfluorobutanoic acid (PFBA)	D	N	48	ng/L			0.57	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	50	ng/L			0.57	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	335-77-3	Perfluorodecanesulfonic acid (PFDS)	D	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	335-76-2	Perfluorodecanoic acid (PFDA)	D	N	0.46	ng/L	U		0.46	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.46	ng/L	U		0.46	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	307-55-1	Perfluorododecanoic acid (PFDoA)	D	N	0.5	ng/L	U		0.50	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.5	ng/L	U		0.50	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	D	N	2.5	ng/L			0.36	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	2.6	ng/L			0.36	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	375-85-9	Perfluoroheptanoic acid (PFHpA)	D	N	43	ng/L			0.59	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
33905	WL	10/21/2021	RFS01-15.2110009-017	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	43	ng/L			0.59	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	D	N	150	ng/L			0.37	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	150	ng/L			0.37	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	307-24-4	Perfluorohexanoic acid (PFHxA)	D	N	79	ng/L			0.45	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	70	ng/L			0.45	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	D	N	0.8	ng/L	U		0.80	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.8	ng/L	U		0.80	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	D	N	0.77	ng/L	U		0.77	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.77	ng/L	U		0.77	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	D	N	0.39	ng/L	U		0.39	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.39	ng/L	U		0.39	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	375-95-1	Perfluorononanoic acid (PFNA)	D	N	3.6	ng/L			0.50	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	375-95-1	Perfluorononanoic acid (PFNA)	F	N	3.6	ng/L			0.50	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	754-91-6	Perfluorooctane Sulfonamide (FOSA)	D	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	D	N	110	ng/L			1.1	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	110	ng/L			1.1	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	335-67-1	Perfluorooctanoic acid (PFOA)	D	N	35	ng/L			0.52	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	35	ng/L			0.52	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	D	N	16	ng/L			0.29	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	16	ng/L			0.29	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	2706-90-3	Perfluoropentanoic acid (PFPeA)	D	N	86	ng/L			0.41	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	84	ng/L			0.41	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	376-06-7	Perfluorotetradecanoic acid (PFTeA)	D	N	0.8	ng/L	U		0.80	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.8	ng/L	U		0.80	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	D	N	0.73	ng/L	U		0.73	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.73	ng/L	U		0.73	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-002	2058-94-8	Perfluoroundecanoic acid (PFUnA)	D	N	0.69	ng/L	U		0.69	PFC_IDA_DOD5.3	STD
33905	WL	10/21/2021	RFS01-15.2110009-017	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.69	ng/L	U		0.69	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	5	ng/L	U		5.0	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.8	ng/L	U		6.8	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.4	ng/L	U		1.4	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	4.6	ng/L			0.44	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	12	ng/L			0.57	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.46	ng/L	U		0.46	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.5	ng/L	U		0.50	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
40005	WL	10/21/2021	RFS01-15.2110009-008	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.53	ng/L	J		0.36	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	10	ng/L			0.59	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	20	ng/L			0.37	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	22	ng/L			0.45	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.8	ng/L	U		0.80	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.77	ng/L	U		0.77	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.39	ng/L	U		0.39	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	375-95-1	Perfluorononanoic acid (PFNA)	F	N	1.2	ng/L	J		0.50	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	24	ng/L			1.1	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	16	ng/L			0.52	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	3.5	ng/L			0.29	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	26	ng/L			0.42	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.8	ng/L	U		0.80	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.73	ng/L	U		0.73	PFC_IDA_DOD5.3	STD
40005	WL	10/21/2021	RFS01-15.2110009-008	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.7	ng/L	U		0.70	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	5.1	ng/L	U		5.1	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.8	ng/L	U		6.8	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	2.7	ng/L	U		2.7	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.9	ng/L	U		2.9	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.4	ng/L	U		1.4	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	3	ng/L			0.45	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	14	ng/L			0.57	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.55	ng/L	U		0.55	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.47	ng/L	U		0.47	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.51	ng/L	U		0.51	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.36	ng/L	U		0.36	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	0.75	ng/L	J		0.59	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	0.56	ng/L	J		0.37	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	2.1	ng/L			0.46	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.81	ng/L	U		0.81	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.78	ng/L	U		0.78	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.39	ng/L	U		0.39	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	375-95-1	Perfluorononanoic acid (PFNA)	F	N	0.51	ng/L	U		0.51	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	1.1	ng/L	J		1.1	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	1.4	ng/L	J		0.53	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	0.33	ng/L	J		0.29	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	1.6	ng/L	J		0.42	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
91105	WL	10/21/2021	RFS01-15.2110009-009	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.81	ng/L	U		0.81	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.74	ng/L	U		0.74	PFC_IDA_DOD5.3	STD
91105	WL	10/21/2021	RFS01-15.2110009-009	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.7	ng/L	U		0.70	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	4.8	ng/L	U		4.8	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.5	ng/L	U		6.5	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.8	ng/L	U		2.8	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	2.6	ng/L	U		2.6	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.8	ng/L	U		2.8	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.3	ng/L	U		1.3	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	0.57	ng/L	J		0.43	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	12	ng/L			0.55	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.52	ng/L	U		0.52	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.45	ng/L	U		0.45	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.48	ng/L	U		0.48	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.34	ng/L	U		0.34	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	0.57	ng/L	U		0.57	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	0.58	ng/L	J		0.35	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	0.61	ng/L	J		0.44	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.77	ng/L	U		0.77	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.74	ng/L	U		0.74	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.37	ng/L	U		0.37	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	375-95-1	Perfluorononanoic acid (PFNA)	F	N	0.48	ng/L	U		0.48	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.2	ng/L	U		1.2	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	1	ng/L	J		1.0	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	1.3	ng/L	J		0.50	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	0.28	ng/L	U		0.28	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	0.81	ng/L	J		0.40	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.77	ng/L	U		0.77	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.71	ng/L	U		0.71	PFC_IDA_DOD5.3	STD
MSETINF	TS	10/21/2021	RFS01-15.2110009-010	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.67	ng/L	U		0.67	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	5.1	ng/L	U	J	5.1	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.8	ng/L	U	J	6.8	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.9	ng/L	U	J	2.9	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	2.7	ng/L	U	J	2.7	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.9	ng/L	U	J	2.9	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.4	ng/L	U	J	1.4	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	7.2	ng/L		J	0.45	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	41	ng/L		J	0.58	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.55	ng/L	U	J	0.55	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.47	ng/L	U	J	0.47	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.51	ng/L	U	J	0.51	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.36	ng/L	U	J	0.36	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	3.3	ng/L		J	0.59	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	7.4	ng/L		J	0.37	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	9.4	ng/L		J	0.46	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.81	ng/L	U	J	0.81	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.78	ng/L	U	J	0.78	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.39	ng/L	U	J	0.39	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	375-95-1	Perfluorononanoic acid (PFNA)	F	N	0.51	ng/L	U	J	0.51	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.3	ng/L	U	J	1.3	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	2.1	ng/L	J	J	1.1	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	5.9	ng/L		J	0.53	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	3.5	ng/L		J	0.29	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	15	ng/L		J	0.42	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.81	ng/L	U	J	0.81	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.74	ng/L	U	J	0.74	PFC_IDA_DOD5.3	STD
OLFSEEP8	SL	10/21/2021	RFS01-15.2110009-011	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.7	ng/L	U	J	0.70	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	D	N	4.8	ng/L	U	J	4.8	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	5	ng/L	U	J	5.0	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	27619-97-2	6:2 fluorotelomersulfonic acid	D	N	6.5	ng/L	U	J	6.5	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.8	ng/L	U	J	6.8	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	39108-34-4	8:2 fluorotelomersulfonic acid	D	N	2.8	ng/L	U	J	2.8	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.9	ng/L	U	J	2.9	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	D	N	25	ng/L		J	2.6	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	28	ng/L		J	2.7	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	D	N	2.8	ng/L	U	J	2.8	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.9	ng/L	U	J	2.9	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	13252-13-6	Perfluoro-2-propoxypropionic acid	D	N	1.3	ng/L	U	J	1.3	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.4	ng/L	U	J	1.4	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	375-73-5	Perfluorobutanesulfonic acid (PFBS)	D	N	0.43	ng/L	U	J	0.43	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	1.9	ng/L		J	0.44	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	375-22-4	Perfluorobutanoic acid (PFBA)	D	N	71	ng/L		J	0.55	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	66	ng/L		J	0.57	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	335-77-3	Perfluorodecanesulfonic acid (PFDS)	D	N	1.4	ng/L	J	J	0.52	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	1.3	ng/L	J	J	0.54	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	335-76-2	Perfluorodecanoic acid (PFDA)	D	N	0.45	ng/L	U	J	0.45	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.46	ng/L	U	J	0.46	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	307-55-1	Perfluorododecanoic acid (PFDoA)	D	N	0.48	ng/L	U	J	0.48	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.5	ng/L	U	J	0.50	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	D	N	0.34	ng/L	U	J	0.34	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.36	ng/L	U	J	0.36	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	375-85-9	Perfluoroheptanoic acid (PFHpA)	D	N	13	ng/L		J	0.57	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	13	ng/L		J	0.59	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	D	N	9.3	ng/L		J	0.35	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	8.7	ng/L		J	0.37	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	307-24-4	Perfluorohexanoic acid (PFHxA)	D	N	31	ng/L		J	0.44	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	31	ng/L		J	0.45	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	D	N	0.77	ng/L	U	J	0.77	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.8	ng/L	U	J	0.80	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	D	N	0.74	ng/L	U	J	0.74	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.77	ng/L	U	J	0.77	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	D	N	0.37	ng/L	U	J	0.37	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.39	ng/L	U	J	0.39	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	375-95-1	Perfluorononanoic acid (PFNA)	D	N	0.48	ng/L	U	J	0.48	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	375-95-1	Perfluorononanoic acid (PFNA)	F	N	0.58	ng/L	J	J	0.50	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	754-91-6	Perfluorooctane Sulfonamide (FOSA)	D	N	1.2	ng/L	U	J	1.2	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.3	ng/L	U	J	1.3	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	D	N	19	ng/L		J	1.0	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	17	ng/L		J	1.1	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	335-67-1	Perfluorooctanoic acid (PFOA)	D	N	52	ng/L		J	0.50	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	50	ng/L		J	0.52	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	D	N	0.28	ng/L	U	J	0.28	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	0.29	ng/L	U	J	0.29	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	2706-90-3	Perfluoropentanoic acid (PFPeA)	D	N	15	ng/L		J	0.40	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	12	ng/L		J	0.42	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	376-06-7	Perfluorotetradecanoic acid (PFTeA)	D	N	0.77	ng/L	U	J	0.77	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.8	ng/L	U	J	0.80	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	D	N	0.7	ng/L	U	J	0.70	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.73	ng/L	U	J	0.73	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-003	2058-94-8	Perfluoroundecanoic acid (PFUnA)	D	N	0.67	ng/L	U	J	0.67	PFC_IDA_DOD5.3	STD
PLFSEEPINF	TS	10/21/2021	RFS01-15.2110009-012	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.7	ng/L	U	J	0.70	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	5.1	ng/L	U	J	5.1	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	6.8	ng/L	U	J	6.8	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	2.9	ng/L	U	J	2.9	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	22	ng/L		J	2.7	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	2.9	ng/L	U	J	2.9	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	1.4	ng/L	U	J	1.4	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	0.79	ng/L	J	J	0.45	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	57	ng/L		J	0.58	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.76	ng/L	J	J	0.55	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.47	ng/L	U	J	0.47	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.51	ng/L	U	J	0.51	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.36	ng/L	U	J	0.36	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	9.7	ng/L		J	0.60	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	8.2	ng/L		J	0.37	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	24	ng/L		J	0.46	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.81	ng/L	U	J	0.81	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.78	ng/L	U	J	0.78	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.39	ng/L	U	J	0.39	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	375-95-1	Perfluorononanoic acid (PFNA)	F	N	0.61	ng/L	J	J	0.51	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	1.3	ng/L	U	J	1.3	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	15	ng/L			1.1	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	45	ng/L		J	0.53	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	0.44	ng/L	J	J	0.29	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	12	ng/L		J	0.42	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.81	ng/L	U	J	0.81	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.74	ng/L	U	J	0.74	PFC_IDA_DOD5.3	STD
PLFSYSEFF	TS	10/21/2021	RFS01-15.2110009-018	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.7	ng/L	U	J	0.70	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	D	N	0.35	ng/L	U		0.35	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	N	0.35	ng/L	U		0.35	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	27619-97-2	6:2 fluorotelomersulfonic acid	D	N	0.37	ng/L	U		0.37	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	27619-97-2	6:2 fluorotelomersulfonic acid	F	N	0.36	ng/L	U		0.36	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	39108-34-4	8:2 fluorotelomersulfonic acid	D	N	0.61	ng/L	U		0.61	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	39108-34-4	8:2 fluorotelomersulfonic acid	F	N	0.6	ng/L	U		0.60	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	D	N	0.33	ng/L	U		0.33	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	N	0.33	ng/L	U		0.33	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	D	N	0.45	ng/L	U		0.45	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	N	0.44	ng/L	U		0.44	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	13252-13-6	Perfluoro-2-propoxypropionic acid	D	N	0.67	ng/L	U		0.67	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	13252-13-6	Perfluoro-2-propoxypropionic acid	F	N	0.66	ng/L	U		0.66	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	375-73-5	Perfluorobutanesulfonic acid (PFBS)	D	N	0.38	ng/L	J		0.33	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	N	0.39	ng/L	J		0.33	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	375-22-4	Perfluorobutanoic acid (PFBA)	D	N	1.2	ng/L	J		0.23	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	375-22-4	Perfluorobutanoic acid (PFBA)	F	N	1.3	ng/L	J		0.23	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	335-77-3	Perfluorodecanesulfonic acid (PFDS)	D	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	N	0.53	ng/L	U		0.53	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	335-76-2	Perfluorodecanoic acid (PFDA)	D	N	0.32	ng/L	U		0.32	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	335-76-2	Perfluorodecanoic acid (PFDA)	F	N	0.32	ng/L	U		0.32	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	307-55-1	Perfluorododecanoic acid (PFDoA)	D	N	0.41	ng/L	U		0.41	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	307-55-1	Perfluorododecanoic acid (PFDoA)	F	N	0.4	ng/L	U		0.40	PFC_IDA_DOD5.3	STD

Table 3. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	Cas	Analyte	Sample Type	Filtration Status	Result	Units	Lab Qualifiers	Data Validation Qualifiers	Detection Limit	Analytical Method	Lab Code
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	D	N	0.69	ng/L	U		0.69	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	N	0.68	ng/L	U		0.68	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	375-85-9	Perfluoroheptanoic acid (PFHpA)	D	N	0.47	ng/L	U		0.47	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	N	0.46	ng/L	U		0.46	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	D	N	0.42	ng/L	J		0.37	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	N	0.36	ng/L	U		0.36	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	307-24-4	Perfluorohexanoic acid (PFHxA)	D	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	307-24-4	Perfluorohexanoic acid (PFHxA)	F	N	0.63	ng/L	J		0.53	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	D	N	0.51	ng/L	U		0.51	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	67905-19-5	Perfluoro-n-hexadecanoic acid (PFHxDA)	F	N	0.5	ng/L	U		0.50	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	D	N	0.59	ng/L	U		0.59	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	16517-11-6	Perfluoro-n-octadecanoic acid (PFODA)	F	N	0.58	ng/L	U		0.58	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	D	N	0.65	ng/L	U		0.65	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	N	0.63	ng/L	U		0.63	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	375-95-1	Perfluorononanoic acid (PFNA)	D	N	0.55	ng/L	U		0.55	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	375-95-1	Perfluorononanoic acid (PFNA)	F	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	754-91-6	Perfluorooctane Sulfonamide (FOSA)	D	N	0.51	ng/L	U		0.51	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	N	0.5	ng/L	U		0.50	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	D	N	0.57	ng/L	U		0.57	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	N	0.56	ng/L	U		0.56	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	335-67-1	Perfluorooctanoic acid (PFOA)	D	N	0.62	ng/L	J		0.55	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	335-67-1	Perfluorooctanoic acid (PFOA)	F	N	0.54	ng/L	U		0.54	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	D	N	0.5	ng/L	U		0.50	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	N	0.49	ng/L	U		0.49	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	2706-90-3	Perfluoropentanoic acid (PFPeA)	D	N	0.4	ng/L	J		0.23	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	N	0.43	ng/L	J		0.23	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	376-06-7	Perfluorotetradecanoic acid (PFTeA)	D	N	0.5	ng/L	U		0.50	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	N	0.51	ng/L	J	U	0.49	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	D	N	0.67	ng/L	U		0.67	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	N	0.66	ng/L	U		0.66	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-001	2058-94-8	Perfluoroundecanoic acid (PFUnA)	D	N	0.71	ng/L	U		0.71	PFC_IDA_DOD5.3	STD
WOMPOC	SL	11/29/2021	RFS01-15.2108007-014	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	N	0.7	ng/L	U		0.70	PFC_IDA_DOD5.3	STD

Abbreviations:

Cas = Chemical Abstracts Service registry number, D = duplicate, E = equipment rinse, F = field sample, FB = field blank, J = estimated, N = sample was not filtered, QC = quality control sample (dummy location code), SL = surface location, STD = TestAmerica, TS = treatment system, U = analytical result below detection limit, WL = well

Table 4. Field Parameter Results for Water Samples

Location Code	Date Sampled	Parameter	Result	Units
WOMPOC	11/29/2021	Turbidity	2.75	NTU
WOMPOC	11/29/2021	Alkalinity, Total (As CaCO ₃)	109	mg/L
WOMPOC	11/29/2021	Specific Conductance	900	umhos/cm
WOMPOC	11/29/2021	pH	6.09	s.u.
WOMPOC	11/29/2021	Temperature	8.08	C
PLFSYSEFF	10/21/2021	Turbidity	20.3	NTU
PLFSYSEFF	10/21/2021	Alkalinity, Total (As CaCO ₃)	643	mg/L
PLFSYSEFF	10/21/2021	Specific Conductance	1305	umhos/cm
PLFSYSEFF	10/21/2021	pH	6.93	s.u.
PLFSYSEFF	10/21/2021	Temperature	13.24	C
MSETINF	10/21/2021	Turbidity	5.08	NTU
MSETINF	10/21/2021	Alkalinity, Total (As CaCO ₃)	264	mg/L
MSETINF	10/21/2021	Specific Conductance	1744	umhos/cm
MSETINF	10/21/2021	pH	7.48	s.u.
MSETINF	10/21/2021	Temperature	14.35	C
OLFSEEP8	10/21/2021	Turbidity	17.4	NTU
OLFSEEP8	10/21/2021	Alkalinity, Total (As CaCO ₃)	433	mg/L
OLFSEEP8	10/21/2021	Specific Conductance	1685	umhos/cm
OLFSEEP8	10/21/2021	pH	5.74	s.u.
OLFSEEP8	10/21/2021	Temperature	7.26	C
PLFSEEPINF	10/21/2021	Turbidity	2.33	NTU
PLFSEEPINF	10/21/2021	Alkalinity, Total (As CaCO ₃)	784	mg/L
PLFSEEPINF	10/21/2021	Specific Conductance	1417	umhos/cm
PLFSEEPINF	10/21/2021	Temperature	13.8	C
33502	10/21/2021	Turbidity	3.45	NTU
33502	10/21/2021	Alkalinity, Total (As CaCO ₃)	985	mg/L
33502	10/21/2021	Specific Conductance	2768	umhos/cm
33502	10/21/2021	pH	7.18	s.u.
33502	10/21/2021	Temperature	15.02	C
33604	10/21/2021	Turbidity	6.02	NTU
33604	10/21/2021	Alkalinity, Total (As CaCO ₃)	485	mg/L
33604	10/21/2021	Specific Conductance	2226.33	umhos/cm
33604	10/21/2021	pH	6.43	s.u.
33604	10/21/2021	Temperature	14.94	C
33711	10/21/2021	Turbidity	4.39	NTU
33711	10/21/2021	Alkalinity, Total (As CaCO ₃)	530	mg/L
33711	10/21/2021	Specific Conductance	1953	umhos/cm
33711	10/21/2021	pH	6.72	s.u.
33711	10/21/2021	Temperature	14.45	C
33905	10/21/2021	Turbidity	21.83	NTU
33905	10/21/2021	Alkalinity, Total (As CaCO ₃)	274	mg/L

Table 4. Field Parameter Results for Water Samples (continued)

Location Code	Date Sampled	Parameter	Result	Units
33905	10/21/2021	Specific Conductance	1167.86	umhos/cm
33905	10/21/2021	pH	6.74	s.u.
33905	10/21/2021	Temperature	14.39	C
40005	10/21/2021	Turbidity	66.55	NTU
40005	10/21/2021	Alkalinity, Total (As CaCO ₃)	190	mg/L
40005	10/21/2021	Specific Conductance	1695.5	umhos/cm
40005	10/21/2021	pH	6.3125	s.u.
40005	10/21/2021	Temperature	12.795	C
91105	10/21/2021	Turbidity	4.6225	NTU
91105	10/21/2021	Alkalinity, Total (As CaCO ₃)	278	mg/L
91105	10/21/2021	Specific Conductance	1527	umhos/cm
91105	10/21/2021	pH	6.9075	s.u.
91105	10/21/2021	Temperature	15.665	C

Abbreviations:

C = degrees Celsius

CaCO₃ = calcium carbonate

mg/L = milligrams per liter

NTU = nephelometric turbidity unit

s.u. = standard pH unit

umhos/cm = micromhos per centimeter