LMS/RFS/53331

Annual PFAS Monitoring Report Rocky Flats Site, Colorado Calendar Year 2025

April 2026

U.S. DEPARTMENT OF ENERGY | Legacy Management

This document has been designed for online viewing.

Contents

Figure

Tables

Abbreviations

CDPHE	Colorado Department of Public Health and Environment
CY	calendar year
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
ID	interim directive
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

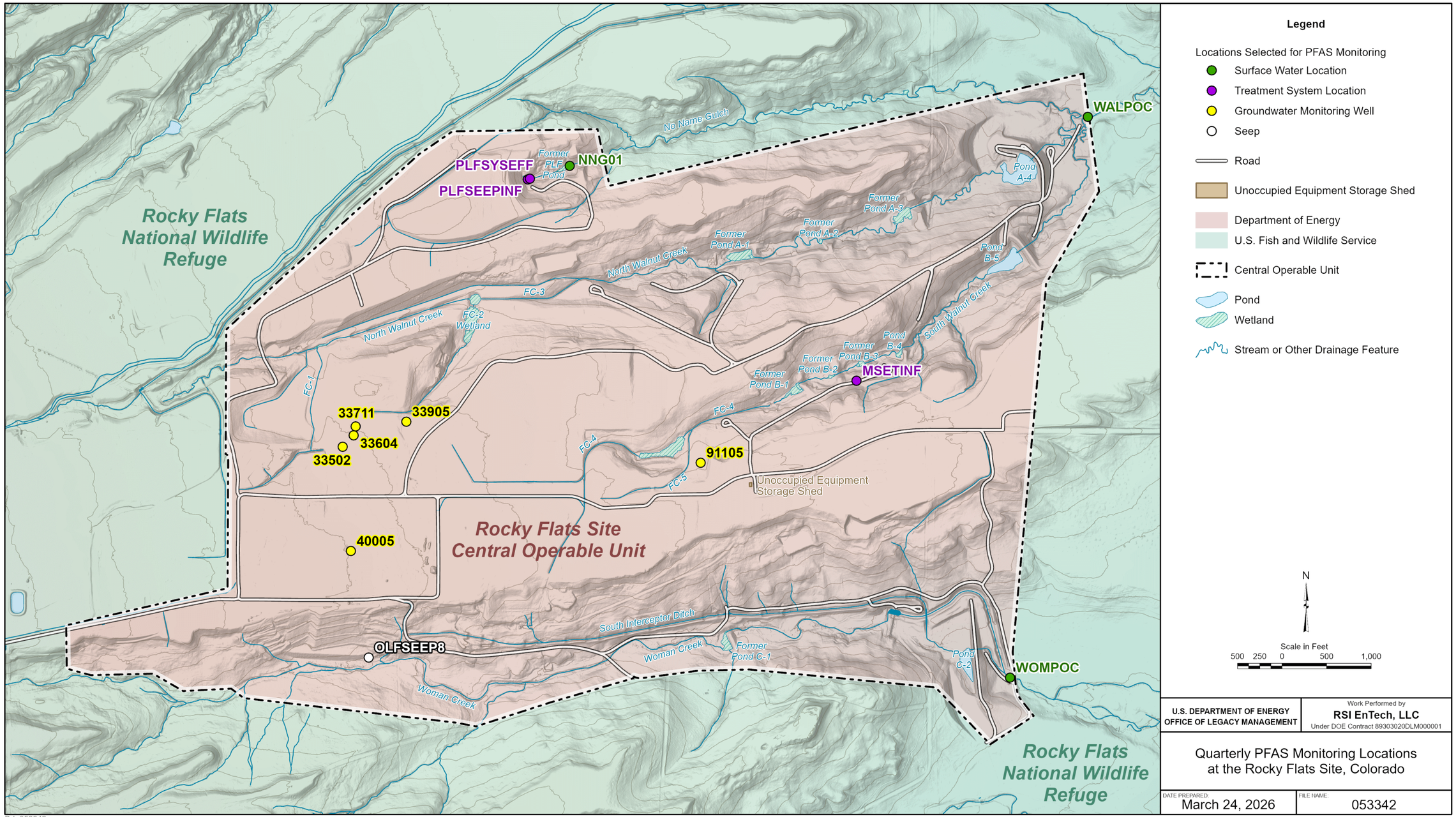
1.0 Introduction

Per- and polyfluoroalkyl substances (PFAS) are a group of thousands of human-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-resistant 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 (AFFF) used in firefighting. Some PFAS have been identified as potentially harmful to human health or the environment; both the regulatory framework and the science surrounding these emerging contaminants are currently developing at a rapid pace.

The Colorado Department of Public Health and Environment (CDPHE), the U.S. Environmental Protection Agency (EPA), and 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 (Site). Eight locations were sampled to screen groundwater and surface water for the presence of the two PFAS that have received the greatest scrutiny, perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). At the time, there was no published method for analyzing PFAS in environmental matrixes that would meet the very low detection limits needed to support this program; instead, a widely used modification to the drinking-water Method 537.1 was selected. Both PFOA and PFOS were detected in the samples collected in 2019 (DOE 2020). Two of the locations produced samples with concentrations exceeding EPA's nonenforceable drinking water health advisory limit, at that time 70 nanograms per liter (ng/L) (or parts per trillion) for the sum of the concentrations of PFOA + PFOS. These two locations include 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 personal protective equipment, clothing, sampling preparations, sampling staff preparations, and other special requirements that are specific to collecting samples for the analysis of PFAS. The 2021 SAP increased 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 analyte list was 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 effort would 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) is combined with an annual report. The quarterly reports are brief data summaries, and the annual reports include additional information.

Sampling as described in the 2021 SAP began in the third quarter of CY 2021, and the eighth quarterly sampling event took place in the second quarter of CY 2023. Although it was planned to be performed for 8 quarters, sampling continued in accordance with the 2021 SAP through the third quarter of CY 2023, resulting in a ninth consecutive quarter of sampling.



Abbreviation: PLF = Present Landfill

Figure 1. Central Operable Unit with PFAS Sampling Locations

The 2021 SAP was revised again in the fourth quarter of CY 2023 to include Interim Directive (ID) ID-23-08 (DOE 2023), which reduced the number of sample locations to six and included the collection of split samples to allow a statistical comparison of results obtained through two different analytical methods, modified EPA Method 537.1 and EPA Method 1633 (see the PFAS SAP ID [DOE 2023]). Prior to the 2023 SAP revision taking effect, split samples were collected from the six selected locations in the second quarter of CY 2023 at DOE's initiative. In the second quarter and the following (third) quarter of CY 2023, the other six locations were still sampled, but those samples were analyzed using only the original analytical method (modified EPA Method 537.1). The number of PFAS sampling locations was then reduced via the ID, and only the selected six locations identified in the ID (DOE 2023) were sampled using the split sampling approach.

The split samples comparison would require a minimum of 4 quarters of data. As noted above, the former analytical method was used starting in 2019 and is a modification of a drinking water method that was not formally approved for use with environmental matrixes such as groundwater and surface water. The latter method (Method 1633) was announced as final for aqueous matrixes in 2023 and finalized and approved for use with environmental matrixes in 2024. See Section 5.0 of the *Annual PFAS Monitoring Report Rocky Flats Site, Colorado, Calendar Year 2024* (DOE 2025) for the results of the statistical comparison of the two analytical methods.

Quarterly monitoring for PFAS at the Site underwent further adjustment in late 2024 following discussions with CDPHE and EPA. A comprehensive review and revision of the 2021 SAP was conducted, and the resulting new SAP was issued in October 2024 (DOE 2024). This SAP focuses on continued quarterly sampling using the EPA 1633 analytical method at three Site locations: the two surface water Points of Compliance (WALPOC and WOMPOC) and the surface water location downstream of the PLFTS (NNG01).

Table 1 summarizes the locations that have been periodically sampled for PFAS through the end of CY 2025 and which SAP(s) drove this sampling.

Table 1. Summary of Planned Quarterly PFAS Sampling at the Rocky Flats Site Through CY 2025

Location	General Description	SAP
33502	Monitoring well near former fire training area and Oil Burn Pit #1	1, 2, 3
33604	Monitoring well near former fire training area and Oil Burn Pit #1	2
33711	Monitoring well farther downgradient of former fire training area	2
33905	Monitoring well farther downgradient of former fire training area	2, 3
40005	Monitoring well near former Building 444	1, 2
91105	Monitoring well near former Oil Burn Pit No. 2	1, 2
OLFSEEP8	Seep at base of OLF hillside	1, 2, 3
MSETINF	Influent to East Trenches Plume Treatment System	1, 2
PLFSEEPINF	Seep portion of influent to PLFTS	1, 2
PLFSYSEFF	Effluent from PLFTS	2, 3
WOMPOC	Woman Creek Point of Compliance	1, 2, 3, 4
WALPOC	Walnut Creek Point of Compliance	1, 2, 3, 4
NNG01	Surface water in No Name Gulch before it leaves the Central Operable Unit	4

Notes:
1 = initial PFAS SAP (DOE 2019)
2 = expanded PFAS SAP (DOE 2021)
3 = PFAS SAP ID (DOE 2023)
4 = reduced PFAS SAP (DOE 2024)

Abbreviation:
OLF = Original Landfill

2.0 Monitoring Highlights: Fourth Quarter CY 2025

The WALPOC monitoring location was dry during the fourth quarter of CY 2025. The remaining two locations were successfully sampled. Sampling events are summarized in Table 2.

Table 2. PFAS Samples Collected in Fourth Quarter 2025

Location ID		Sample ID	Sample Date and Time	Sample Type	Analytical Method[b]
Actual	Dummy[a]				
NNG01	2784	RFS01-18.2510017-003	10/23/2025 10:58	FB	1633
NNG01		RFS01-18.2510017-005	10/23/2025 10:45	F	1633
WOMPOC		RFS01-18.2511018-012	11/13/2025 09:39	F	1633

Notes:
[a] "Dummy" location codes are assigned to quality assurance/quality control samples (sample type FB) that are physically collected at the actual locations indicated. Refer to the PFAS SAP (DOE 2024) for additional information on sample types.
[b] Analytical method is EPA Method 1633.

Abbreviations:
F = field
FB = field blank

3.0 Analytical Data: Fourth Quarter CY 2025

Analytical data for the fourth quarter of CY 2025 are provided in Table 6, and field parameter data are provided in Table 7. These two tables are attached at the end of this report.

4.0 Summary of PFAS Monitoring at Rocky Flats in CY 2025

Surface water location WALPOC was successfully sampled in the first and second quarters but was dry for the other 2 quarters of CY 2025. Surface water location WOMPOC was dry in the third quarter but was successfully sampled in the other 3 quarters of CY 2025. NNG01 produced sufficient water for sampling in all 4 quarters. Other than the dry surface water locations, there were no difficulties in collecting samples. Table 3 summarizes the samples that were collected for PFAS analysis in CY 2025.

Table 3. Summary of PFAS Samples Collected in 2025

Location ID		Sample ID	Sample Date and Time	Sample Type	Analytical Method[b]
Actual	Dummy[a]				
NNG01		RFS01-18.2501012-001	3/03/2025 11:11	F	1633
WOMPOC	2397	RFS01-18.2501012-002	3/03/2025 11:59	D	1633
WOMPOC	2398	RFS01-18.2501012-003	3/03/2025 11:54	FB	1633
WOMPOC		RFS01-18.2501012-012	3/03/2025 11:59	F	1633
WALPOC		RFS01-19.2503002-040	3/31/2025 11:35	F	1633
NNG01		RFS01-18.2504013-010	5/20/2025 08:25	F	1633
WALPOC		RFS01-18.2505014-011	5/27/2025 11:50	F	1633
WOMPOC		RFS01-18.2504013-012	5/20/2025 09:20	F	1633
WOMPOC	2770	RFS01-18.2504013-001	5/20/2025 09:20	D	1633
WOMPOC	2785	RFS01-18.2504013-004	5/20/2025 09:15	FB	1633
NNG01		RFS01-18.2507015-013	9/29/2025 13:00	F	1633
NNG01	2783	RFS01-18.2507015-002	9/29/2025 12:50	FB	1633
NNG01	2784	RFS01-18.2510017-003	10/23/2025 10:58	FB	1633
NNG01		RFS01-18.2510017-005	10/23/2025 10:45	F	1633
WOMPOC		RFS01-18.2511018-012	11/13/2025 09:39	F	1633

Notes:

[a] "Dummy" location codes are assigned to quality assurance/quality control samples (sample types D, FB) that are physically collected at the actual locations indicated. Refer to the PFAS SAP (DOE 2024) for additional information on sample types.

[b] Analytical method is EPA Method 1633.

Abbreviations:

D = duplicate
F = field
FB = field blank

Analytical results for PFOA and PFOS in CY 2025 were similar to those obtained since 2019, the first year of PFAS monitoring. Because of the early recognition of health concerns associated with PFOA and PFOS, those were the only PFAS analyzed in 2019, while samples collected since 2021 have been analyzed for additional compounds including those identified in the Colorado WQCC Policy (WQCC 2020). Table 4 summarizes concentrations of PFOA and PFOS in samples collected in 2019, 2021, 2022, 2023, 2024, and 2025, as determined using modified EPA Method 537.1 and EPA Method 1633. The concentrations reported for each given location are fairly similar over time.

Table 4. Summary of PFOA and PFOS Analytical Results (ng/L) Since 2019

Monitoring Wells													
Location	**Analytical Method**	**33502**		**33604**		**33711**		**33905**		**40005**		**91105**	
Quarter/Year		**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**
2/19	Modified 537.1	**120**	**310**	NS	NS	NS	NS	NS	NS	**21**	**24 (J)**	**0.9 (J)**	0.99 (U)
4/19	Modified 537.1	**70 (J)**	**240**	NS	NS	NS	NS	NS	NS	**19**	**24**	**0.55 (J)**	1.1 (U)
3/21	Modified 537.1	**66 (J)**	**250 (J)**	**38**	**8.1**	**13**	**7 (J)**	**32**	**140**	**16**	**22**	**1.3 (J)**	1 (U)
4/21	Modified 537.1	**73 (J)**	**270 (J)**	**45**	**6.7**	**12**	**6.2**	**35**	**110**	**16**	**24**	**1.4 (J)**	**1.1 (J)**
1/22	Modified 537.1	**72**	**250**	**47**	**5.5**	**11**	**6.4**	**27**	**150 (J)**	**18**	**22**	**1.4 (J)**	**1.3 (J)**
2/22	Modified 537.1	**100**	**310**	**57**	**13 (J)**	**6.7**	**3.6**	**26**	**140**	**18**	**26**	**1.1 (J)**	**2.9 (J)**
3/22	Modified 537.1	**93**	**260**	**58**	**13 (J)**	**7.6**	**4.5**	**28**	**140**	**17**	**25**	**0.96 (J)**	**1.2 (J)**
4/22	Modified 537.1	**97 (HJ)**	**280 (HJ)**	**89 (HJ)**	**22 (HJ)**	**11 (HJ)**	**5 (HJ)**	**31 (HJ)**	**150 (HJ)**	**19 (HJ)**	**31 (HJ)**	**0.68 (HJ)**	0.53 (UHJ)
1/23	Modified 537.1	**88**	**260**	**49**	**15 (J)**	**22**	**10 (J)**	**27**	**140**	**18**	**27**	**0.76 (J)**	**0.77 (J)**
2/23	Modified 537.1	**96**	**290**	**58**	**15 (J)**	**12**	**8.6 (J)**	**13**	**54 (J)**	**18**	**29**	**0.73 (J)**	0.55 (U)
	1633	**160 (J)**	**350**	NS	NS	NS	NS	**16**	**46 (J)**	NS	NS	NS	NS
3/23	Modified 537.1	**90**	**260**	**59**	**20 (J)**	**14**	**6.1**	**44**	**140**	**20**	**24**	**1.8 (J)**	**2.1 (J)**
	1633	**130**	**350 (J)**	NS	NS	NS	NS	**56**	**150**	**22**	**22 (J)**	NS	NS
4/23	Modified 537.1	**82 (J)**	**240**	NS	NS	NS	NS	**35**	**110**	NS	NS	NS	NS
	1633	**190**	**530 (J)**	NS	NS	NS	NS	**40**	**120**	NS	NS	NS	NS
1/24	Modified 537.1	**95**	**240**	NS	NS	NS	NS	**25**	**150**	NS	NS	NS	NS
	1633	**130**	**270**	NS	NS	NS	NS	**29**	**160 (NJ)**	NS	NS	NS	NS
2/24	1633	**110**	**250**	**65**	**21 (J)**	**9.8**	**3.9**	**27**	**120**	**18**	**19**	**2**	**0.75 (J)**
3/24	Modified 537.1	**98 (J)**	**260 (J)**	NS	NS	NS	NS	**33 (J)**	**120 (J)**	NS	NS	NS	NS
	1633	**130**	**260**	NS	NS	NS	NS	**38**	**110**	NS	NS	NS	NS
4/24	1633	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 4. Summary of PFOA and PFOS Analytical Results (ng/L) Since 2019 (continued)

Monitoring Wells (continued)															
Location	**Analytical Method**	**33502**		**33604**		**33711**		**33905**		**40005**		**91105**			
Quarter/Year		**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**		
1/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
2/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
3/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
4/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
Treatment System and Surface Water Locations															
Location	**Analytical Method**	**MSETINF**		**PLFSEEPINF**		**PLFSYSEFF**		**OLFSEEP8**		**WOMPOC**		**WALPOC**		**NNG01**	
Quarter/Year		**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**
2/19	Modified 537.1	**2 (J)**	1 (U)	**69 (H)**	**23 (H)**	NS	NS	**7.4**	**3.4 (J)**	**1.6 (J)**	**1.2 (J)**	**13**	**18**	NS	NS
4/19	Modified 537.1	**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)**	NS	NS
3/21	Modified 537.1	**1.3 (J)**	1 (U)	**55 (J)**	**21 (J)**	**40 (J)**	**17 (J)**	**12**	**4.3**	*	*	*	*	NS	NS
4/21	Modified 537.1	**1.3 (J)**	**1 (J)**	**50 (J)**	**17 (J)**	**45 (J)**	**15**	**5.9 (J)**	**2.1 (J)**	0.54 (U)	0.56 (U)	*	*	NS	NS
1/22	Modified 537.1	**1.4 (J)**	**0.91 (J)**	**47**	**14**	**44**	**13 (J)**	**6.6**	**2.1 (J)**	*	*	*	*	NS	NS
2/22	Modified 537.1	**1.3 (J)**	**0.89 (J)**	**53**	**18**	**41**	**14**	**7**	**2.4 (J)**	**0.55 (J)**	**0.75 (J)**	**7.6**	**14 (J)**	NS	NS
3/22	Modified 537.1	**1.1 (J)**	0.52 (U)	**54**	**18**	**43**	**17**	**8**	**2.1**	**1.5 (JX)**	**1.9 (J)**	*	*	NS	NS
4/22	Modified 537.1	**1.3 (HJ)**	0.55 (UHJ)	**68 (HJ)**	**21 (HJ)**	**58 (HJ)**	**18 (HJ)**	**2.2 (HJ)**	0.56 (UHJ)	**1.4 (HJ)**	0.56 (UHJ)	*	*	NS	NS
1/23	Modified 537.1	**1.1 (J)**	0.56 (U)	**60**	**19**	**44**	**15**	**7.4**	**2 (J)**	0.49 (U)	0.5 (U)	*	*	NS	NS
2/23	Modified 537.1	**1.1 (J)**	0.54 (U)	**90 (J)**	**27**	**47**	**16**	**5.3**	0.55 (U)	**2.2**	0.53 (U)	**6.1****	**9.8****	NS	NS
	1633	NS	NS	NS	NS	**59**	**20 (J)**	**5.3**	**2.3 (J)**	**2.5 (J)**	**1.7 (J)**	**7.4**	**8.8**	NS	NS
3/23	Modified 537.1	**1.3 (J)**	**0.66 (J)**	**74**	**27**	**55**	**19**	**10**	**3.8 (J)**	*	*	*	*	NS	NS
	1633	NS	NS	NS	NS	**46**	**14**	**9.8**	**3.4 (J)**	*	*	*	*	NS	NS
4/23	Modified 537.1	NS	NS	NS	NS	**46 (J)**	**16**	**5.6 (J)**	**1.7 (J)**	0.56 (U)	**2.3**	*	*	NS	NS
	1633	NS	NS	NS	NS	**81 (J)**	**20**	**7.2**	**1.8 (J)**	**0.57 (J)**	**0.44 (J)**	*	*	NS	NS
1/24	Modified 537.1	NS	NS	NS	NS	**48**	**18**	**10**	**2.4 (J)**	**0.57 (J)**	0.51 (U)	**6.9**	**10 (J)**	NS	NS
	1633	NS	NS	NS	NS	**69**	**19 (NJ)**	**10**	1.6 (U)	0.56 (U)	0.28 (U)	**6.1**	**9.7 (J)**	NS	NS
2/24	1633	**1.3 (J)**	0.2 (U)	**30 (J)**	**10 (J)**	**56**	**21**	**18 (J)**	**3 (J)**	**1.5 (J)**	0.28 (U)	**15 (J)**	**22 (J)**	**43 (J)**	**15 (J)**

Table 4. Summary of PFOA and PFOS Analytical Results (ng/L) Since 2019 (continued)

Treatment System and Surface Water Locations (continued)															
Location	**Method**	**MSETINF**		**PLFSEEPINF**		**PLFSYSEFF**		**OLFSEEP8**		**WOMPOC**		**WALPOC**		**NNG01**	
Quarter/Year		**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**	**PFOA**	**PFOS**
3/24	Modified 537.1	NS	NS	NS	NS	**45 (J)**	**22 (J)**	**10 (J)**	**2.8 (J)**	*	*	*	*	NS	NS
	1633	NS	NS	NS	NS	**54**	**18**	**10**	**2.5 (J)**	*	*	*	*	**93**	**23**
4/24	1633	NS	NS	NS	NS	NS	NS	NS	NS	0.50 (U)	0.16 (U)	*	*	**55**	**12**
1/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	**0.62 (J)**	0.42 (U)	**5.9**	**2.3 (J)**	**46**	**11**
2/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	1.5 (U)	**0.69 (J)**	**15**	**16 (J)**	**28**	**11**
3/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	*	*	*	*	**83**	**18**
4/25	1633	NS	NS	NS	NS	NS	NS	NS	NS	0.35 (UJ)	0.35 (U)	*	*	**73**	**17**

Notes:
Results represent only “primary” samples, not field duplicates, and data generated using modified Method 537.1 and Method 1633.
EPA has promulgated maximum contaminant levels of 4 ng/L for each of these compounds.
Bold results signify detections or estimated results.
Qualifiers: H = hold time concerns
J = estimated result
N = recovery exceeds control limits
U = not detected at the listed detection limit
X indicates presumptive evidence of a compound
* = location was dry
** = WALPOC was sampled twice in this quarter, but only results from the sample that was collected when the other locations were sampled are shown

Abbreviation:
NS = not sampled: location was not scheduled for sampling (may be method-specific)

Table 5 summarizes the evolution of periodic PFAS sampling at the Rocky Flats Site since sampling started in 2019. Table 5 also shows when the sampling program began utilizing the EPA approved 1633 analytical method. Based on the October 2024 revised SAP, future quarterly and annual PFAS reports will continue to focus on three sampling locations (WALPOC, WOMPOC, and NNG01) that will be analyzed using only EPA Method 1633.

Table 5. Summary of Sampled Locations and Analytical Methods

Monitoring Wells							
Quarter/Year	**Method**	**33502**	**33604**	**33711**	**33905**	**40005**	**91105**
2/19	Modified 537.1	Yes	NS	NS	NS	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
4/19	Modified 537.1	Yes	NS	NS	NS	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
3/21	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
4/21	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
1/22	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
2/22	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
3/22	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
4/22	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
1/23	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	NS	NS	NS	NS	NS	NS
2/23	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	Yes	NS	NS	Yes	NS	NS
3/23	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes
	1633	Yes	NS	NS	Yes	Yes	NS
4/23	Modified 537.1	Yes	NS	NS	Yes	NS	NS
	1633	Yes	NS	NS	Yes	NS	NS
1/24	Modified 537.1	Yes	NS	NS	Yes	NS	NS
	1633	Yes	NS	NS	Yes	NS	NS
2/24	Modified 537.1	No	NS	NS	No	NS	NS
	1633	Yes	Yes	Yes	Yes	Yes	Yes
3/24	Modified 537.1	Yes	NS	NS	Yes	NS	NS
	1633	Yes	NS	NS	Yes	NS	NS
4/24	Modified 537.1	NS	NS	NS	NS	NS	NS
	1633	NS	NS	NS	NS	NS	NS

Table 5. Summary of Sampled Locations and Analytical Methods (continued)

Monitoring Wells (continued)								
Quarter/Year	**Method**	**33502**	**33604**	**33711**	**33905**	**40005**	**91105**	
1/25	Modified 537.1	NS	NS	NS	NS	NS	NS	
	1633	NS	NS	NS	NS	NS	NS	
2/25	Modified 537.1	NS	NS	NS	NS	NS	NS	
	1633	NS	NS	NS	NS	NS	NS	
3/25	Modified 537.1	NS	NS	NS	NS	NS	NS	
	1633	NS	NS	NS	NS	NS	NS	
4/25	Modified 537.1	NS	NS	NS	NS	NS	NS	
	1633	NS	NS	NS	NS	NS	NS	

Treatment System and Surface Water Locations								
Quarter/Year	**Method**	**MSETINF**	**PLFSEEPINF**	**PLFSYSEFF**	**OLFSEEP8**	**WOMPOC**	**WALPOC**	**NNG01**
2/19	Modified 537.1	Yes	Yes	NS	Yes	Yes	Yes	NS
	1633	NS	NS	NS	NS	NS	NS	NS
4/19	Modified 537.1	Yes	Yes	NS	Yes	Yes	Yes	NS
	1633	NS	NS	NS	NS	NS	NS	NS
3/21	Modified 537.1	Yes	Yes	Yes	Yes	No	No	NS
	1633	NS	NS	NS	NS	NS	NS	NS
4/21	Modified 537.1	Yes	Yes	Yes	Yes	Yes	No	NS
	1633	NS	NS	NS	NS	NS	NS	NS
1/22	Modified 537.1	Yes	Yes	Yes	Yes	No	No	NS
	1633	NS	NS	NS	NS	NS	NS	NS
2/22	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes	NS
	1633	NS	NS	NS	NS	NS	NS	NS
3/22	Modified 537.1	Yes	Yes	Yes	Yes	Yes	No	NS
	1633	NS	NS	NS	NS	NS	NS	NS
4/22	Modified 537.1	Yes	Yes	Yes	Yes	Yes	No	NS
	1633	NS	NS	NS	NS	NS	NS	NS
1/23	Modified 537.1	Yes	Yes	Yes	Yes	Yes	No	NS
	1633	NS	NS	NS	NS	NS	NS	NS
2/23	Modified 537.1	Yes	Yes	Yes	Yes	Yes	Yes	NS
	1633	NS	NS	Yes	Yes	Yes	Yes	NS
3/23	Modified 537.1	Yes	Yes	Yes	Yes	No	No	NS
	1633	NS	NS	Yes	Yes	No	No	NS
4/23	Modified 537.1	NS	NS	Yes	Yes	Yes	No	NS
	1633	NS	NS	Yes	Yes	Yes	No	NS
1/24	Modified 537.1	NS	NS	Yes	Yes	Yes	Yes	NS
	1633	NS	NS	Yes	Yes	Yes	Yes	NS
2/24	Modified 537.1	NS	NS	NS	NS	NS	NS	NS
	1633	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3/24	Modified 537.1	NS	NS	Yes	Yes	No	No	NS
	1633	NS	NS	Yes	Yes	No	No	Yes

Table 5. Summary of Sampled Locations and Analytical Methods (continued)

Treatment System and Surface Water Locations (continued)								
Quarter/Year	**Method**	**MSETINF**	**PLFSEEPINF**	**PLFSYSEFF**	**OLFSEEP8**	**WOMPOC**	**WALPOC**	**NNG01**
4/24	Modified 537.1	NS	NS	NS	NS	NS	NS	NS
	1633	NS	NS	NS	NS	Yes	No	Yes
1/25	Modified 537.1	NS	NS	NS	NS	NS	NS	NS
	1633	NS	NS	NS	NS	Yes	Yes	Yes
2/25	Modified 537.1	NS	NS	NS	NS	NS	NS	NS
	1633	NS	NS	NS	NS	Yes	Yes	Yes
3/25	Modified 537.1	NS	NS	NS	NS	NS	NS	NS
	1633	NS	NS	NS	NS	No	No	Yes
4/25	Modified 537.1	NS	NS	NS	NS	NS	NS	NS
	1633	NS	NS	NS	NS	Yes	No	Yes

Abbreviation:
No = the location was scheduled for sampling but was dry
NS = indicates the location was not scheduled for the indicated sampling (may be method-specific)

A deviation from the PFAS SAP (DOE 2024) occurred during the fourth quarter sampling event in CY 2025. A duplicate sample was inadvertently not collected. The frequency with which duplicate samples are collected still exceeds the typical 5% target for the year, but the intent of the PFAS sampling program is to collect a duplicate sample every quarter.

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/S33207-0.0, Office of Legacy Management, July.

DOE (U.S. Department of Energy), 2023. Interim Directive ID-23-08, "Reduce PFAS Sampling Locations at the Rocky Flats Site, Colorado from 12 to 6, and Collect Split Samples for PFAS Analysis by Two Different Analytical Methods," Office of Legacy Management, October 11.

DOE (U.S. Department of Energy), 2024. *Sampling and Analysis Plan for PFAS at the Rocky Flats Site, Colorado*, LMS/RFS/S33207-1.0, Office of Legacy Management, October.

DOE (U.S. Department of Energy), 2025. *Annual PFAS Monitoring Report Rocky Flats Site, Colorado, Calendar Year 2024*, LMS/RFS/50541, Office of Legacy Management, April.

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, expired July 31, 2025.

Table 6. Analytical Results for Water Samples

Location Code	Location Type	Date Sampled	Sample Code	CAS No.	Analyte	Sample Type	Result (ng/L)	Lab Qualifier	Data Validation Qualifier	Detection Limit (ng/L)	Analytical Method
2784	QC	10/23/2025	RFS01-18.2510017-003	113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	13252-13-6	Perfluoro-2-propoxypropionic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	1691-99-2	N-ethyl perfluorooctanesulfonamidoethanol	FB	2.4	U		2.4	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	2058-94-8	Perfluoroundecanoic acid (PFUnA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	24448-09-7	N-methyl perfluorooctanesulfonamidoethanol	FB	2.4	U		2.4	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	2706-90-3	Perfluoropentanoic acid (PFPeA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	27619-97-2	6:2 fluorotelomersulfonic acid	FB	1.5	U		1.5	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	307-24-4	Perfluorohexanoic acid (PFHxA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	307-55-1	Perfluorododecanoic acid (PFDoA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	31506-32-8	N-methyl perfluorooctanesulfonamide	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	335-67-1	Perfluorooctanoic acid (PFOA)	FB	0.79	J	U	0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	335-76-2	Perfluorodecanoic acid (PFDA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	335-77-3	Perfluorodecanesulfonic acid (PFDS)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	356-02-5	3-Perfluoropropyl propanoic acid	FB	0.97	U		0.97	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	375-22-4	Perfluorobutanoic acid (PFBA)	FB	0.97	U		0.97	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	375-73-5	Perfluorobutanesulfonic acid (PFBS)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	375-85-9	Perfluoroheptanoic acid (PFHpA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	375-95-1	Perfluorononanoic acid (PFNA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	376-06-7	Perfluorotetradecanoic acid (PFTeA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	377-73-1	Perfluoro-3-methoxypropanoic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	39108-34-4	8:2 fluorotelomersulfonic acid	FB	1.5	U		1.5	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	4151-50-2	N-ethyl perfluorooctanesulfonamide	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	754-91-6	Perfluorooctane Sulfonamide (FOSA)	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	FB	0.97	U		0.97	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	79780-39-5	Perfluorododecanesulfonic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	812-70-4	3-Perfluoroheptyl propanoic acid	FB	2.4	U		2.4	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	863090-89-5	Perfluoro-4-methoxybutanoic acid	FB	0.48	U		0.48	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid	FB	2.4	U		2.4	EPA 1633
2784	QC	10/23/2025	RFS01-18.2510017-003	919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	FB	0.48	U		0.48	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	13252-13-6	Perfluoro-2-propoxypropionic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	1691-99-2	N-ethyl perfluorooctanesulfonamidoethanol	F	1.9	U		1.9	EPA 1633

Table 6. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	CAS No.	Analyte	Sample Type	Result (ng/L)	Lab Qualifier	Data Validation Qualifier	Detection Limit (ng/L)	Analytical Method
NNG01	SL	10/23/2025	RFS01-18.2510017-005	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	**17**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	24448-09-7	N-methyl perfluorooctanesulfonamidoethanol	F	1.9	U		1.9	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	**47**		J	0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	**4.6**		J	0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	27619-97-2	6:2 fluorotelomersulfonic acid	F	1.1	U		1.1	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	**3.2**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	307-24-4	Perfluorohexanoic acid (PFHxA)	F	**33**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	307-55-1	Perfluorododecanoic acid (PFDoA)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	31506-32-8	N-methyl perfluorooctanesulfonamide	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	335-67-1	Perfluorooctanoic acid (PFOA)	F	**73**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	335-76-2	Perfluorodecanoic acid (PFDA)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	**13**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	356-02-5	3-Perfluoropropyl propanoic acid	F	0.75	U		0.75	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	375-22-4	Perfluorobutanoic acid (PFBA)	F	**73**		J	0.75	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	**2.9**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	**15**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	375-95-1	Perfluorononanoic acid (PFNA)	F	**1.5**			0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	377-73-1	Perfluoro-3-methoxypropanoic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	39108-34-4	8:2 fluorotelomersulfonic acid	F	1.1	U		1.1	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	4151-50-2	N-ethyl perfluorooctanesulfonamide	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	754-91-6	Perfluorooctane Sulfonamide (FOSA)	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	0.75	U		0.75	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	79780-39-5	Perfluorododecanesulfonic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	812-70-4	3-Perfluoroheptyl propanoic acid	F	1.9	U		1.9	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	863090-89-5	Perfluoro-4-methoxybutanoic acid	F	0.37	U		0.37	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid	F	1.9	U		1.9	EPA 1633
NNG01	SL	10/23/2025	RFS01-18.2510017-005	919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	F	0.37	U		0.37	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	13252-13-6	Perfluoro-2-propoxypropionic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	151772-58-6	Nonafluoro-3,6-dioxaheptanoic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	1691-99-2	N-ethyl perfluorooctanesulfonamidoethanol	F	1.8	U		1.8	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	2058-94-8	Perfluoroundecanoic acid (PFUnA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	24448-09-7	N-methyl perfluorooctanesulfonamidoethanol	F	1.8	U		1.8	EPA 1633

Table 6. Analytical Results for Water Samples (continued)

Location Code	Location Type	Date Sampled	Sample Code	CAS No.	Analyte	Sample Type	Result (ng/L)	Lab Qualifier	Data Validation Qualifier	Detection Limit (ng/L)	Analytical Method
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	2706-90-3	Perfluoropentanoic acid (PFPeA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	2706-91-4	Perfluoropentane Sulfonic acid (PFPS)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	27619-97-2	6:2 fluorotelomersulfonic acid	F	1.1	U		1.1	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	307-24-4	Perfluorohexanoic acid (PFHxA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	307-55-1	Perfluorododecanoic acid (PFDoA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	31506-32-8	N-methyl perfluorooctanesulfonamide	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	335-67-1	Perfluorooctanoic acid (PFOA)	F	0.35	U	J	0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	335-76-2	Perfluorodecanoic acid (PFDA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	335-77-3	Perfluorodecanesulfonic acid (PFDS)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	356-02-5	3-Perfluoropropyl propanoic acid	F	0.70	U		0.70	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	375-22-4	Perfluorobutanoic acid (PFBA)	F	**1.9**	J		0.70	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	375-73-5	Perfluorobutanesulfonic acid (PFBS)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	375-85-9	Perfluoroheptanoic acid (PFHpA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	375-95-1	Perfluorononanoic acid (PFNA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	376-06-7	Perfluorotetradecanoic acid (PFTeA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	377-73-1	Perfluoro-3-methoxypropanoic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	39108-34-4	8:2 fluorotelomersulfonic acid	F	1.1	U		1.1	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	4151-50-2	N-ethyl perfluorooctanesulfonamide	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	68259-12-1	Perfluorononane Sulfonic acid (PFNS)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	72629-94-8	Perfluorotridecanoic Acid (PFTriA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	754-91-6	Perfluoroocatane Sulfonamide (FOSA)	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	756426-58-1	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	757124-72-4	4:2 Fluorotelomer sulfonate (4:2 FTS)	F	0.70	U		0.70	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	763051-92-9	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	79780-39-5	Perfluorododecanesulfonic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	812-70-4	3-Perfluoroheptyl propanoic acid	F	1.8	U		1.8	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	863090-89-5	Perfluoro-4-methoxybutanoic acid	F	0.35	U		0.35	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	914637-49-3	2H,2H,3H,3H-Perfluorooctanoic acid	F	1.8	U		1.8	EPA 1633
WOMPOC	SL	11/13/2025	RFS01-18.2511018-012	919005-14-4	4,8-Dioxa-3H-perfluorononanoic acid (DONA)	F	0.35	U		0.35	EPA 1633

Note:
Bold results signify detections or estimated results.

Abbreviations:
CAS No. = Chemical Abstracts Service registry number
F = field
FB = field blank
J = estimated result
QC = quality control sample (dummy location code)
SL = surface location
U = not detected at the listed detection limit

Table 7. Field Parameter Results for Water Samples

Location Code	Date Sampled	Parameter	Result	Unit
NNG01	10/23/2025	Turbidity	25.4	NTU
NNG01	10/23/2025	Alkalinity, total (as $CaCO_3$)	399	mg/L
NNG01	10/23/2025	Specific conductance	511	µmhos/cm
NNG01	10/23/2025	pH	6.77	s.u.
NNG01	10/23/2025	Temperature	13.407	°C
WOMPOC	11/13/2025	Turbidity	0.71	NTU
WOMPOC	11/13/2025	Alkalinity, total (as $CaCO_3$)	210	mg/L
WOMPOC	11/13/2025	Specific conductance	781	µmhos/cm
WOMPOC	11/13/2025	pH	6.69	s.u.
WOMPOC	11/13/2025	Temperature	11.67	°C

Abbreviations:
$CaCO_3$ = calcium carbonate
mg/L = milligrams per liter
µmhos/cm = micromhos per centimeter
NTU = nephelometric turbidity units
s.u. = standard pH units